shop.ags-automation.de/en

PRECIGRIP MODULAR GRIPPER SYSTEM

Catalogue

Gripping options · Chapters 10.0 to 99.2 · 23 product groups · 2963 items



As of 30 Oct 2026

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00.0 Gripping options

The right solution for every gripping task – from vacuum suction cups, gripper tongs and parallel grippers to part and presence detection. Application examples for every option can be found in the AGS project database at shop.ags-automation.de/en.



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MUG-MRK-GGP-1 / Sample gripper for MRK



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Other markets GT



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DIMENSIONS
All dimensions in mm unless otherwise stated.

SHOP
Availability, CAD data and ordering at shop.ags-automation.de/en

AS OF
30 Oct 2026 · Subject to change and errors.

10.0 Gripper / EOAT Quick Change

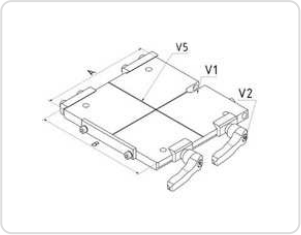


Gripper changing systems are used to connect grippers to handling devices or robots mechanically or even electrically or pneumatically. These can be controlled manually or automatically / pneumatically.

SQUARE MANUAL

GWS manual gripper changing system







ADVANTAGES

- V1 – Mechanical locking on sizes 1 – 2 – 3 also serves as an anti-rotation device for the GGP base plate
- V2 – The clamping levers are used for tool-free clamping of the GGP base plates. All GWS sizes are equipped with them.
- V3 - Simple gripper change
- V4 – 100% reproducible gripper position
- V5 – for easy attachment of the drilling template
- V6 – suitable for articulated and linear robots
- V7 – compatible with other manufacturers
- V8 – With the appropriate GGP gripper base plates, there is no need to take mounting holes for handling into account.

REMARK

- The GWS gripper changeover system allows you to drastically reduce your robot set-up times.
- The illustration above shows our GWS-3 gripper changeover system

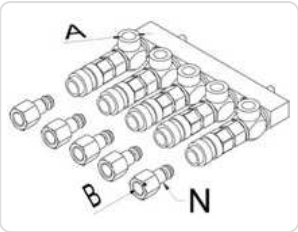
DESIGNATION	ITEM NO.	A	B	C	H	O	WEIGHT	X
GWS-01	1-10-10-02-00-GWS	40	40	1	2,5Kg	1	0.148Kg	GGP-01
GWS-0	1-10-10-04-00-GWS	60	60	1	5Kg	1	0.202Kg	GGP-0
GWS-1	1-10-10-06-00-GWS	100	100	1	10Kg	1	0.418Kg	GGP-1
GWS-2	1-10-10-08-00-GWS	160	160	2	20Kg	1	1.063Kg	GGP-2
GWS-3	1-10-10-10-00-GWS	250	250	2	40Kg	1	3.184Kg	GGP-3

Legend: C = Number of clamping levers H = Handling weight as a guide value (directly on the quick-change) Holding force 10N = 1kg O = Material 1=Aluminium X = suitable for gripper base plate GGP ...

SQUARE MANUAL

LAL Air connection







ADVANTAGES

- V1 - For retrofitting the gripper changing systems
- GWS

INFO

- Scope of delivery:
- as shown (including pneumatic connector PSS and pneumatic plug-in coupling PSK)

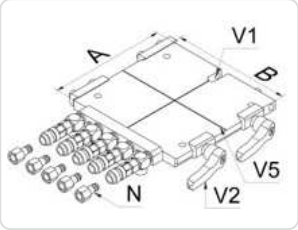
DESIGNATION	ITEM NO.	A	B	M	N	WEIGHT	X
LAL-5-1	1-10-13-10-00-LAL	M5	M5	5	PSS-5	0.145Kg	GWS-1
LAL-7-1	1-10-13-12-00-LAL	M5	M5	7	PSS-5	0.203Kg	GWS-1
LAL-5-2	1-10-13-20-00-LAL	G1/8	G1/8	5	PSS-18	0.413Kg	GWS-2
LAL-7-2	1-10-13-22-00-LAL	G1/8	G1/8	7	PSS-18	0.576Kg	GWS-2
LAL-6-3	1-10-13-30-00-LAL	G1/4	G1/4	6	PSS-14	1.048Kg	GWS-3
LAL-8-3	1-10-13-32-00-LAL	G1/4	G1/4	8	PSS-14		GWS-3

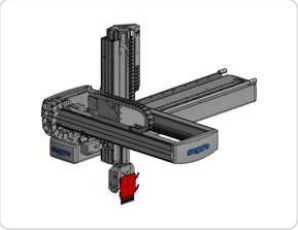
Legend: N = Pneumatic connector PSS.... M = Number of air connections X = suitable for gripper changing system GWS ...

SQUARE MANUAL

GWS-LU - EOAT Quick Change - with air connection







ADVANTAGES

- V1 - Mechanical locking mechanism for sizes 1 - 2 - 3 also serves as an anti-rotation lock for the GGP base plate
- V2 - Toggle screws for all sizes
- V3 - Simple gripper change
- V4 - 100% reproducible position of the gripper
- V5 - for easy attachment of the drilling pattern
- V6 - suitable for articulated arm and linear robots

OPTION

- Adaptation (drilling pattern) to robots or linear robots

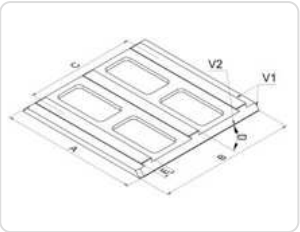
DESIGNATION	ITEM NO.	A	B	H	N	O	WEIGHT	X
GWS-1-LU-5	1-10-11-40-00-GWS	100	100	10kg	PSS-5	5	0.83Kg	GGP-1
GWS-2-LU-5	1-10-11-42-00-GWS	160	160	20kg	PSS-18	5	1.478Kg	GGP-2
GWS-2-LU-5	1-10-11-43-00-GWS	160	160	20kg	PSS-18	7	1.641Kg	GGP-2
GWS-3-LU-6	1-10-11-44-00-GWS	250	250	40kg	PSS-14	6	4.231Kg	GGP-3

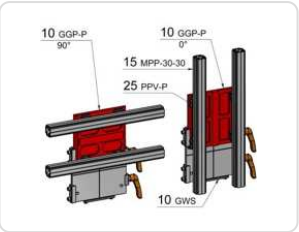
Legend: H = Handling weight as a guide value (directly on the quick-change system) Holding force 10N = 1kg O = Number of air connections X = suitable for gripper base plate GGP ...

SQUARE MANUAL

GGP-P EOAT Base Plate Prism







ADVANTAGES

- V1 - 2 prism systems available
- V2 - choice of 0° or 90° prism orientation relative to the base plate
- V3 - Guide ramps for easy gripper changes
- V4 - No restrictions on the assembly of components (dovetail guide)
- V5 - optional: with pockets to save weight or without pockets for a customised drilling pattern (-E)
- both versions are made from aluminium

REMARK

- The illustration above shows our gripper base plate GGP-3-P22-90-3.
- This component forms the basis for professional gripper construction
- Other versions available on request
- Material = aluminum

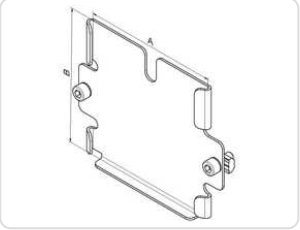
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GGP-0-P13-0-1	1-10-50-00-00-GGP	60	60	-	0°	P13	x	5Kg	1	0.076Kg	GWS-0
GGP-01-P13-0-1	1-10-50-01-00-GGP	40	40	-	0°	P13	x	2,5Kg	1	0.03Kg	GWS-01
GGP-0-P13-0-2	1-10-50-02-00-GGP	60	60	35	0°	P13	x	5Kg	2	0.08Kg	GWS-0
GGP-0-P13-90-2	1-10-50-03-00-GGP	60	60	35	90°	P13	x	5Kg	2	0.08Kg	GWS-0
GGP-0-P22-0-1	1-10-50-04-00-GGP	60	60	-	0°	P22	x	5Kg	1	0.083Kg	GWS-0
GGP-1-P13-0-3	1-10-50-10-00-GGP	100	100	60	0°	P13	x	10Kg	3	0.18Kg	GWS-1
GGP-1-P13-90-3	1-10-50-12-00-GGP	100	100	70	90°	P13	x	10Kg	3	0.177Kg	GWS-1
GGP-1-P22-0-1	1-10-50-13-00-GGP	100	100	-	0°	P22	x	10Kg	1	0.183Kg	GWS-1
GGP-1-P22-0	1-10-50-14-00-GGP	100	100	60	0°	P22	x	10Kg	2	0.221Kg	GWS-1
GGP-2-P22-0-3	1-10-50-20-00-GGP	160	160	120	0°	P22	x	20Kg	3	0.568Kg	GWS-2
GGP-2-P22-90-3	1-10-50-22-00-GGP	160	160	120	90°	P22	x	20Kg	3	0.627Kg	GWS-2
GGP-3-P22-0-3	1-10-50-30-00-GGP	250	250	200	0°	P22	x	40Kg	3	1.422Kg	GWS-3
GGP-3-P22-90 EOAT Groundplate Prism	1-10-50-32-00-GGP	250	250	200	90°	P22	x	40Kg	3	1.49Kg	GWS-3

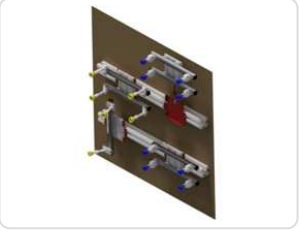
Legend: D = Angle (position of the prism relative to the insertion ramp) F = with pockets for weight reduction (X = yes) M = Handling weight as a guide value Holding force 10N = 1kg N = number of prisms X = suitable for GWS quick-change system ...

SQUARE MANUAL

GWH-VA EOAT Wall Mount







ADVANTAGES

- V1 - mountable on AGS profiles
- V2 - optimum mounting of the gripper
- V3 - outstanding price-performance ratio

REMARK

- Material = stainless steel
- Scope of delivery:
- With fastening screws and sliding blocks

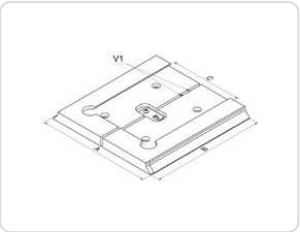
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GWH-1-VA	1-10-60-06-00-GWH	100	100	0.168Kg	GGP-1
GWH-2-VA	1-10-60-08-00-GWH	160	160	0.516Kg	GGP-2
GWH-3-VA	1-10-60-10-00-GWH	250	250	1.141Kg	GGP-3

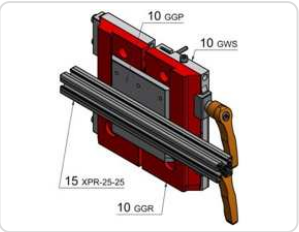
Legend: X = suitable for gripper base plate GGP.....

SQUARE MANUAL

GGR Base Plate Reduction







ADVANTAGES

- V1 - Design improvement: spring-mounted and
- guided for the best possible contour adaptation
- V2 - simple reduction option
- V3 - small gripper base plate GGP to larger
- Quick-change gripper system GWS

REMARK

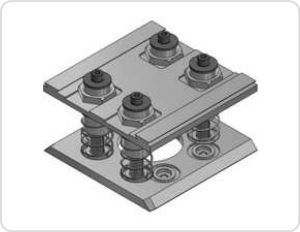
- Material = aluminium

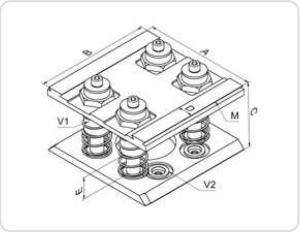
DESIGNATION	ITEM NO.	A	B	C	O	WEIGHT	X
GGR-1-0	1-10-12-50-00-GGR	100	100	60	GGP-0	0.162Kg	GWS-1
GGR-2-1	1-10-12-52-00-GGR	160	160	100	GGP-1	0.431Kg	GWS-2
GGR-3-2	1-10-12-54-00-GGR	250	250	160	GGP-2	1.24Kg	GWS-3

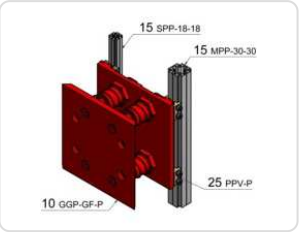
Legend: O = suitable for gripper base plate GGP..... X = suitable for gripper changing system GWS.....

SQUARE MANUAL

GGP-GF-P EOAT Base Plate spring loaded with Prism







ADVANTAGES

- V1 - Ball guides
- V2 - Profile holder 90° rotatable

REMARK

- GGP-GF-P should be used instead of spring-loaded gripper arm GGD or GGV
- if more than 10 of these are used
- Material = aluminium
- The illustration above shows our spring-loaded gripper base plate
- with prisms GGP-2-GF-P22-2

OPTION

- - Stop cylinder for locking
- - Query profile holder spring-loaded

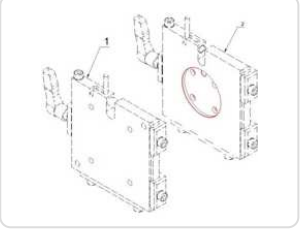
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	WEIGHT	X
GGP-1-GF-P13-2	1-10-11-60-00-GGP	100	100	50	P13	20	2	7kg	2	SPP	0.567Kg	GWS-1
GGP-2-GF-P22-2	1-10-11-64-00-GGP	160	160	85	P22	30	2	16kg	4	MPP	0.567Kg	GWS-2
GGP-3-GF-P22-3	1-10-11-68-00-GGP	250	250	85	P22	30	3	25kg	4	MPP	0.567Kg	GWS-3

Legend: E = Stroke F = Number of prisms K = Handling weight as guide value (directly on the quick-change system) Holding force 10N = 1kg L = Number of guide shafts M = suitable for profile .... X = suitable for gripper changing system GWS.....

SQUARE MANUAL

BAR Hole Pattern Adaptation to Robot





REMARK

- Drilling pattern variant 1 (BAR-E)
- Simple version with countersunk holes for mounting
- to robot flange

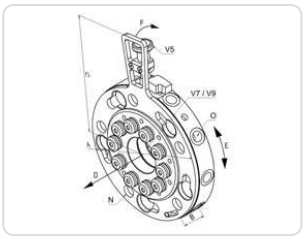
DESIGNATION	ITEM NO.	A	B
BAR-01-0-1-E	1-10-99-02-00-BAR	-01,-0,-1	ADP-1-P
BAR-01-0-1-K	1-10-99-02-02-BAR	-01,-0,-1	ADP-1-P

DESIGNATION	ITEM NO.	A	B
BAR-2-3-E	1-10-99-02-10-BAR	-2,-3	ADP-2-P, ADP-3-P
BAR-01-0-1-E	1-10-99-02-12-BAR	-2,-3	ADP-2-P, ADP-3-P

ROUND MANUAL – BAYONET

GWS-R-K EOAT Quick Change System Round - Fixed







ADVANTAGES

- V1 - The gripper changing system can be used for all robot types
- V2 - Thumb pressure is sufficient to change unit (bayonet lock)
- V3 - Pneumatics are coupled directly
- V4 - Locking bolt for locking the closing position
- V5 - Compatible with Wemo/Gimatic/SAS systems
- V6 - PLAY REDUCTION between gripper base plate
- GGP-R-K and gripper quick-change system GWS-R-K
- due to integrated pressure screw in GGP-R-K
- V7 - Air and vacuum connections are female threaded,
- therefore only the pneumatic push-in fittings can be replaced
- V8 - Locking of the pressure disc by means of grub screw

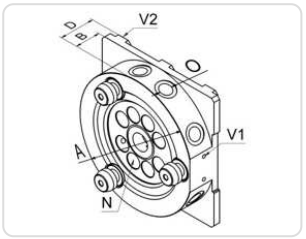
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	O	WEIGHT	X
GWS-R-5-K	1-10-81-10-00-GWS	50	19	60	5kg	30NM	15NM	QC50-B	4	M5	0.2Kg	GGP-R-5
GWS-R-10-K	1-10-81-20-00-GWS	90	18	100	40Kg	100Nm	50Nm	QC90-B	8	G1/8	0.43Kg	GGP-R-10
GWS-R-20-K	1-10-81-30-00-GWS	150	26	137	100Kg	250Nm	100Nm	QC150-B	10	G1/4	1.297Kg	GGP-R-20

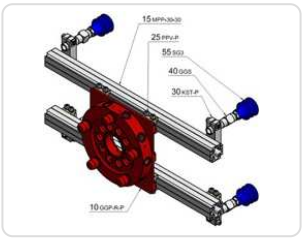
Legend: The load values are static values: D = max. tensile/compressive force E = max. torque F = max. bending moment Conversion 10N = 1kg M = GWS-R-....-K compatible with Gimatic base plate QC....-B (gripper side) N = number of air or vacuum connections O = thread diameter (not conical) X = suitable for round gripper base plate GGP-R

ROUND MANUAL – BAYONET

GGP-R-P EOAT Quick Change System Round with Prism







ADVANTAGES

- V1 - suitable for EST-GGP-R-...-K
- V2 - Gripper construction with direct adaptation of PreciGrip
- profiles possible
- V3 - can be used with GWS-R or GWS-R-K
- V4 - Compatible with Wemo/Gimatic/SAS systems
- V5 - PLAY REDUCTION through integrated
- pressure screw
- V6 - Locking the pressure disc using
- grub screw

REMARK

The image above shows our round gripper base plate with prism GGP-R-10-P13

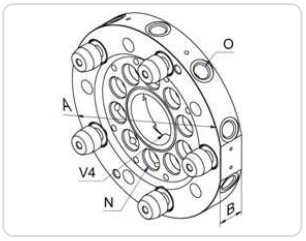
DESIGNATION	ITEM NO.	A	B	C	D	L	M	N	O	WEIGHT	X
GGP-R-5-P13	1-10-81-66-00-GGP	50	18	P13	25	5Kg	30NM	4	M5	0.594Kg	GWS-R-5-K
GGP-R-10-P13	1-10-81-70-00-GGP	90	18	P13	25	40Kg	100NM	8	G1/8	0.384Kg	QC90-A
GGP-R-10-P22	1-10-81-72-00-GGP	90	18	P22	25	40Kg	100NM	8	G1/8	0.38Kg	QC90-A
GGP-R-20-P22	1-10-81-80-00-GGP	150	22	P22	30	100Kg	250NM	10	G1/4	1.268Kg	QC150-A

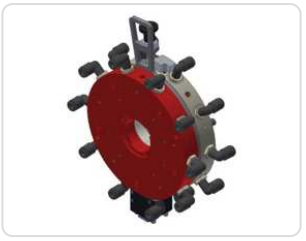
Legend: The load values are static values: C = suitable for profile L = Handling weight tensile/compressive force (F) max. (directly on gripper base plate) M= Torque (MT) max Conversion 10N = 1kg N = Number of air or vacuum connections O = Air connection X = GGP-R-....-P compatible with Gimatic quick coupler QC....-A (robot side)

ROUND MANUAL – BAYONET

GGP-R-K EOAT Quick Change System Round - Loose side







ADVANTAGES

- V1 - With adapter suitable for the AGS gripper system
- V2- Compatible with Wemo/Gimatic/SAS systems
- V3 - PLAY REDUCTION between gripper base plate GGP-R-K and gripper quick-change system GWS-R-K thanks to integrated pressure screw
- V4 - Locking of the pressure disc by means of grub screw

REMARK

- Electrical plug on request
- Extended data sheet on request
- OTHER SIZES ON REQUEST !
- The image above shows our round gripper base plate GGP-R-10-K

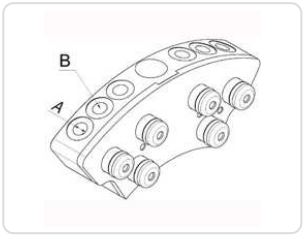
DESIGNATION	ITEM NO.	A	B	K	L	M	N	O	WEIGHT	X
GGP-R-5-K	1-10-79-40-00-GGP	50	15	QC50-A	5kg	30NM	4	M5	0.594Kg	GWS-R-5
GGP-R-10-K	1-10-79-50-00-GGP	90	16	QC90-A	40Kg	100NM	8	G1/8	0.222Kg	GWS-R-10
GGP-R-20-K	1-10-79-60-00-GGP	150	21	QC150-A	100Kg	250NM	10	G1/4	0.872Kg	GWS-R-20

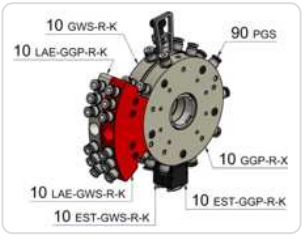
Legend: K = GGP-R-....-K compatible with Gimatic quick changer QC....-A (robot side) The load values are static values: L = Handling weight tension/compression force (F) max. (directly on gripper base plate) M= Torque (MT) max Conversion 10N = 1kg N = Number of air or vacuum connections O = Diameter hose/thread (not conical) X = Suitable for round GWS-R gripper changing system

ROUND MANUAL – BAYONET

LAE-GWS-R-K Air connection extension for GWS-R-K







ADVANTAGES

- V1 - an extension of air/vacuum connections
- for gripper base plate GGP-R-K and
- quick-change system GWS-R-K

REMARK

- Article can only be used together with LAE-GGP-R-K

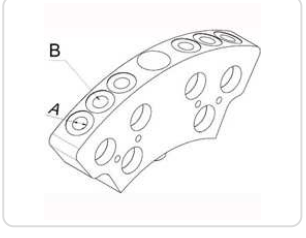
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
LAE-15-GWS-R-20-K	1-10-82-70-00-LAE	G1/4	15	0.45Kg	GWS-R-20-K

Legend: A =Diameter thread (not conical) B = Number of air or vacuum connections X = suitable for quick-change system GWS....

ROUND MANUAL – BAYONET

LAE-GGP-R-K Air connection extension for GGP-R-K







ADVANTAGES

- V1 - an extension of air/vacuum connections
- for gripper base plate GGP-R-K and
- quick-change system GWS-R-K

REMARK

- Article can only be used together with LAE-GWS-R-K

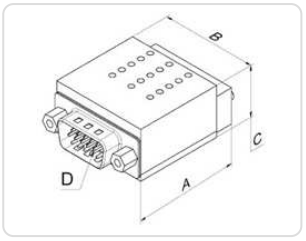
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
LAE-15-GGP-R-20-K	1-10-82-50-00-LAE	G1/4	15	0.29Kg	GGP-R-20-K

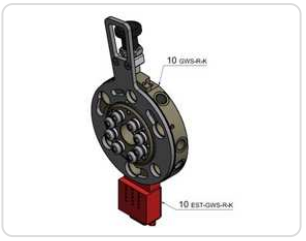
Legend: A =Diameter thread (not conical) B = Number of air or vacuum connections X = suitable for gripper base plate GGP....

ROUND MANUAL – BAYONET

EST-GWS-R-K Electro Connector for EOAT Quick Change







ADVANTAGES

- V1 - gold-plated contacts
- V2 - no pull-off forces during separation
- V3 - when closing the contact, larger position tolerances can be easily bridged
- V4 - Compatible with Wemo/Gimatic/SAS systems
- V5 - fixed contact surface, flush with the surface of the housing, therefore no dirt deposits possible
- V6 - long service life

REMARK

- When used with Wemo/Gimatic/SAS systems, ensure that
- make sure that AGS electrical plugs (EST-GWS-R-K with
- EST-GGP-R-K) can only be used as a set

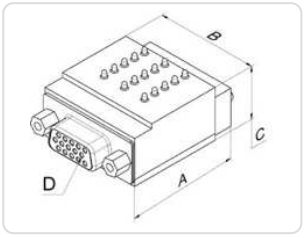
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
EST-GWS-R-K	1-10-81-86-00-EST	35	31	16	15	0.03Kg	GWS-R-10/20

Legend: D = Number of pins X = suitable for ...

ROUND MANUAL – BAYONET

EST-GGP-R-K Electro Connector for EOAT Quick Change GGP





ADVANTAGES

- V1 - gold-plated contacts
- V2 - spring-loaded contacts
- V3 - no pull-off forces during separation
- V4 - when closing the contact, larger position
- tolerances can be easily bridged
- V5 - compatible with Wemo/Gimatic/SAS systems
- V6 - long service life

REMARK

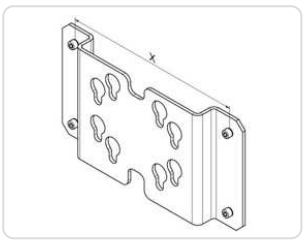
- When used with Wemo/Gimatic/SAS systems, ensure that
- make sure that AGS electrical plug (EST-GWS-R-K with
- EST-GGP-R-K) can only be used as a set

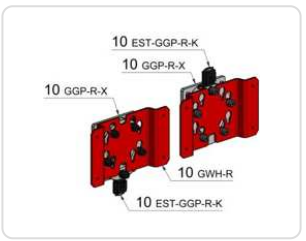
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
EST-GGP-R-K	1-10-81-96-00-EST	35	31	16,5	15	0.03Kg	GGP-R-10/20

ROUND MANUAL – BAYONET

GWH-R EOAT Wall Mount for EOAT Quick Change System Rd - Loose side







ADVANTAGES

- V1 - mountable on AGS profiles
- V2 - optimum mounting of the gripper
- V3 - the GGP-R can be inserted into the wall bracket either upwards or downwards into the wall bracket

REMARK

- Material = stainless steel
- Scope of delivery:
- With fastening screws and sliding blocks

DESIGNATION	ITEM NO.	A	X	WEIGHT
GWH-R-10	1-10-60-80-00-GWH	161	GGP-R-10	

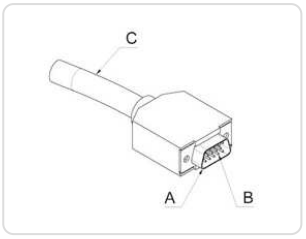
DESIGNATION	ITEM NO.	A	X	WEIGHT
GWH-R-20	1-10-60-90-00-GWH	236	GGP-R-20	1.276Kg

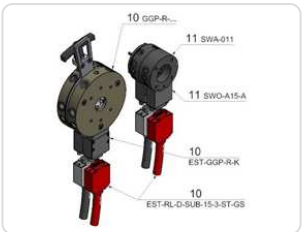
Legend: X = suitable for gripper base plate GGP-R-.....

ROUND MANUAL – BAYONET

EST-RL-ST-GS Plug Connection Male with Robot Cable, EOAT side







ADVANTAGES

- V1 - can be used wherever no defined cable routing is possible
- V2 – with a robot-compatible data cable that is specially developed for torsional and bending stress
- V3 = the cable is resistant to:
- Acids and alkalis, microbes and rotting,
- oxygen and ozone, UV radiation, vibration, solvents
- and largely against oils and greases

REMARK

- - Insert on the gripper side
- - Plug connection Plug
- - Robot data cable 3m
- - Cable plug types:
- - D-SUB, 15-wire
- - Straight cable outlet

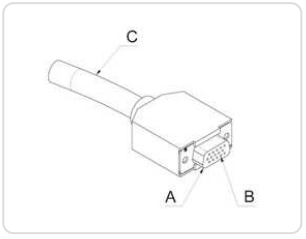
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
EST-RL-D-SUB-15-3-ST-GS	1-97-99-70-00-EST	D-SUB	15	3m	0.47Kg	1,2

Legend: A = Cable connector type: D-SUB 15-p or Bayonet coupling 19-p (BAK) B = Number of wires C = Cable length in metres X = suitable for: 1 = EST-GGP-R-K 2 = SWO-A15-A

ROUND MANUAL – BAYONET

EST-RL-BU-RS Plug Connection Female with Robot Cable, Robot side







ADVANTAGES

- V1 - can be used wherever no defined cable routing is possible
- V2 – with a robot-compatible data cable that is
- specially developed for torsional and bending stress
- V3 = the cable is resistant to:
- Acids and alkalis, microbes and rotting,
- oxygen and ozone, UV radiation, vibration, solvents
- and largely against oils and greases

REMARK

- - Insert on the robot side
- - Plug connection socket
- - Robot data cable 3m
- - Cable plug types:
- - D-SUB, 15-wire
- - Straight cable outlet

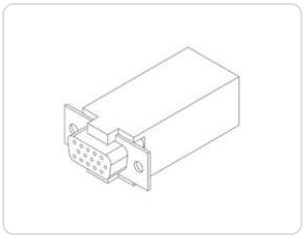
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
EST-RL-D-SUB-15-3-BU-RS	1-97-99-30-00-EST	D-SUB	15	3m	0.47Kg	1,2

Legend: A = Cable connector type: D-SUB 15-p or bayonet coupling 19-p (BAK) B = Number of wires C = Cable length in metres X = suitable for: 1 = EST-GWS-R-K 2 = SWO-A15-K

ROUND MANUAL – BAYONET

EST-K-BU Electro Connector Female with cable





ADVANTAGES

- V1 - Standard components

REMARK

- - Plug connection: Socket with metal housing
- - without cable
- - Article "EST-K-BU-GWS-11-15" D-SUB socket, 15-pin for soldering
- - Article "EST-K-BU-GWS-20-19" Bayonet coupling socket, 19-pin for crimping

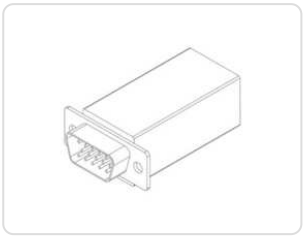
DESIGNATION	ITEM NO.	N	X
EST-K-BU-GWS-11-15	1-97-00-42-00-EST	15	1,2
EST-K-BU-GWS-20-19	1-97-00-52-00-EST	19	3

Legend: N = Number of pins X = suitable for: 1 = EST-GWS-R-K >Link< 2 = EST-GWS-A-11-15 3 = EST-GWS-A-20-19 4 = EST-GWS-A-40-19

ROUND MANUAL – BAYONET

EST-K-ST Electro Connector Male with cable





REMARK

- - Plug connection: male connector with metal housing
- - without cable
- - Article "EST-K-ST-GGP-11-15" D-SUB male connector, 15-pin for soldering
- - Article "EST-K-ST-GGP-20-19" Bayonet coupling pins, 19-pin for crimping

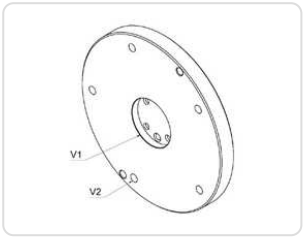
DESIGNATION	ITEM NO.	N	X	A	B	C	WEIGHT
EST-K-ST-GGP-11-15	1-97-00-40-00-EST	15	1,2				
EST-K-ST-GGP-15-GI	1-97-00-46-00-EST			D-SUB	15	1,5m	0.106Kg

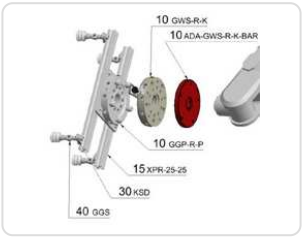
Legend: N = number of pins X = suitable for: 1 = EST-GGP-R-K >Link< 2 = EST-GGP-A-11-15 3 = EST-GGP-A-20-19 4 = EST-GGP-A-40-19

ROUND MANUAL – BAYONET

ADA-GWS-R-K-BAR Adapter for GWS-R-K with hole pattern adaption for Robot







ADVANTAGES

- V1 - Adapter with customised hole pattern adaptation to your robot system
- V2 - Connection for direct mounting of the GWS-R-K gripper changing system on your robot flange

REMARK

- Complex version with fitting holes and holes for
- precise adaptation to robots after providing your
- robot flange data.
- When ordering, please specify your robot system and drawing with the connection dimensions.

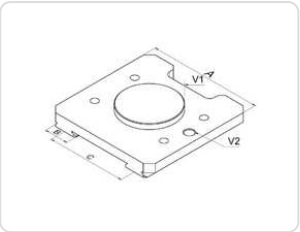
DESIGNATION	ITEM NO.	X
ADA-GWS-R-10-K-BAR	1-10-83-20-00-ADA	GWS-R-10-K
ADA-GWS-R-20-K-BAR	1-10-83-30-00-ADA	GWS-R-20-K

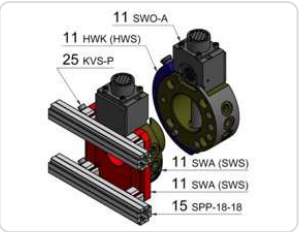
Legend: X = suitable for gripper changing system GWS-.....

ROUND MANUAL – BAYONET

ADA-HWA Adapterplate for Quick Change System - EOAT side







ADVANTAGES

- V1 - Fitting for centring
- V2 - Integration into the PreciGrip system
- V3 - Low weight (aluminium material)

REMARK

- Other versions on request
- Material = Aluminium

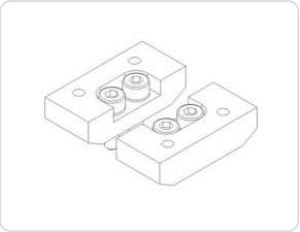
DESIGNATION	ITEM NO.	A	B	C	M	N	WEIGHT	X
ADA-HWA-063-P13-2	1-11-20-10-00-ADA	80	P13	60	5kg	2	0.158Kg	HWA-063
ADA-HWA-080-P22-2	1-11-20-12-00-ADA	100	P22	70	10kg	2	0.306Kg	HWA-080
ADA-HWA-100-P22-3	1-11-20-14-00-ADA	125	P22	100	10kg	3	0.656Kg	HWA-100

Legend: M = Handling weight as guide value Holding force 10N = 1kg N = Number of prisms X = suitable for gripper change hand adapter Mould side HWA ...

ROUND MANUAL – BAYONET

ANP-EST-R-5-K Adaptation EST-R-K to GGP-R-5-K +GWS-R-5-K







ADVANTAGES

- V1 - this adaptation enables secure attachment and coupling of our EST-GGP-R-K and EST-GWS-R-K electrical connectors with the GGP-R-5-K and GWS-R-5-K
- V2 - Material aluminium

REMARK

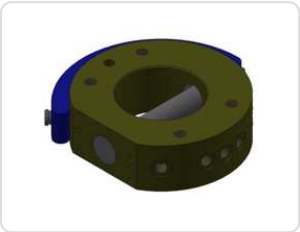
- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. fixing material

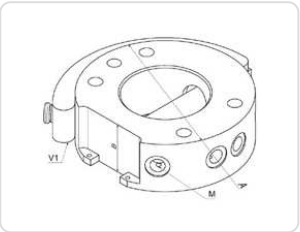
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ANP-EST-R-5-K	1-10-81-99-00-ANP	EST-GGP-R-K	EST-GWS-R-K	GGP-R-5-K	GWS-R-5-K	0.03Kg

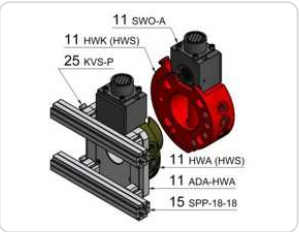
Legend: A = suitable for electrical plug EST-.... B = suitable for electrical plug EST-.... C = suitable for base plate GGP-R... D = suitable for quick coupler GWS-R....

ROUND, MANUAL – HWS – SWIVEL PIN

HWK (HWS) Quick Change Manual - Robot side







OPTION

- Adaptation (drilling pattern) for robots or
- linear robots
- Please order the SWO electrical connector separately; it is not
- included in the scope of delivery

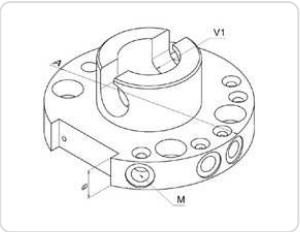
DESIGNATION	ITEM NO.	A	B	M	N	WEIGHT	X
HWK-063-000-000	1-11-16-10-00-HWK	80	30,5	4xG1/8"	16kg	0.4Kg	HWA-063
HWK-080-000-000	1-11-16-12-00-HWK	100	32	5xG1/8"	24kg	0.6Kg	HWA-080
HWK-100-000-000	1-11-16-14-00-HWK	125	38	6xG1/8"	30kg	1.2Kg	HWA-100
HWK-125-000-000	1-11-16-16-00-HWK	160	50	6xG1/8"	54kg	2.4Kg	HWA-125

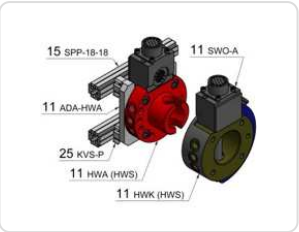
Legend: M = Number and thread diameter of air connection N = maximum payload Holding force 10N = 1kg X = suitable for gripper change hand adapter (tool side) HWA.....

ROUND, MANUAL – HWS – SWIVEL PIN

HWA (HWS) Gripper changeover system – hand gripper side





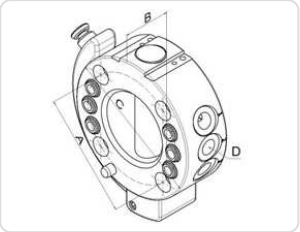


DESIGNATION	ITEM NO.	A	B	M	N	WEIGHT	X
HWA-063-000-000	1-11-18-10-00-HWA	80	16	4xG1/8"	16kg	0.2Kg	HWK-063
HWA-080-000-000	1-11-18-12-00-HWA	100	16	5xG1/8"	24kg	0.3Kg	HWK-080
HWA-100-000-000	1-11-18-14-00-HWA	125	28	6xG1/8"	30kg	0.9Kg	HWK-100
HWA-125-000-000	1-11-18-16-00-HWA	160	28	6xG1/8"	54kg	1.5Kg	HWK-125

ROUND MANUAL – GWS-R-MV – PUSH-PIN *

GWS-R-MV Quick-change tool holder Manual locking Robot side







DESIGNATION	ITEM NO.	A	B	C	D	G	WEIGHT
GWS-R-40-MV	1-10-42-10-00-GWS	40	24	50	2x M5	12kg	0.07Kg
GWS-R-50-MV	1-10-42-14-00-GWS	50	26,5	63	3x M5	24kg	0.25Kg
GWS-R-63-MV	1-10-42-18-00-GWS	63	28,5	80	3x G1/8	28kg	0.42Kg
GWS-R-80-MV	1-10-42-22-00-GWS	80	30	100	4x G1/8	34kg	0.62Kg
GWS-R-100-MV	1-10-42-26-00-GWS	100	38	125	6x G1/8	55kg	1.18Kg
GWS-R-125-MV	1-10-42-30-00-GWS	125	40	160	6x G1/4	68kg	2.42Kg

ROUND MANUAL – GWS-R-MV – PUSH-PIN *

GGP-R-MV Base plate, manual locking, gripper side







OPTION

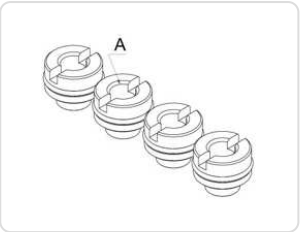
- Suitable electrical plugs available on request

DESIGNATION	ITEM NO.	A	B	C	D	G	WEIGHT
GGP-R-40-MV	1-10-42-50-00-GGP	40	15	50	2x M5	12kg	0.07Kg
GGP-R-50-MV	1-10-42-54-00-GGP	50	16	63	3x M5	24kg	0.12Kg
GGP-R-63-MV	1-10-42-58-00-GGP	63	18	80	3x G1/8	28kg	0.23Kg
GGP-R-80-MV	1-10-42-62-00-GGP	80	18	100	4x G1/8	34kg	0.36Kg
GGP-R-100-MV	1-10-42-66-00-GGP	100	28	125	6x G1/8	55kg	0.87Kg
GGP-R-125-MV	1-10-42-70-00-GGP	125	28	160	6x G1/4	68kg	1.45Kg

ROUND MANUAL – GWS-R-MV – PUSH-PIN *

GER-GGP-R-MV Threaded insert for GGP-R-MV







ADVANTAGES

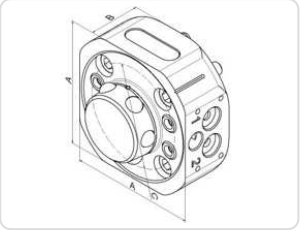
- V1 – This threaded insert can be used to compensate for differences in interface dimensions. This allows the GGP-R-MV base plate (with countersinks for M8 screws) and our ADP-ISO-P adapter plates (with countersinks for M6 screws) to be bolted together.

DESIGNATION	ITEM NO.	A
GER-GWS-R-MV-M6	1-10-42-99-00-GER	M6

AUTOMATIC PRECISION

GWS-A-PR Automatic Precision Robot side



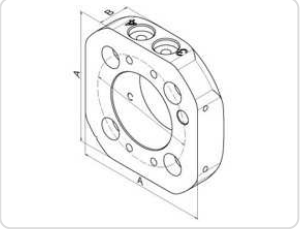


DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT	X
GWS-18-A-PR	1-10-44-10-00-GWS	64	27	50	M5	4	18kg	0.35Kg	GGP-18-A-PR

AUTOMATIC PRECISION

GGP-A-PR Automatic Precision Gripper side



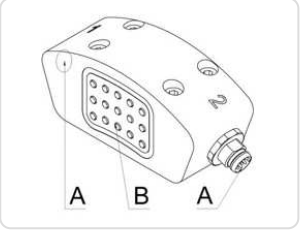


DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT	X
GGP-18-A-PR	1-10-45-10-00-GGP	64	15	50	M5	4	18kg	0.1Kg	GGP-18-A-PR

AUTOMATIC PRECISION

EST-GWS-A-PR Electrical plug for GWS-A-PR





REMARK

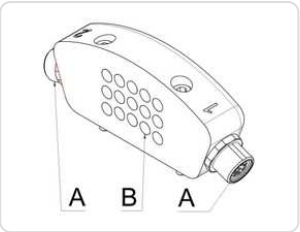
- Electrical plug suitable for robot side

DESIGNATION	ITEM NO.	A	B	X
EST-GWS-18-A-PR	1-10-44-99-00-EST	2x M8	15-p	GWS-18-A-PR

AUTOMATIC PRECISION

EST-GGP-A-PR Electrical plug for GGP-A-PR





REMARK

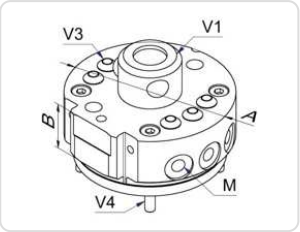
- Electric plug suitable for gripper side

DESIGNATION	ITEM NO.	A	B	X
EST-GGP-18-A-PR	1-10-45-99-00-EST	2x M8	15-p	GGP-18-A-PR

ROUND AUTOMATIC

SWK (SWS) gripper changing system head robot side







ADVANTAGES

- V1 - Self-retaining locking system
- V2 - Functional parts made of hardened steel
- V3 - Integrated air feed-through
- V4 - ISO flange pattern

REMARK

- Operating principle: piston actuated balls
- Operating pressure range: from 4.5 bar to 6 bar
- Maintenance: permanently lubricated, relubrication after
- 2 million cycles
- Ambient temperature: from 5°C to 60°C
- Material: Functional parts made of hardened steel
- OTHER SIZES AND ACCESSORIES
- ON REQUEST !

OPTION

- Adaptation (drilling pattern) to robot or linear robot
- Interrogation for interlocking
- Please order SWO electrical plug separately, not
- included in the scope of delivery

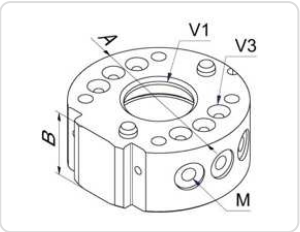
DESIGNATION	ITEM NO.	A	B	M	N	WEIGHT	X
SWK-011-000-000	1-11-10-06-00-SWK	50	16	6xM5	16Kg	0.13Kg	SWA-011
SWK-021-000-000	1-11-10-11-00-SWK	95	22,1	8xG1/8"	25Kg	0.13Kg	SWA-021
SWK-060-000-000	1-11-10-20-00-SWK	130	24	8xG1/8"	75Kg	1.3Kg	SWA-060

Legend: M = Number and thread diameter of air connection N = maximum payload Holding force 10N = 1kg X = suitable for automatic gripper base plate SWA.....

ROUND AUTOMATIC

SWA (SWS) Quick Change System Piston Stroke Control







ADVANTAGES

- V1 - Self-retaining locking system
- V2 - Functional parts made of hardened steel
- V3 - Integrated air feed-through
- V4 - ISO flange pattern

REMARK

- Operating principle: balls actuated via pistons
- Operating pressure range: from 4.5 bar to 6 bar
- Maintenance: permanently lubricated, relubrication after
- 2 million cycles
- Ambient temperature: from 5°C to 60°C
- Material: functional parts made of hardened steel
- OTHER SIZES AND ACCESSORIES ON REQUEST !

OPTION

- - SWO electrical connectors available on request

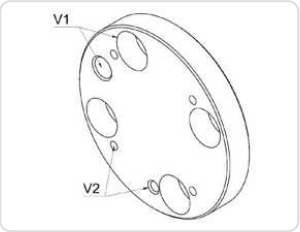
DESIGNATION	ITEM NO.	A	B	M	N	WEIGHT	X
SWA-011-000-000	1-11-12-06-00-SWA	50	21	6xM5	16Kg	0.09Kg	SWK-011
SWA-021-000-000	1-11-12-10-00-SWA	95	24	8xG1/8"	25Kg	0.3Kg	SWK-021
SWA-040-000-000	1-11-12-14-00-SWA	115	27	8xG1/8	50kg	0.6Kg	SWK-040
SWA-060-000-000	1-11-12-20-00-SWA	130	23	8xG1/8	75kg	0.7Kg	SWK-060
SWA-076-000-000	1-11-12-24-00-SWA	160	31	5xG3/8"	100kg	1.4Kg	SWK-076

Legend: M = Number and thread diameter of air connection N = maximum payload Holding force 10N = 1kg X = suitable for automatic gripper changing system SWK.....

ROUND AUTOMATIC

ADA-SWK-BAR Adapter for SWK with hole pattern adaptation to robot







ADVANTAGES

- V1 - Adapter with customised hole pattern adaptation to your robot system
- V2 - Connection for direct mounting of the Schunk SWK gripper changing system head robot side to your robot flange

REMARK

- Complex version with fitting holes and holes for
- precise adaptation to robots after provision of your
- robot flange data

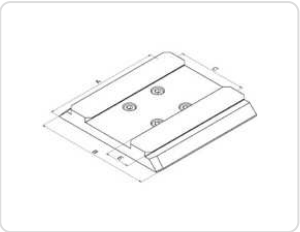
DESIGNATION	ITEM NO.	X
ADA-SWK-011-BAR	1-11-14-56-00-ADA	SWK-011
ADA-SWK-040-BAR	1-11-14-66-00-ADA	SWK-040
ADA-SWK-060-BAR	1-11-14-70-00-ADA	SWK-060

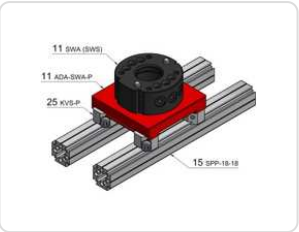
Legend: X = suitable for Schunk SWK gripper changing system head robot side SWK-.....

ROUND AUTOMATIC

ADA-SWA-P Adapterplate for SWA with Prism







ADVANTAGES

- V1 - 2 prism systems available
- V2 - Insertion chamfers for easy
- gripper change
- V3 - No restriction when mounting
- components (dovetail guide)
- V4 - Low weight (aluminium material)

REMARK

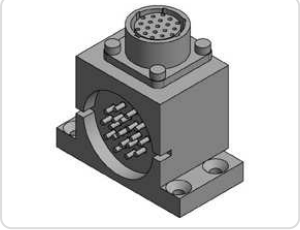
- Other versions on request
- Material = aluminium

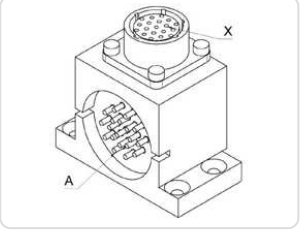
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	X	WEIGHT
ADA-SWA-011-P13-2	1-11-14-06-00-ADA	100	100	60	0°	P13	10kg	2	SWA-011	
ADA-SWA-021-P22-3	1-11-14-10-00-ADA	160	160	120	0°	P22	20kg	3	SWA-021	
ADA-SWA-040-P22-3	1-11-14-16-00-ADA	160	160	120	0°	P22	20kg	3	SWA-040	1.016Kg
ADA-SWA-060-P22-3	1-11-14-20-00-ADA	250	250	200	0°	P22	40kg	3	SWA-060	
ADA-SWA-076-P22-3	1-11-14-24-00-ADA	250	250	200	0°	P22	40kg	3	SWA-076	

Legend: D = Angle (prism position to insertion bevel) M = Handling weight as guide value Holding force 10N = 1kg N = Number of prisms X = suitable for automatic SWA gripper changing system ...

ROUND AUTOMATIC

SWO-A Electric plug for Quick Change System







ADVANTAGES

- V1 - suitable for quick-change system SWA...

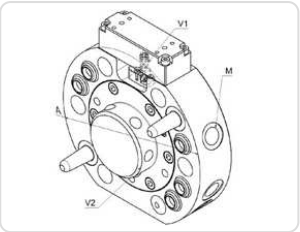
DESIGNATION	ITEM NO.	A	X
SWO-A15-A	1-11-98-11-00-SWO	15	EST-RL-D-SUB-15-3-ST-GS
SWO-K19-A	1-11-98-21-00-SWO	19	EST-RL-BAK-19-3-ST-GS
SWO-R19-A	1-11-98-31-00-SWO	19	EST-RL-BAK-19-3-ST-GS

Legend: A = Number of pins X = suitable for electrical connector with robot cable EST-RL-ST-GS

ROUND AUTOMATIC

SWK-ABF (SWS) Quick Change System Piston Stroke Control







ADVANTAGES

- V1 - Including piston stroke control and
- NHS mounting kit (IN attachment)
- V2 - Self-retaining locking system
- V3 - Functional parts made of hardened steel
- V4 - Integrated air feed-through
- V5 - ISO flange pattern

REMARK

- - The piston stroke control is used for the safe monitoring
- of the end position of the locking mechanism on the SWK
- - Operating principle: balls actuated by piston
- - Operating pressure range: from 4.5 bar to 6 bar
- - Maintenance: permanently lubricated, relubrication after
- 2 million cycles
- - Ambient temperature: from 5°C to 60°C
- - Material: functional parts made of hardened steel
- OTHER SIZES AND ACCESSORIES
- ON REQUEST !
- Example:
- SWK-011-000-000-SIP-IN041
- SW - Gripper changing system
- K - Head (robot side)
- 011 - Size
- 000-000 - unused options such as electric O.
- SIP - equipped with piston stroke control
- IN041 – two inductive proximity switches, 3-wire, PNP, plug M8 incl.
- SWK-40Q-000-000-SG
- (Q) - Version with integrated piston stroke monitoring
- SG – the SWK-ABF quick changer is equipped as standard with inductive
- proximity switches, the sensors are pre-adjusted

OPTION

- Please order electrical plug separately, not
- included in the scope of delivery

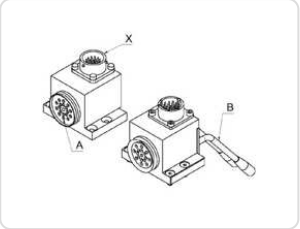
DESIGNATION	ITEM NO.	A	B	M	N	WEIGHT	X
SWK-011-000-000-SIP-IN041	1-11-10-56-00-SWK	50	16	6xM5	16kg	0.14Kg	SWA-011
SWK-021-000-000-SIP-IN041	1-11-10-60-00-SWK	95	22	8xG1/8"	25kg	0.55Kg	SWA-020
SWK-040Q-000-000-SG	1-11-10-66-00-SWK	115	35	8xG1/8"	50kg	1.35Kg	SWA-040
SWK-076-000-000-SG	1-11-10-74-00-SWK	160	37	5xG3/8"	100kg	2.35Kg	SWA-076

Legend: M = Number and thread diameter of air connection N = maximum payload Holding force 10N = 1kg X = suitable for automatic gripper base plate SWA.....

ROUND AUTOMATIC

SWO-K Electric plug for Quick Change System







ADVANTAGES

- V1 - suitable for quick-change system
- SWK and SWK-ABF

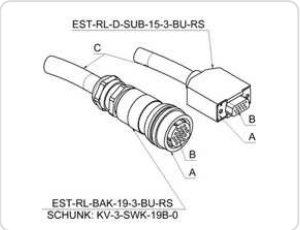
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
EST-GWS-A-11-15	1-11-98-10-00-SWO	15	---	0.02Kg	EST-RL-D-SUB-15-3-BU-RS
SWO-K19-K	1-11-98-20-00-SWO	19	---		EST-RL-BAK-19-3-BU-RS
SWO-R19-K	1-11-98-30-00-SWO	19	---		EST-RL-BAK-19-3-BU-RS
SWO-R19W-K	1-11-98-32-00-SWO	15(19)	2		EST-RL-BAK-19-3-BU-RS

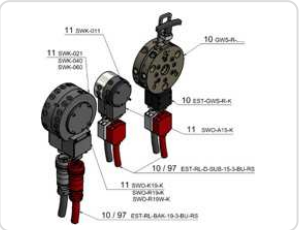
Legend: A = Number of pins B = direct, straight sensor connection integrated (right-angled sensor connection available on request) X = suitable for electrical connector with robot cable EST-RL-BU-RS

ROUND MANUAL – BAYONET

EST-RL-BU-RS Plug Connection Female with Robot Cable, Robot side







ADVANTAGES

- V1 - can be used wherever no defined cable routing is possible
- V2 – with a robot-compatible data cable that is
- specially developed for torsional and bending stress
- V3 = the cable is resistant to:
- Acids and alkalis, microbes and rotting,
- oxygen and ozone, UV radiation, vibration, solvents
- and largely against oils and greases

REMARK

- - Insert on the robot side
- - Plug connection socket
- - Robot data cable 3m
- - Cable plug types:
- - D-SUB, 15-wire
- - Straight cable outlet

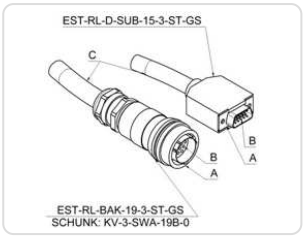
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
EST-RL-D-SUB-15-3-BU-RS	1-97-99-30-00-EST	D-SUB	15	3m	0.47Kg	1,2
EST-RL-BAK-9-3-BU-RS	1-97-99-40-00-EST	BAK	19	3m		3,4,5

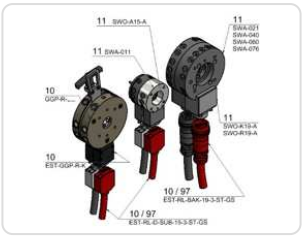
Legend: A = Cable connector type: D-SUB 15-p or bayonet coupling 19-p (BAK) B = Number of wires C = Cable length in metres X = suitable for: 1 = EST-GWS-R-K 2 = SWO-A15-K

ROUND AUTOMATIC

EST-RL-ST-GS Electrical connector with robot cable - plug on gripper side







ADVANTAGES

- V1 - can be used wherever no defined cable routing is possible
- V2 - with a robot-compatible data cable that is specially developed for torsional and bending stress
- V3 - the cable is resistant to:
- Acid and alkalis, microbes and rotting,
- oxygen and ozone, UV radiation, vibration, solvents
- and largely against oils and greases

INFO

- Description:
- - Use on the gripper side
- - Plug connection Plug
- - Robot data cable 3m
- - Cable connector types:
- - D-SUB, 15-wire or optionally
- Bayonet coupling (BAK), 19-core
- - Straight cable outlet
- EST-RL-BAK-19-3-ST-GS is the SCHUNK cable connector: KV-3-SWA-19B-0

DESIGNATION	ITEM NO.	A	B	C	X
EST-RL-BAK-19-3-ST-GS	1-97-99-80-00-EST	BAK	19	3m	3,4

Legend: A = Cable connector type: D-SUB 15-p or bayonet coupling 19-p (BAK) B = Number of wires C = Cable length in metres X = suitable for: 1 = EST-GGP-R-K 2 = SWO-A15-A 3 = SWO-K19-A 4 = SWO-R19-A

GRIPPER-CHANGE SYSTEM

GWS-A – Robot page – Automatic



DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
GWS-003-A	1-10-74-10-00-GWS	55	22	M3	4	190Nm	100Nm	5000N	31,5-4-M5	3kg
GWS-010-A	1-10-74-16-00-GWS	72	31	M5	6	225Nm	390Nm	6000N	50-4-M6	10Kg
GWS-016-A	1-10-74-22-00-GWS	80	31	M5	6	260Nm	770Nm	6000N	50-4-M6	16Kg
GWS-030-A	1-10-74-28-00-GWS	90	31	M5	6	300Nm	815Nm	6000N	50-4-M6	30kg

GRIPPER-CHANGE SYSTEM

GWS-MV – Robot page – Manual



DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
GWS-003-MV	1-10-74-50-00-GWS	55	22	M3	4	190Nm	100Nm	5000N	31,5-4-M5	3kg

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
GWS-010-MV	1-10-74-56-00-GWS	72	31	M5	6	225Nm	390Nm	6000N	50-4-M6	10kg
GWS-016-MV	1-10-74-62-00-GWS	80	31	M5	6	260Nm	770Nm	6000N	50-4-M6	16kg
GWS-030-MV	1-10-74-68-00-GWS	90	31	M5	6	300Nm	815Nm	6000N	50-4-M6	30kg

GRIPPER-CHANGE SYSTEM

GGP-A-MV – Gripper side



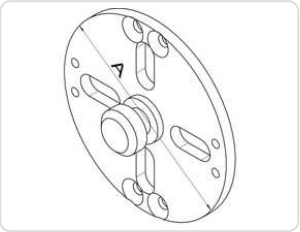


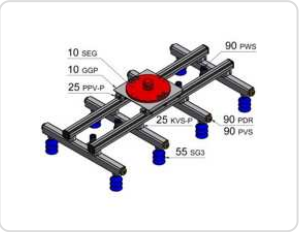
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
GGP-003-A-MV	1-10-75-10-00-GGP	55	22	M3	4	190Nm	100Nm	5000N	31.5-4-M5	3kg
GGP-010-A-MV	1-10-75-16-00-GGP	72	31	M5	6	225Nm	390Nm	6000N	50-4-M6	10kg
GGP-016-A-MV	1-10-75-22-00-GGP	80	31	M5	6	260Nm	770Nm	6000N	50-4-M6	16kg
GGP-030-A-MV	1-10-75-28-00-GGP	90	31	M5	6	300Nm	815Nm	6000N	50-4-M6	30kg

SEPRO SYSTEM

SEG SEPRO Base Plate







ADVANTAGES

- V1 - SEPRO base plates for connecting the gripper to the SEPRO robot flange
- V2 - our GGP-P-S base plates enable simple integration of the SEPRO base plates into our PreciGrip system

REMARK

- the picture above shows the Sepro gripper base plate SEG-90

DESIGNATION	ITEM NO.	A	WEIGHT
SEG-90	1-10-95-02-00-SEG	90	0.23Kg
SEG-120	1-10-95-04-00-SEG	120	
SEG-135	1-10-95-06-00-SEG	135	
SEG-146	1-10-95-08-00-SEG	146	

ADAPTER PLATE - SYSTEM

ADP-P adapter plate with prism





REMARK

To order the drilling pattern adaptation, please place your order here:

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT
ADP-1-P13-3	1-10-56-10-00-ADP	100	100	P13	70	3	7,5	10kg	0.232Kg
ADP-2-P22-3	1-10-56-14-00-ADP	160	160	P22	120	3	7,5	20kg	0.805Kg

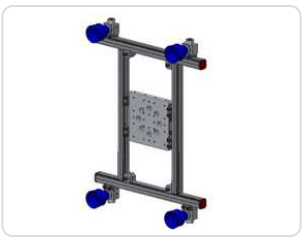
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT
ADP-3-P22-3	1-10-56-18-00-ADP	250	250	P22	200	3	10	40kg	1.9Kg

Legend: G = Handling weight (guide value) Holding force: 10 N = 1 kg

ADAPTER PLATE - SYSTEM

ADP Adapter Plate – System

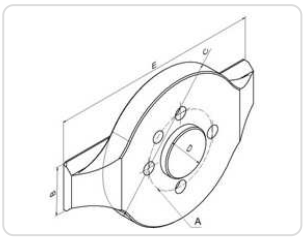
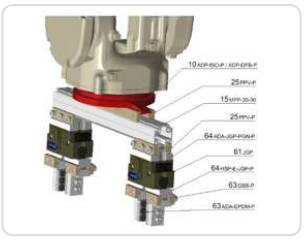




DESIGNATION	ITEM NO.	A	B	C
ADP-SYS-1-P13	1-10-72-12-00-ADP	100	100	P13
ADP-SYS-2-P22	1-10-72-22-00-ADP	160	160	P22

ADAPTER PLATES

ADP-ISO-P Adapter Plate with ISO Flange Pattern and Prism

ADVANTAGES

- V1 - adapter plate with holes for direct mounting on robot flange with ISO flange pattern to DIN ISO 9409
- V2 - for gripper construction with direct adaptation of PreciGrip profiles/ AGS gripper parts from our PreciGrip modular system

REMARK

- other sizes on request
- including mounting material
- The illustrations above are only an example, the originals
- may differ in contour from the pictures
- Please use the entire length
- of the clamping prism

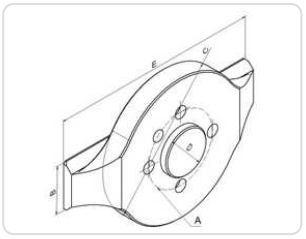
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
ADP-ISO31.5-P13	1-10-64-09-00-ADP	31,5	P13	Ø60	20	90	0.078Kg
ADP-ISO31.5-P22	1-10-64-10-00-ADP	31,5	P22	Ø60	20	90	0.108Kg
ADP-ISO40-P13	1-10-64-17-00-ADP	40	P13	Ø60	25	90	0.105Kg
ADP-ISO40-P22	1-10-64-18-00-ADP	40	P22	Ø60	25	90	0.119Kg
ADP-ISO50-P13	1-10-64-25-00-ADP	50	P13	Ø63	31,5	100	0.118Kg
ADP-ISO50-P22	1-10-64-26-00-ADP	50	P22	Ø63	31,5	100	0.135Kg
ADP-ISO63-P13	1-10-64-33-00-ADP	63	P13	Ø84	40	120	0.18Kg
ADP-ISO63-P22	1-10-64-34-00-ADP	63	P22	Ø84	40	120	0.2Kg

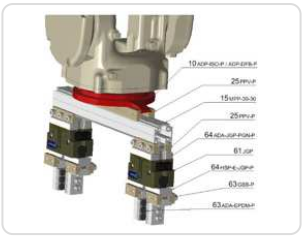
Legend: A = Bolt circle size according to DIN ISO-9409 D = Fit for centring

ADAPTER PLATES

ADP-DFB-P Adapter plate with various Flange Pattern and Prism







ADVANTAGES

- V1 - adapter plate with holes for direct mounting on various robot flanges
- V2 - for gripper construction with direct adaptation of PreciGrip profiles/ AGS gripper parts from our PreciGrip modular system

REMARK

- other sizes on request
- including mounting material
- The illustrations above are only an example, the originals
- may differ in contour from the pictures
- Please use the entire length
- of the clamping prism

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT	X
ADP-DFB-31,5-5-12-P22	1-10-66-20-00-ADP	31,5	P22	60	12	100	0.105Kg	1
ADP-DFB-56-4-62-P22	1-10-66-40-00-ADP	56	P22	114	62	160	0.407Kg	2
ADP-DFB-ReBeL-P13	1-10-67-10-00-ADP		P13			100	0.105Kg	3
ADP-DFB-Delta-K-P13	1-10-67-20-00-ADP		P13			100	0.105Kg	4
ADP-DFB-Delta-G-P13	1-10-67-30-00-ADP		P13			100	0.105Kg	5
ADP-DFB-P-GRR-P13	1-10-67-40-00-ADP		P13			100	0.105Kg	6
ADP-DFB-P-GRW-P13	1-10-67-50-00-ADP		P13			100	0.105Kg	7

Legend: A = Bolt circle size D = Fit for centring X = suitable for robot flange: 1 = Yaskawa GP7 / GP8 2 = Yaskawa GP12 / GP25 3 = Igus ReBeL 4 = Igus Delta-K 5 = Igus Delta-G 6 = Igus P-GRR 7 = Igus P-GRW

15.0 Profiles



We basically differentiate between:

PreciGrip - Theprofile system where no sliding block is required. The smallest profile is 18×10mm with a P13 prism, the largest is 60mmx60mm with a P22 prism - components can be easily inserted at a later date. Various functional profiles are also available here, e.g. to produce extra-long clamping pieces or gripper arms.

Sliding block system - A sliding block is always required here to attach components to the profile. The smallest profile is 18 × 10 mm and the largest profile is 80 × 40 mm. The same sliding block is used for all sizes.

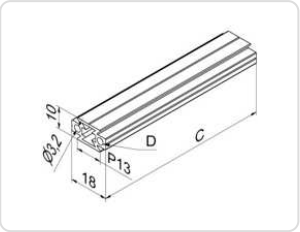
The two systems can be fully combined with each other!

Application examples

SPP - P13 / PROFILE

SPP-18-10 Small Prism Profile







ADVANTAGES

- V1 – 2 prisms available
- V2 – tube cross-section
- V3 – 2 front holes for M4 thread

REMARK

- All custom lengths are cut to size as required
- Silver anodised finish
- Custom lengths available on request; maximum length 6000mm
- Note:
- - Cheaper under 2m for EU delivery

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - please add the required lengths and order with item
- 1-15-80-00-01-SPP
- as a single item
- - number of saw cuts 9-95-90-91-00-ZUS
- order accordingly
- - in the comments field of the order overview
- enter the quantity and individual length
- example order for:
- two SPP-18-10-P13 profiles in the following lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items ordered are:
- 1-15-80-00-01-SPP 929 pieces (519mm+410mm)
- 9-95-90-91-00-ZUS 2 pieces, saw-cut

STATIC VALUES

- A = 0.80 cm^2
- Ex = 0.90 cm
- Ey = 0.50 cm
- Ix = 0.08 cm^4
- Iy = 0.21 cm^4
- Wx = 0.15 cm^3
- Wy = 0.24 cm^3
- Weight = 0.217 kg/m
- Tensile strength 205 N/mm^2

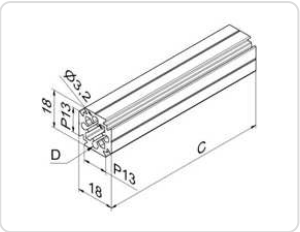
DESIGNATION	ITEM NO.	C	D	WEIGHT
SPP-18-10-P13-0001	1-15-80-00-01-SPP	1	M4	
SPP-18-10-P13-500	1-15-80-00-05-SPP	500	M4	0.107Kg
SPP-18-10-P13-1000	1-15-80-00-10-SPP	1000	M4	0.213Kg
SPP-18-10-P13-1500	1-15-80-00-15-SPP	1500	M4	0.32Kg
SPP-18-10-P13-2000	1-15-80-00-20-SPP	2000	M4	0.41Kg
SPP-18-10-P13-6000	1-15-80-00-39-SPP	6000	M4	1.278Kg
SPP-18-10-P13-50	1-15-81-02-05-SPP	50	M4	0.011Kg
SPP-18-10-P13-100	1-15-81-02-10-SPP	100	M4	0.022Kg
SPP-18-10-P13-150	1-15-81-02-15-SPP	150	M4	0.033Kg
SPP-18-10-P13-200	1-15-81-02-20-SPP	200	M4	0.043Kg
SPP-18-10-P13-250	1-15-81-02-25-SPP	250	M4	0.054Kg
SPP-18-10-P13-300	1-15-81-02-30-SPP	300	M4	0.065Kg
SPP-18-10-P13-350	1-15-81-02-35-SPP	350	M4	0.076Kg
SPP-18-10-P13-400	1-15-81-02-40-SPP	400	M4	0.087Kg
SPP-18-10-P13-450	1-15-81-02-45-SPP	450	M4	0.098Kg
SPP-18-10-P13-550	1-15-81-02-55-SPP	550	M4	0.119Kg
SPP-18-10-P13-600	1-15-81-02-60-SPP	600	M4	0.13Kg
SPP-18-10-P13-650	1-15-81-02-65-SPP	650	M4	0.141Kg
SPP-18-10-P13-700	1-15-81-02-70-SPP	700	M4	0.152Kg
SPP-18-10-P13-750	1-15-81-02-75-SPP	750	M4	0.163Kg
SPP-18-10-P13-800	1-15-81-02-80-SPP	800	M4	0.174Kg
SPP-18-10-P13-850	1-15-81-02-85-SPP	850	M4	0.184Kg
SPP-18-10-P13-900	1-15-81-02-90-SPP	900	M4	0.195Kg
SPP-18-10-P13-950	1-15-81-02-95-SPP	950	M4	0.206Kg
SPP-18-10-P13-1050	1-15-81-03-05-SPP	1050	M4	0.228Kg
SPP-18-10-P13-1100	1-15-81-03-10-SPP	1100	M4	0.239Kg
SPP-18-10-P13-1150	1-15-81-03-15-SPP	1150	M4	0.25Kg
SPP-18-10-P13-1200	1-15-81-03-20-SPP	1200	M4	0.26Kg
SPP-18-10-P13-1250	1-15-81-03-25-SPP	1250	M4	0.271Kg
SPP-18-10-P13-1300	1-15-81-03-30-SPP	1300	M4	0.282Kg
SPP-18-10-P13-1350	1-15-81-03-35-SPP	1350	M4	0.293Kg
SPP-18-10-P13-1400	1-15-81-03-40-SPP	1400	M4	0.304Kg
SPP-18-10-P13-1450	1-15-81-03-45-SPP	1450	M4	0.315Kg
SPP-18-10-P13-1550	1-15-81-03-55-SPP	1550	M4	0.336Kg
SPP-18-10-P13-1600	1-15-81-03-60-SPP	1600	M4	0.347Kg
SPP-18-10-P13-1650	1-15-81-03-65-SPP	1650	M4	0.358Kg
SPP-18-10-P13-1700	1-15-81-03-70-SPP	1700	M4	0.369Kg
SPP-18-10-P13-1750	1-15-81-03-75-SPP	1750	M4	0.38Kg
SPP-18-10-P13-1800	1-15-81-03-80-SPP	1800	M4	0.391Kg
SPP-18-10-P13-1850	1-15-81-03-85-SPP	1850	M4	0.401Kg
SPP-18-10-P13-1900	1-15-81-03-90-SPP	1900	M4	0.412Kg
SPP-18-10-P13-1950	1-15-81-03-95-SPP	1950	M4	0.423Kg

Legend: C = Dimensions in mm D = for thread .....

SPP - P13 / PROFILE

SPP-18-18 Small Prism Profile







ADVANTAGES

- V1 – 4 prisms available
- V2 – 4 front holes for M4 thread
- V3 – pipe cross-section
- V4 – new design

REMARK

- All custom lengths are cut to size as required
- Silver anodised finish
- Custom lengths available on request; maximum length 6000mm
- Note:
- - Cheaper for EU delivery under 2m

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - Please add the required lengths and order with item
- 1-15-80-00-23-SPP
- as a single item
- - Order the number of saw cuts 9-95-90-91-00-ZUS
- accordingly
- - Enter the quantities and individual lengths in the comments field of the order overview
- Example order for:
- Two SPP-18-18-P13 profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items to order:
- 929 pieces 1-15-80-00-23-SPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 1.506 cm²
- Ex = 0.90 cm
- Ey = 0.90 cm
- Ix = 0.47 cm⁴
- Iy = 0.47 cm⁴
- Wx = 0.51 cm³
- Volume = 0.51 cm³
- Weight = 0.408 kg/m
- Tensile strength 205 N/mm²

DESIGNATION	ITEM NO.	C	D	WEIGHT
SPP-18-18-P13-0001	1-15-80-00-23-SPP	1	M4	0.003Kg
SPP-18-18-P13-500	1-15-80-00-25-SPP	500	M4	0.172Kg
SPP-18-18-P13-1000	1-15-80-00-30-SPP	1000	M4	0.343Kg
SPP-18-18-P13-1500	1-15-80-00-35-SPP	1500	M4	0.516Kg
SPP-18-18-P13-2000	1-15-80-00-40-SPP	2000	M4	0.686Kg
SPP-18-18-P13-6000	1-15-80-00-49-SPP	6000	M4	2.058Kg
SPP-18-18-P13-50	1-15-81-05-05-SPP	50	M4	0.02Kg
SPP-18-18-P13-100	1-15-81-05-10-SPP	100	M4	0.041Kg
SPP-18-18-P13-150	1-15-81-05-15-SPP	150	M4	0.061Kg
SPP-18-18-P13-200	1-15-81-05-20-SPP	200	M4	0.082Kg
SPP-18-18-P13-250	1-15-81-05-25-SPP	250	M4	0.102Kg
SPP-18-18-P13-300	1-15-81-05-30-SPP	300	M4	0.122Kg
SPP-18-18-P13-350	1-15-81-05-35-SPP	350	M4	0.143Kg
SPP-18-18-P13-400	1-15-81-05-40-SPP	400	M4	0.163Kg
SPP-18-18-P13-450	1-15-81-05-45-SPP	450	M4	0.184Kg
SPP-18-18-P13-550	1-15-81-05-55-SPP	550	M4	0.224Kg

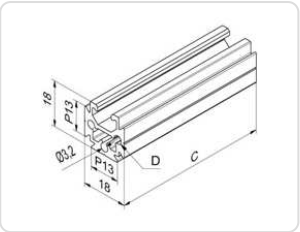
DESIGNATION	ITEM NO.	C	D	WEIGHT
SPP-18-18-P13-600	1-15-81-05-60-SPP	600	M4	0.245Kg
SPP-18-18-P13-650	1-15-81-05-65-SPP	650	M4	0.265Kg
SPP-18-18-P13-700	1-15-81-05-70-SPP	700	M4	0.286Kg
SPP-18-18-P13-750	1-15-81-05-75-SPP	750	M4	0.306Kg
SPP-18-18-P13-800	1-15-81-05-80-SPP	800	M4	0.326Kg
SPP-18-18-P13-850	1-15-81-05-85-SPP	850	M4	0.347Kg
SPP-18-18-P13-900	1-15-81-05-90-SPP	900	M4	0.367Kg
SPP-18-18-P13-950	1-15-81-05-95-SPP	950	M4	0.388Kg
SPP-18-18-P13-1050	1-15-81-06-05-SPP	1050	M4	0.428Kg
SPP-18-18-P13-1100	1-15-81-06-10-SPP	1100	M4	0.449Kg
SPP-18-18-P13-1150	1-15-81-06-15-SPP	1150	M4	0.469Kg
SPP-18-18-P13-1200	1-15-81-06-20-SPP	1200	M4	0.49Kg
SPP-18-18-P13-1250	1-15-81-06-25-SPP	1250	M4	0.51Kg
SPP-18-18-P13-1300	1-15-81-06-30-SPP	1300	M4	0.53Kg
SPP-18-18-P13-1350	1-15-81-06-35-SPP	1350	M4	0.551Kg
SPP-18-18-P13-1400	1-15-81-06-40-SPP	1400	M4	0.571Kg
SPP-18-18-P13-1450	1-15-81-06-45-SPP	1450	M4	0.592Kg
SPP-18-18-P13-1550	1-15-81-06-55-SPP	1550	M4	0.632Kg
SPP-18-18-P13-1600	1-15-81-06-60-SPP	1600	M4	0.653Kg
SPP-18-18-P13-1650	1-15-81-06-65-SPP	1650	M4	0.673Kg
SPP-18-18-P13-1700	1-15-81-06-70-SPP	1700	M4	0.694Kg
SPP-18-18-P13-1750	1-15-81-06-75-SPP	1750	M4	0.714Kg
SPP-18-18-P13-1800	1-15-81-06-80-SPP	1800	M4	0.734Kg
SPP-18-18-P13-1850	1-15-81-06-85-SPP	1850	M4	0.755Kg
SPP-18-18-P13-1900	1-15-81-06-90-SPP	1900	M4	0.775Kg
SPP-18-18-P13-1950	1-15-81-06-95-SPP	1950	M4	0.796Kg

Legend: C = Dimensions in mm D = for thread .....

SPP - P13 / PROFILE

SPP-18-18-N Small Prism Profile







ADVANTAGES

- V1 – 3 prisms available
- V2 – 1x form-fit fastening groove
- V3 – 2 front holes for M4 thread
- V4 – Pipe cross-section
- V5 – new design

REMARK

- All custom lengths are cut to size as required
- Silver anodised finish
- Custom lengths available on request; maximum length 6000mm
- Note:
- - Cheaper by 2m for EU delivery

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - please add up the required lengths and order as one item
- 1-15-80-00-43-SPP
- as a single position
- - order the quantity of sawn-to-size cuts 9-95-90-91-00-ZUS
- accordingly as well
- - enter the
- quantities and individual lengths in the comment field of the order overview
- Example order for:
- two profiles SPP-18-18-P13-N in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The positions to be ordered are:
- 929 pieces 1-15-80-00-43-SPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

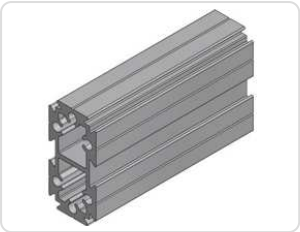
- A = 1.412 cm²
- Ex = 0.90 cm
- Ey = 0.90 cm
- Ix = 0.36 cm⁴
- Iy = 0.47 cm⁴
- Wx = 0.34 cm³
- Wy = 0.53 cm³
- Weight = 0.383 kg/m
- Tensile strength 205 N/mm²

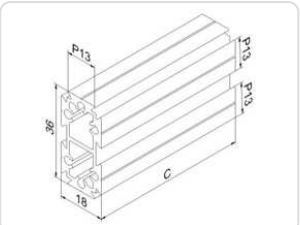
DESIGNATION	ITEM NO.	C	D	WEIGHT
SPP-18-18-P13-N-0001	1-15-80-00-43-SPP	1	M4	0.367Kg
SPP-18-18-P13-N-500	1-15-80-00-45-SPP	500	M4	0.185Kg
SPP-18-18-P13-N-1000	1-15-80-00-50-SPP	1000	M4	0.367Kg
SPP-18-18-P13-N-1500	1-15-80-00-55-SPP	1500	M4	0.555Kg
SPP-18-18-P13-N-2000	1-15-80-00-60-SPP	2000	M4	0.734Kg
SPP-18-18-P13-N-6000	1-15-80-00-69-SPP	6000	M4	2.202Kg

Legend: C = Dimensions in mm D = for thread .....

SPP - P13 / PROFILE

SPP-36-18 PreciGrip Profile







ADVANTAGES

- V1 – 6 prisms available
- V2 – 6 front mounting holes for M4 thread

REMARK

- All custom lengths are cut to size as required
- Silver anodised finish
- Note:
- - Cheaper by 2m for EU delivery

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - please add the required lengths and order with item
- 1-15-81-50-01-SPP
- as a single item
- - to order the required number of saw cuts 9-95-90-91-00-ZUS
- - enter the quantities and individual lengths
- in the comments field of the order summary
- Example order for:
- two SPP-36-18 profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items to be ordered are:
- 929 pieces 1-15-81-50-01-SPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 2.568 cm²
- Ex = 0.9 cm
- Ey = 1.8 cm
- Ix = 0.92 cm⁴
- Iy = 3.34 cm⁴
- Wx = 1.02 cm³
- Wy = 1.85 cm³
- Weight = 0.696 kg/m
- Tensile strength 205 N/mm²

DESIGNATION	ITEM NO.	C	D	WEIGHT
SPP-36-18-P13-500	1-15-80-01-20-SPP	500	M4	0.348Kg
SPP-36-18-P13-1000	1-15-80-01-30-SPP	1000	M4	0.696Kg
SPP-36-18-P13-1500	1-15-80-01-40-SPP	1500	M4	1.044Kg
SPP-36-18-P13-2000	1-15-80-01-50-SPP	2000	M4	1.392Kg
SPP-36-18-P13-50	1-15-81-30-05-SPP	50	M4	0.035Kg
SPP-36-18-P13-100	1-15-81-30-10-SPP	100	M4	0.07Kg
SPP-36-18-P13-150	1-15-81-30-15-SPP	150	M4	0.104Kg
SPP-36-18-P13-200	1-15-81-30-20-SPP	200	M4	0.139Kg
SPP-36-18-P13-250	1-15-81-30-25-SPP	250	M4	0.174Kg
SPP-36-18-P13-300	1-15-81-30-30-SPP	300	M4	0.209Kg
SPP-36-18-P13-350	1-15-81-30-35-SPP	350	M4	0.244Kg
SPP-36-18-P13-400	1-15-81-30-40-SPP	400	M4	0.278Kg
SPP-36-18-P13-450	1-15-81-30-45-SPP	450	M4	0.313Kg
SPP-36-18-P13-550	1-15-81-30-55-SPP	550	M4	0.383Kg
SPP-36-18-P13-600	1-15-81-30-60-SPP	600	M4	0.418Kg
SPP-36-18-P13-650	1-15-81-30-65-SPP	650	M4	0.452Kg
SPP-36-18-P13-700	1-15-81-30-70-SPP	700	M4	0.487Kg
SPP-36-18-P13-750	1-15-81-30-75-SPP	750	M4	0.522Kg

DESIGNATION	ITEM NO.	C	D	WEIGHT
SPP-36-18-P13-800	1-15-81-30-80-SPP	800	M4	0.557Kg
SPP-36-18-P13-850	1-15-81-30-85-SPP	850	M4	0.592Kg
SPP-36-18-P13-900	1-15-81-30-90-SPP	900	M4	0.626Kg
SPP-36-18-P13-950	1-15-81-30-95-SPP	950	M4	0.661Kg
SPP-36-18-P13-1050	1-15-81-31-05-SPP	1050	M4	0.731Kg
SPP-36-18-P13-1100	1-15-81-31-10-SPP	1100	M4	0.766Kg
SPP-36-18-P13-1150	1-15-81-31-15-SPP	1150	M4	0.8Kg
SPP-36-18-P13-1200	1-15-81-31-20-SPP	1200	M4	0.835Kg
SPP-36-18-P13-1250	1-15-81-31-25-SPP	1250	M4	0.87Kg
SPP-36-18-P13-1300	1-15-81-31-30-SPP	1300	M4	0.905Kg
SPP-36-18-P13-1350	1-15-81-31-35-SPP	1350	M4	0.94Kg
SPP-36-18-P13-1400	1-15-81-31-40-SPP	1400	M4	0.974Kg
SPP-36-18-P13-1450	1-15-81-31-45-SPP	1450	M4	1.009Kg
SPP-36-18-P13-1550	1-15-81-31-55-SPP	1550	M4	1.079Kg
SPP-36-18-P13-1600	1-15-81-31-60-SPP	1600	M4	1.114Kg
SPP-36-18-P13-1650	1-15-81-31-65-SPP	1650	M4	1.148Kg
SPP-36-18-P13-1700	1-15-81-31-70-SPP	1700	M4	1.183Kg
SPP-36-18-P13-1750	1-15-81-31-75-SPP	1750	M4	1.218Kg
SPP-36-18-P13-1800	1-15-81-31-80-SPP	1800	M4	1.253Kg
SPP-36-18-P13-1850	1-15-81-31-85-SPP	1850	M4	1.288Kg
SPP-36-18-P13-1900	1-15-81-31-90-SPP	1900	M4	1.322Kg
SPP-36-18-P13-1950	1-15-81-31-95-SPP	1950	M4	1.357Kg
SPP-36-18-P13-0001	1-15-81-50-01-SPP	1	M4	0.001Kg

Legend: C = Dimensions in mm D = face side 6x prepared with a core hole for thread .....

SPP - P13 / PROFILE

ZUS Saw cut

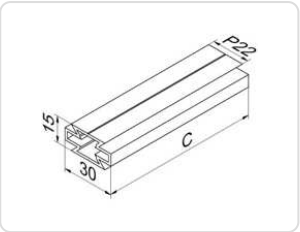


DESIGNATION	ITEM NO.
Cutting for profiles	9-95-90-91-00-ZUS

MPP - P22 / PROFILE

MPP-30-15 Middle Prism Profile







ADVANTAGES

- V1 – 2 prisms available
- V2 – Tube cross-section

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - Please add the required lengths and order with item
- 1-15-80-02-01-MPP
- as a single item
- - Number of saw cuts 9-95-90-91-00-ZUS
- order accordingly
- - In the comments field of the order overview
- enter quantities and individual lengths
- Example order for:
- Two MPP-30-15-P22 profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items ordered are:
- 929 pieces 1-15-80-02-01-MPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 0.153 cm²
- Ex = 1.50 cm
- Ey = 0.75 cm
- Ix = 0.37 cm⁴
- Iy = 1.21 cm⁴
- Wx = 0.50 cm³
- Wy = 0.81 cm³
- Weight = 0.430 kg/m
- Tensile strength 205 N/mm²

DESIGNATION	ITEM NO.	C	WEIGHT
MPP-30-15-P22-0001	1-15-80-02-01-MPP	1	0.413Kg
MPP-30-15-P22-0500	1-15-80-02-05-MPP	500	0.207Kg
MPP-30-15-P22-1000	1-15-80-02-10-MPP	1000	0.413Kg
MPP-30-15-P22-1500	1-15-80-02-15-MPP	1500	0.62Kg
MPP-30-15-P22-2000	1-15-80-02-20-MPP	2000	0.826Kg
MPP-30-15-P22-6000	1-15-80-02-29-MPP	6000	2.478Kg
MPP-30-15-P22-50	1-15-81-08-05-MPP	50	0.022Kg
MPP-30-15-P22-100	1-15-81-08-10-MPP	100	0.043Kg
MPP-30-15-P22-150	1-15-81-08-15-MPP	150	0.065Kg
MPP-30-15-P22-200	1-15-81-08-20-MPP	200	0.086Kg
MPP-30-15-P22-250	1-15-81-08-25-MPP	250	0.108Kg
MPP-30-15-P22-300	1-15-81-08-30-MPP	300	0.129Kg
MPP-30-15-P22-350	1-15-81-08-35-MPP	350	0.151Kg
MPP-30-15-P22-400	1-15-81-08-40-MPP	400	0.172Kg
MPP-30-15-P22-450	1-15-81-08-45-MPP	450	0.194Kg
MPP-30-15-P22-550	1-15-81-08-55-MPP	550	0.237Kg
MPP-30-15-P22-600	1-15-81-08-60-MPP	600	0.258Kg
MPP-30-15-P22-650	1-15-81-08-65-MPP	650	0.28Kg
MPP-30-15-P22-700	1-15-81-08-70-MPP	700	0.301Kg
MPP-30-15-P22-750	1-15-81-08-75-MPP	750	0.323Kg
MPP-30-15-P22-800	1-15-81-08-80-MPP	800	0.344Kg
MPP-30-15-P22-850	1-15-81-08-85-MPP	850	0.366Kg
MPP-30-15-P22-900	1-15-81-08-90-MPP	900	0.387Kg

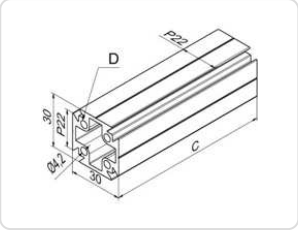
DESIGNATION	ITEM NO.	C	WEIGHT
MPP-30-15-P22-950	1-15-81-08-95-MPP	950	0.409Kg

Legend: C = Dimensions in mm

MPP - P22 / PROFILE

MPP-30-30 Middle Prism Profile







ADVANTAGES

- V1 – 4 prisms available
- V2 – 4 front holes for M5 thread
- V3 – Absorption of high torsional forces
- V4 – Pipe cross-section

REMARK

- All custom lengths are cut to size as required
- Silver anodised finish
- Custom lengths available on request; max. length 6000mm
- Note:
- - Cheaper by 2m for EU delivery

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - Please add the required lengths and order with item
- 1-15-80-02-23-MPP
- as a single item
- - Number of saw cuts 9-95-90-91-00-ZUS
- order accordingly
- - In the comments field of the order overview
- enter quantities and individual lengths
- Example order for:
- two MPP-30-30-P22 profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items to be ordered:
- 929 pieces 1-15-80-02-23-MPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 3.432 cm²
- Ex = 1.50 cm
- Ey = 1.50 cm
- Ix = 3.2 cm⁴
- Iy = 3.2 cm⁴
- Wx = 2.13 cm³
- Wy = 2.13 cm³
- Weight = 0.93 kg/m
- Tensile strength 205 N/mm²

DESIGNATION	ITEM NO.	C	D	WEIGHT
MPP-30-30-P22-0001	1-15-80-02-23-MPP	1	M5	0.001Kg
MPP-30-30-P22-500	1-15-80-02-25-MPP	500	M5	0.465Kg
MPP-30-30-P22-1000	1-15-80-02-30-MPP	1000	M5	0.93Kg
MPP-30-30-P22-1500	1-15-80-02-35-MPP	1500	M5	1.395Kg
MPP-30-30-P22-2000	1-15-80-02-40-MPP	2000	M5	1.86Kg
MPP-30-30-P22-6000	1-15-80-02-49-MPP	6000	M5	5.58Kg
MPP-30-30-P22-50	1-15-81-11-05-MPP	50	M5	0.047Kg
MPP-30-30-P22-100	1-15-81-11-10-MPP	100	M5	0.093Kg
MPP-30-30-P22-150	1-15-81-11-15-MPP	150	M5	0.14Kg
MPP-30-30-P22-200	1-15-81-11-20-MPP	200	M5	0.186Kg
MPP-30-30-P22-250	1-15-81-11-25-MPP	250	M5	0.233Kg

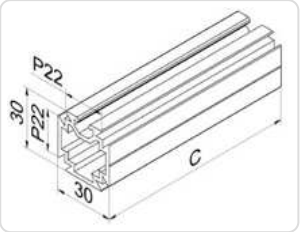
DESIGNATION	ITEM NO.	C	D	WEIGHT
MPP-30-30-P22-300	1-15-81-11-30-MPP	300	M5	0.279Kg
MPP-30-30-P22-350	1-15-81-11-35-MPP	350	M5	0.326Kg
MPP-30-30-P22-400	1-15-81-11-40-MPP	400	M5	0.372Kg
MPP-30-30-P22-450	1-15-81-11-45-MPP	450	M5	0.419Kg
MPP-30-30-P22-550	1-15-81-11-55-MPP	550	M5	0.51Kg
MPP-30-30-P22-600	1-15-81-11-60-MPP	600	M5	0.558Kg
MPP-30-30-P22-650	1-15-81-11-65-MPP	650	M5	0.605Kg
MPP-30-30-P22-700	1-15-81-11-70-MPP	700	M5	0.651Kg
MPP-30-30-P22-750	1-15-81-11-75-MPP	750	M5	0.698Kg
MPP-30-30-P22-800	1-15-81-11-80-MPP	800	M5	0.74Kg
MPP-30-30-P22-850	1-15-81-11-85-MPP	850	M5	0.791Kg
MPP-30-30-P22-900	1-15-81-11-90-MPP	900	M5	0.837Kg
MPP-30-30-P22-950	1-15-81-11-95-MPP	950	M5	0.884Kg

Legend: C = Dimensions in mm D = for threads .....

MPP - P22 / PROFILE

MPP-30-30-N Middle Prism Profile







ADVANTAGES

- V1 – 3 prisms provided for direct mounting
- V2 – 1x form-fitting mounting groove
- V3 – Pipe cross-section

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - Please add the desired lengths and order with item
- 1-15-80-02-43-MPP
- as a single item
- - Number of saw cuts 9-95-90-91-00-ZUS
- order accordingly
- - Enter the quantities and individual lengths in the comments field of the order overview
- Example order for:
- two MPP-30-30-P22-N profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The following items have been ordered:
- 929 pieces 1-15-80-02-43-MPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 2.91 cm²
- Ex = 1.50 cm
- Ey = 1.50 cm
- Ix = 2.72 cm⁴
- Iy = 2.85 cm⁴
- Wx = 1.81 cm³
- Volume = 1.90 cm³
- Weight = 0.788 kg/m
- Tensile strength 205 N/mm²

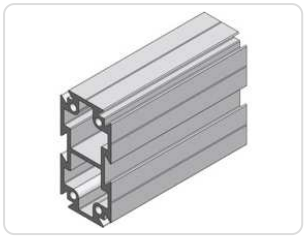
DESIGNATION	ITEM NO.	C	WEIGHT
MPP-30-30-P22-N-0001	1-15-80-02-43-MPP	1	0.001Kg
MPP-30-30-P22-N-0500	1-15-80-02-45-MPP	500	0.392Kg
MPP-30-30-P22-N-1000	1-15-80-02-50-MPP	1000	0.783Kg
MPP-30-30-P22-N-1500	1-15-80-02-55-MPP	1500	1.175Kg
MPP-30-30-P22-N-2000	1-15-80-02-60-MPP	2000	1.488Kg

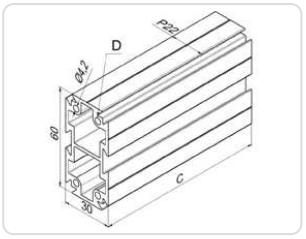
DESIGNATION	ITEM NO.	C	WEIGHT
MPP-30-30-P22-N-6000	1-15-80-02-69-MPP	6000	4.698Kg

Legend: C = Dimensions in mm

MPP - P22 / PROFILE

MPP-60-30 Middle Prism Profile







ADVANTAGES

- V1 – 6 prisms available
- V2 – 4 front holes for M5 thread
- V3 – Pipe cross-section

REMARK

- All custom lengths are cut to size as required
- Silver anodised finish
- Custom lengths available on request; maximum length 6000mm
- Note:
- - Cheaper by 2m for EU delivery

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - Please add the required lengths and order with item
- 1-15-80-02-73-MPP
- as a single item
- - Number of saw cuts 9-95-90-91-00-ZUS
- order accordingly
- - In the comment field of the order overview
- enter quantities and individual lengths
- Example order for:
- Two MPP-60-30-P22 profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items are ordered:
- 929 pieces 1-15-80-02-73-MPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 5.821 cm²
- Ex = 1.50 cm
- Ey = 3.00 cm
- Ix = 21.73 cm⁴
- Iy = 6.22 cm⁴
- Wx = 7.24 cm³
- Wy = 4.15 cm³
- Weight = 1.577 kg/m
- Tensile strength 205 N/mm²

DESIGNATION	ITEM NO.	C	D	WEIGHT
MPP-60-30-P22-0001	1-15-80-02-73-MPP	1	M5	0.002Kg
MPP-60-30-P22-0500	1-15-80-02-75-MPP	500	M5	0.789Kg
MPP-60-30-P22-1000	1-15-80-02-80-MPP	1000	M5	1.577Kg
MPP-60-30-P22-1500	1-15-80-02-85-MPP	1500	M5	2.366Kg
MPP-60-30-P22-2000	1-15-80-02-90-MPP	2000	M5	3.154Kg
MPP-60-30-P22-6000	1-15-80-02-99-MPP	6000	M5	9.462Kg
MPP-60-30-P22-50	1-15-81-14-05-MPP	50	M5	0.079Kg
MPP-60-30-P22-100	1-15-81-14-10-MPP	100	M5	0.158Kg
MPP-60-30-P22-150	1-15-81-14-15-MPP	150	M5	0.237Kg
MPP-60-30-P22-200	1-15-81-14-20-MPP	200	M5	0.316Kg
MPP-60-30-P22-250	1-15-81-14-25-MPP	250	M5	0.394Kg
MPP-60-30-P22-300	1-15-81-14-30-MPP	300	M5	0.473Kg

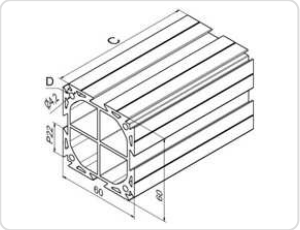
DESIGNATION	ITEM NO.	C	D	WEIGHT
MPP-60-30-P22-350	1-15-81-14-35-MPP	350	M5	0.552Kg
MPP-60-30-P22-400	1-15-81-14-40-MPP	400	M5	0.631Kg
MPP-60-30-P22-450	1-15-81-14-45-MPP	450	M5	0.71Kg
MPP-60-30-P22-550	1-15-81-14-55-MPP	550	M5	0.868Kg
MPP-60-30-P22-600	1-15-81-14-60-MPP	600	M5	0.947Kg
MPP-60-30-P22-650	1-15-81-14-65-MPP	650	M5	1.026Kg
MPP-60-30-P22-700	1-15-81-14-70-MPP	700	M5	1.104Kg
MPP-60-30-P22-750	1-15-81-14-75-MPP	750	M5	1.183Kg
MPP-60-30-P22-800	1-15-81-14-80-MPP	800	M5	1.262Kg
MPP-60-30-P22-850	1-15-81-14-85-MPP	850	M5	1.341Kg
MPP-60-30-P22-900	1-15-81-14-90-MPP	900	M5	1.42Kg
MPP-60-30-P22-950	1-15-81-14-95-MPP	950	M5	1.499Kg

Legend: C = Dimensions in mm D = for thread .....

MPP - P22 / PROFILE

MPP-60-60 Middle Prism Profile







ADVANTAGES

- V1 – 8 prisms available
- V2 – 4 front holes for M5 thread
- V3 – Tube cross-section

REMARK

- Alle custom lengths are cut to size as required
- Silver anodised finish
- Custom lengths available on request; max. length 6000mm
- Note:
- - Cheaper by 2m for EU delivery

ORDERING SPECIAL LENGTHS VIA THE CUSTOMER PORTAL

- - Please add the required lengths and order with item
- 1-15-80-04-03-MPP
- as a single item
- - Number of saw cuts 9-95-90-91-00-ZUS
- order accordingly
- - In the comments field of the order overview
- enter quantities and individual lengths
- Example order for:
- Two MPP-60-60-P22 profiles in the lengths
- 1× 519mm and 1× 410mm (text for comment field).
- The items ordered are:
- 929 pieces 1-15-80-04-03-MPP
- 2 pieces 9-95-90-91-00-ZUS

STATIC VALUES

- A = 11.916 cm^2
- Ex = 3.00 cm
- Ey = 3.00 cm
- Ix = 49.02 cm^4
- Iy = 49.02 cm^4
- Wx = 16.34 cm^3
- Wy = 16.34 cm^3
- Weight = 3.216 kg/m
- Tensile strength 205 N/mm^2

DESIGNATION	ITEM NO.	C	D	WEIGHT
MPP-60-60-P22-0001	1-15-80-04-03-MPP	1	M5	0.003Kg

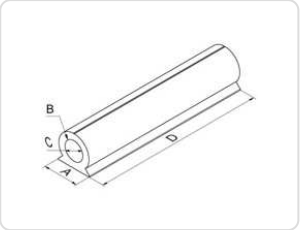
DESIGNATION	ITEM NO.	C	D	WEIGHT
MPP-60-60-P22-0500	1-15-80-04-05-MPP	500	M5	1.608Kg
MPP-60-60-P22-1000	1-15-80-04-10-MPP	1000	M5	3.225Kg
MPP-60-60-P22-1500	1-15-80-04-20-MPP	1500	M5	4.838Kg
MPP-60-60-P22-2000	1-15-80-04-25-MPP	2000	M5	6.45Kg
MPP-60-60-P22-6000	1-15-80-04-29-MPP	6000	M5	19.35Kg

Legend: C = Dimensions in mm D = for thread .....

SPECIAL / PROFILE

GGS-P-1000 Gripperarm Profile Prism





ADVANTAGES

- V1 - Special lengths are easy to realise

REMARK

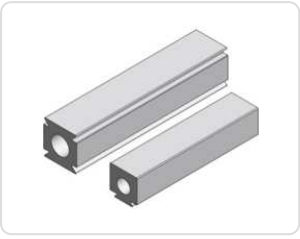
- Material: Aluminium

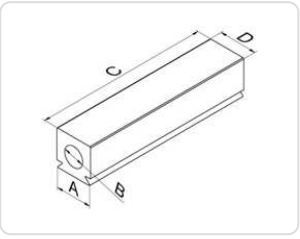
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGS-P13-5-1000	1-40-50-70-00-GGS	P13	M5	4,2	1000	0.2Kg
GGS-P22-1000	1-40-50-74-00-GGS	P22	G1/4	11,8	1000	0.65Kg

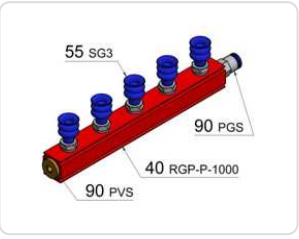
Legend: B = for thread C = Core bore directly for thread 4.2mm for M5 thread and 11.8mm for G1/4 thread

SPECIAL / PROFILE

RGP-P-1000 Tube grip profile Prism







ADVANTAGES

- V1 - Special lengths are easy to realise

REMARK

- Material Aluminium
- RGP-P13-P13-18-1000 has one prism P13
- RGP-P22-P22-14-1000 has two prisms P22

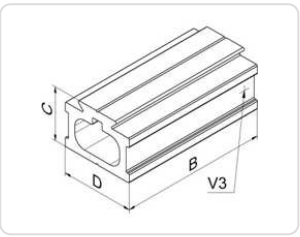
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
RGP-P13-18-1000	1-40-51-10-00-RGP	P13	8,8	1000	18	0.687Kg
RGP-P22-14-1000	1-40-51-12-00-RGP	2x P22	11,8	1000	22	1.003Kg

Legend: B = Core bore directly for thread 8.8mm for G1/8" thread and 11.8mm for G1/4" thread

SPECIAL / PROFILE

KSV-P-P Clamp Profile Prism





ADVANTAGES

- V1 - Special lengths are easy to realise
- V2 - for customised processing
- V3 - Pipe clamping with screw and steel square nut possible

REMARK

- Material aluminium
- Special lengths on request max. length 6000mm

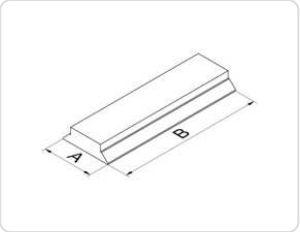
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
KSV-P13-1000	1-30-51-60-00-KSV	P13	1000	14,5	20	0.374Kg
KSV-P22-1000	1-30-51-70-00-KSV	P22	1000	19	26	0.635Kg

Legend: A = Prism

20.0 - PROFILE ACCESSORIES

PRP Prism Profile





ADVANTAGES

- V1 - with this profile, "non-PreciGrip
- components" can be integrated into the system

REMARK

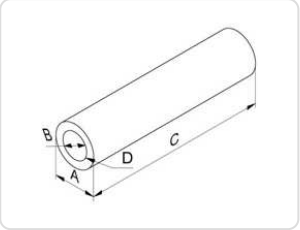
- Material aluminium

DESIGNATION	ITEM NO.	A	B	WEIGHT
PRP-P13-100	1-20-50-10-00-PRP	13	100	0.01Kg
PRP-P22-120	1-20-50-12-00-PRP	22	120	0.036Kg

SPECIAL / PROFILE

GAR Gripper Arm Tube







ADVANTAGES

- V1 - Tube with threaded core hole

REMARK

- Material: Aluminium

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GAR-10-4,2-1000	1-40-14-90-00-GAR	10	4,2	1000	M5	0.176Kg
GAR-14-8,7-1000	1-40-14-92-00-GAR	14	8,8	1000	G1/8	0.257Kg
GAR-20-11,8-1000	1-40-14-94-00-GAR	20	11,8	1000	G1/4	0.562Kg
GAR-20-16-1000	1-40-14-95-00-GAR	20	16	1000	M17×1	0.32Kg
GAR-30-26-1000	1-40-14-96-00-GAR	30	26	1000	M27×1	0.583Kg

Legend: B = core hole bore D = suitable for thread ...

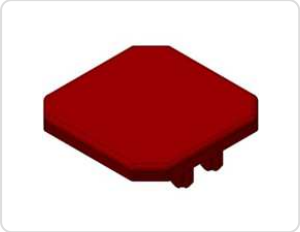
20.0 Profile Accessories

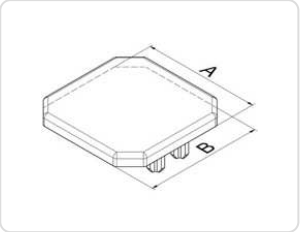


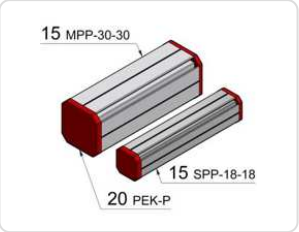
Hier zeigen wir ihnen Zubehör für die einzelnen Profilsysteme

- Profilendkappen
- Nutensteine
- Stufenbohrer

PEK-P Profile End Cap Prism







ADVANTAGES

- V1 - Closure of the profile end face
- V2 - Edge protection of the profile

REMARK

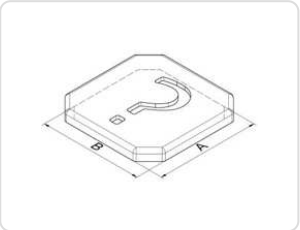
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PEK-18-10-P13	1-20-10-60-00-PEK	18	10	0.001Kg	SPP-18-10-P13
PEK-18-18-P13	1-20-10-62-00-PEK	18	18	0.001Kg	SPP-18-18-P13 / SPP-18-18-P13-N
PEK-30-15-P22	1-20-10-66-00-PEK	30	15	0.001Kg	MPP-30-15-P22
PEK-30-30-P22	1-20-10-68-00-PEK	30	30	0.003Kg	MPP-30-30-P22
PEK-30-30-P22-N	1-20-10-70-00-PEK	30	30	0.002Kg	MPP-30-30-P22-N
PEK-60-30-P22	1-20-10-72-00-PEK	60	30	0.004Kg	MPP-60-30-P22
PEK-60-60-P22	1-20-10-74-00-PEK	60	60		MPP-60-60-P22

Legend: X = suitable for profile .....

PEK-P-SO Profile End Cap Prism Special Variante





ADVANTAGES

- V1 – customised end caps with your company logo
- V2 - closure of the profile end face
- V3 - edge protection of the profile

REMARK

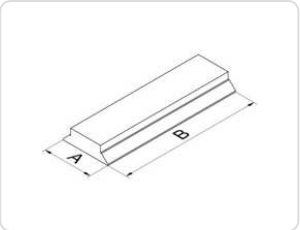
- Shipping unit: PU = 40 pieces
- Price: 1 PU
- Minimum order quantity 40 pieces

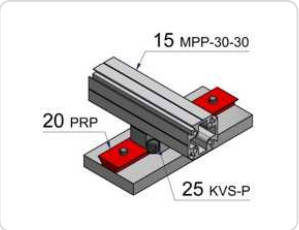
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PEK-30-15-P22-SO	1-20-10-67-00-PEK	30	15	0.04Kg	MPP-30-15-P22
PEK-30-30-P22-SO	1-20-10-69-00-PEK	30	30	0.108Kg	MPP-30-30-P22
PEK-30-30-P22-N-SO	1-20-10-71-00-PEK	30	30	0.108Kg	MPP-30-30-P22-N
PEK-60-30-P22-SO	1-20-10-73-00-PEK	60	30	0.128Kg	MPP-60-30-P22
PEK-60-60-P22-SO	1-20-10-75-00-PEK	60	60	0.144Kg	MPP-60-60-P22

Legend: X = suitable for profile .....

PRP Prism Profile







ADVANTAGES

- V1 - with this profile, "non-PreciGrip
- components" can be integrated into the system

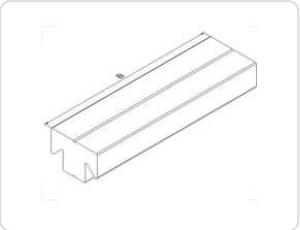
REMARK

- Material aluminium

DESIGNATION	ITEM NO.	A	B	WEIGHT
PRP-P13-100	1-20-50-10-00-PRP	13	100	0.01Kg
PRP-P22-120	1-20-50-12-00-PRP	22	120	0.036Kg

PKP Prism Clamping Profile





ADVANTAGES

- V1 - with this profile you can use your own PreciGrip clamping pieces
- such as profile parallel connectors PPV-P with the desired clamping length

REMARK

- Material aluminium

DESIGNATION	ITEM NO.	A	B	WEIGHT
PKP-P13-1000	1-20-70-10-00-PKP	P13	1000	0.127Kg
PKP-P22-1000	1-20-70-14-00-PKP	P22	1000	0.302Kg

Legend: A = suitable for prism ... B = dimensions in mm

25.0 Profil Connectors



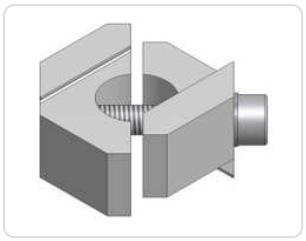
Mit den Profilverbindern hat man unterschiedliche Möglichkeiten Profile miteinander zu verbinden.

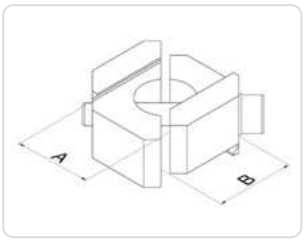
- 90 Grad
- Verstellbar 0-90 Grad
- Verstellbar 0-180 Grad
- Verbinder mit 1 Schraube oder mehrere Schrauben
- Kleinste Klemmfläche ca. 12mm - größte Klemmfläche 250mm

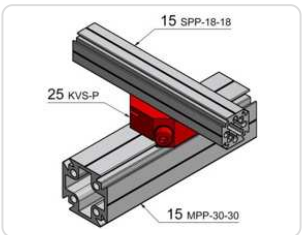
Beim PreciGrip System werden Profilverbinder auch zum integrieren von Aktoren wie z.B. Greifarmen, Greifzangen und Greiffingern verwendet, da diese auch über ein Prisma verfügen.

Anwendungsbeispiele

KVS-P Profile Connection Prism







ADVANTAGES

- V1 - Universal connector
- V2 - One screw

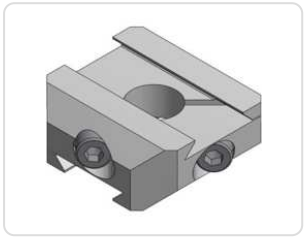
REMARK

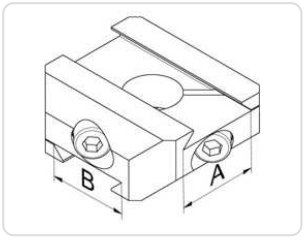
- Material: Aluminium

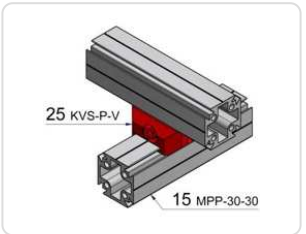
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KVS-P13-P13	1-25-50-10-00-KVS	P13	P13	0.008Kg	SPP
KVS-P13-P22	1-25-50-16-00-KVS	P13	P22	0.024Kg	SPP/MPP
KVS-P22-P22	1-25-50-20-00-KVS	P22	P22	0.026Kg	MPP

Legend: X = suitable for profile .....

KVS-P-V Profile Connection Prism Reinforced







ADVANTAGES

- V1 - universal connector
- V2 - very stable version

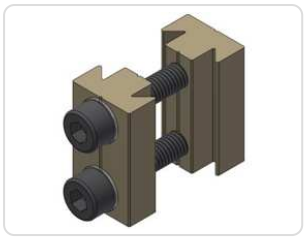
REMARK

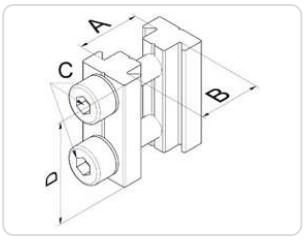
- Material: Aluminium

DESIGNATION	ITEM NO.	A	B	X
KVS-P13-P13-2-V	1-25-51-10-00-KVS	P13	P13	SPP
KVS-P22-P22-2-V	1-25-51-20-00-KVS	P22	P22	MPP

Legend: X = suitable for profile .....

PPV-P Profile Parallel connection Prism







ADVANTAGES

- V1 - Stable positive and non-positive connection
- of components or profiles with a prism
- with each other
- V2 - Milled from solid material
- V3 - Profiles can be butt-joined
- V4 - no holes need to be drilled

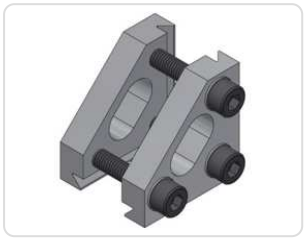
REMARK

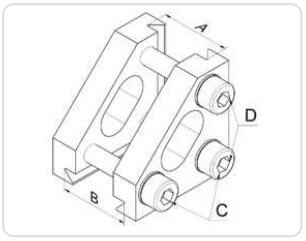
- Material: aluminium

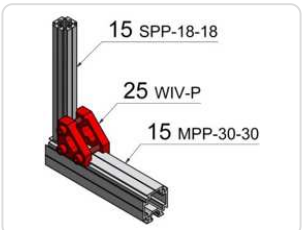
DESIGNATION	ITEM NO.	A	B	C	D	X	WEIGHT
PPV-P13-P13-1	1-25-50-30-00-PPV	P13	P13	1	12	SPP	
PPV-P13-P13-2	1-25-50-32-00-PPV	P13	P13	2	20	SPP	0.009Kg
PPV-P13-P22-2	1-25-50-35-00-PPV	P13	P22	1	12	SPP/MPP	0.026Kg
PPV-P13-P22-2	1-25-50-38-00-PPV	P13	P22	2	25	SPP/MPP	0.026Kg
PPV-P22-P22-2	1-25-50-42-00-PPV	P22	P22	2	25	MPP	0.024Kg
PPV-P22-P22-2-40	1-25-50-43-00-PPV	P22	P22	2	40	MPP	0.036Kg
PPV-P13-P13-3-100	1-25-50-46-00-PPV	P13	P13	3	100	SPP	0.031Kg
PPV-P22-P22-4-160	1-25-50-47-00-PPV	P22	P22	4	160	SPP	0.114Kg
PPV-P22-P22-5-250	1-25-50-48-00-PPV	P22	P22	5	250	MPP	0.172Kg
PPV-P22-P22-3-50	1-25-50-49-00-PPV	P22	P22	3	50	MPP	0.048Kg

Legend: C = number of screws X = suitable for profile .....

WIV-P Profile Connection Prism 90° Prism







ADVANTAGES

- V1 - Universal connector
- V2 - Stable 90° connection

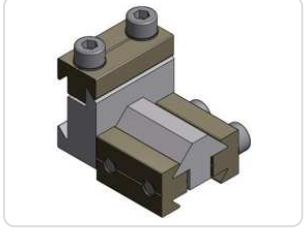
REMARK

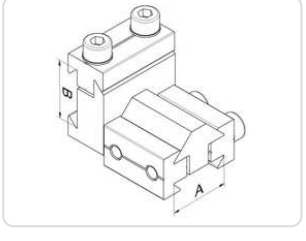
- Material: Aluminium

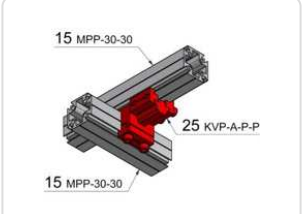
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
WIV-1-P13-P13	1-25-50-30-00-WIV	P13	P13	1	1	0.01Kg	SPP
WIV-2-2-P13-P13	1-25-50-32-00-WIV	P13	P13	2	2	0.017Kg	SPP
WIV-3-3-P13-P13	1-25-50-34-00-WIV	P13	P13	3	3		SPP
WIV-2-2-P13-P22	1-25-50-36-00-WIV	P13	P22	2	2	0.048Kg	SPP/MPP
WIV-3-3-P22-P22	1-25-50-39-00-WIV	P22	P22	3	3	0.096Kg	MPP
WIV-2-2-P22-P22	1-25-50-40-00-WIV	P22	P22	2	2	0.043Kg	MPP

Legend: C/D = number of screws per profile X = suitable for profile .....

KVP-A-P-P Clamp Prism Outside







ADVANTAGES

- V1 - very stable and slim clamp connection
- of components and profiles with prisms
- V2 - Milled from solid material
- V3 - Angular accuracy
- V4 - no loss of space due to spacers
- (profile lies on profile)

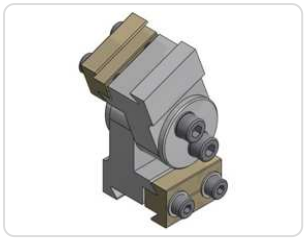
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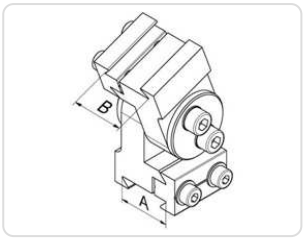
- Material: Aluminium

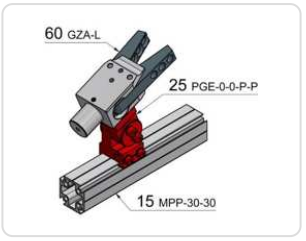
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KVP-A-P13-P13	1-25-90-50-00-KVP	P13	P13	0.022Kg	SPP
KVP-A-P22-P22	1-25-90-52-00-KVP	P22	P22	0.07Kg	MPP
KVP-A-P22-P13	1-25-90-54-00-KVP	P13	P22	0.043Kg	SPP/MPP

Legend: X = suitable for profile .....

PGE-0-0-P-P Profile joint for PreciGrip profile







ADVANTAGES

- V1 - very stable and slim clamping connection of components and profiles with prisms
- V2 - very stable clamping at the joint

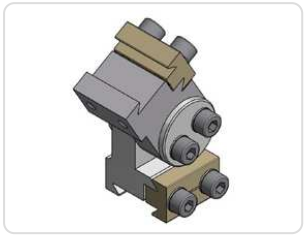
REMARK

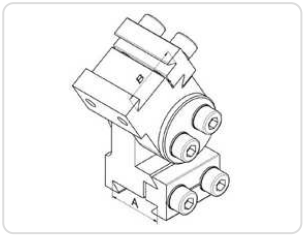
- Material: Aluminium

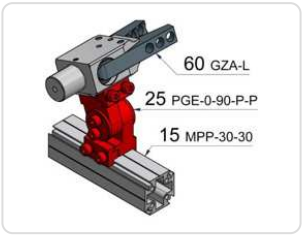
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PGE-0-0-P13-P13	1-25-52-10-00-PGE	P13	P13	0.056Kg	SPP
PGE-0-0-P22-P22	1-25-52-14-00-PGE	P22	P22	0.118Kg	MPP

Legend: X = suitable for profile .....

PGE-0-90-P-P Profile joint for PreciGrip profile 90°







ADVANTAGES

- V1 - very stable and slim clamping connection of components and profiles with prisms
- V2 - very stable clamping at the joint

REMARK

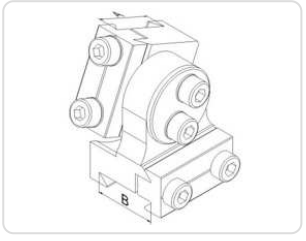
- Material: Aluminium

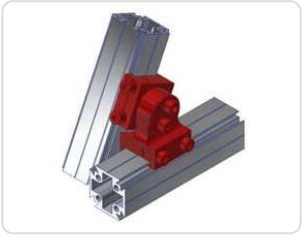
DESIGNATION	ITEM NO.	A	B	X
PGE-0-90-P13-P13	1-25-52-60-00-PGE	P13	P13	SPP
PGE-0-90-P22-P22	1-25-52-64-00-PGE	P22	P22	MPP

Legend: X = suitable for profile .....

KVP-D-P-P Clamp Prism rotable with prism







ADVANTAGES

- V1 - very stable and slim clamp connection
- of components and profiles with prisms
- V2 - Profiles can be fastened at a variably adjustable angle
- V3 - very stable clamping at the joint

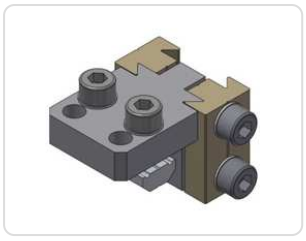
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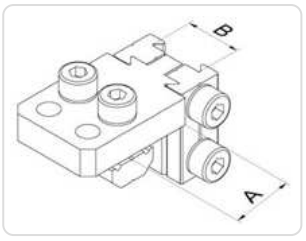
- Material: Aluminium

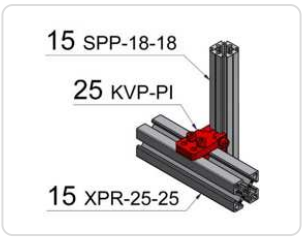
DESIGNATION	ITEM NO.	A	B	X
KVP-D-P13-P13	1-25-62-50-00-KVP	P13	P13	SPP
KVP-D-P22-P22	1-25-62-54-00-KVP	P22	P22	MPP

Legend: X = suitable for profile .....

KVP-PI Clamp Prism Inside







ADVANTAGES

- V1 - Stable connection of components with a prism to each other
- V2 - Milled from solid material

REMARK

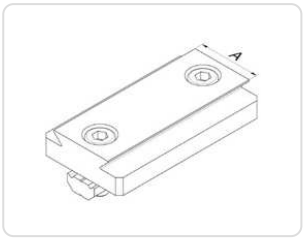
- Material: Aluminium

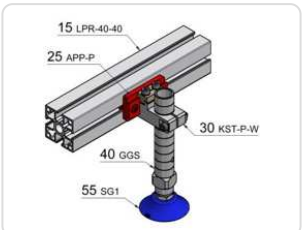
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KVP-PI-13-XL	1-25-90-10-00-KVP	12,5/20	P13	0.028Kg	XPR/LPR
KVP-PI-22-XL	1-25-90-30-00-KVP	12,5/20	P22	0.059Kg	XPR/LPR

Legend: B = Prism size X = suitable for profile .....

APP-P Adapter Plate Prism







ADVANTAGES

- V1 - compatible 90° connection of a standard profile with PreciGrip profile
- V2 - including screw connection

REMARK

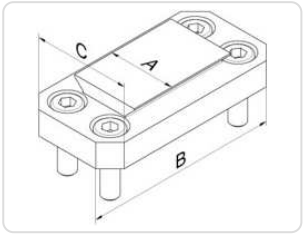
- Material aluminium

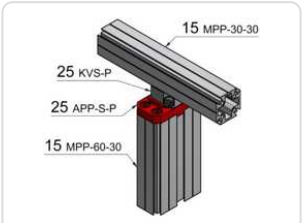
DESIGNATION	ITEM NO.	A	WEIGHT	X
APP-P13	1-25-60-02-00-APP	P13	0.03Kg	XPR
APP-P22	1-25-60-04-00-APP	P22	0.049Kg	LPR

Legend: X = suitable for profile ....

APP-S-P Adapter plate front end







ADVANTAGES

- V1 - very stable 90° connection of two MPP profiles
- V2 - including screw connection

REMARK

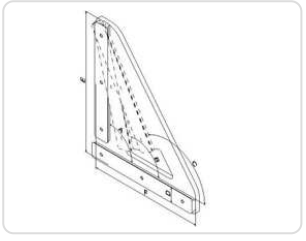
- Material aluminium

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
APP-S-P22-MPP-60-30	1-25-60-10-00-APP	P22	60	30	1	0.056Kg	MPP-60-30
APP-S-P22-MPP-60-60	1-25-60-14-00-APP	P22	60	60	2	0.113Kg	MPP-60-60

Legend: D = Number of prisms X = suitable for profile ....

PVB-V-P Profile Connector adjustable with Prism







ADVANTAGES

- V1 - for easy connection of PreciGrip profiles
- V2 - No drilling required
- V3 - Connection of the profiles to each other optionally 90°, 105° or 120°
- V4 - very stable fastening

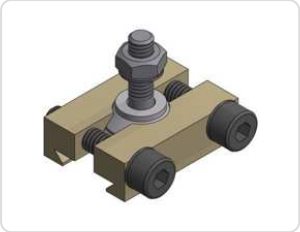
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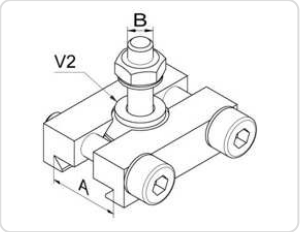
- Material: Aluminium

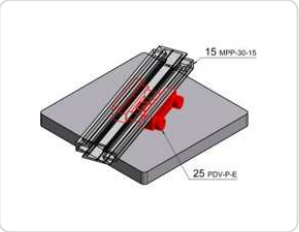
DESIGNATION	ITEM NO.	A	B	C	D	E	F	X
PVB-V-90-105-120-P22	1-25-65-20-00-PVB	90°	105°	120°	P22	195	160	MPP

Legend: A = Selection option 1 connection bracket B = Choice of 2 connection brackets C = Choice of 3 connection brackets X = suitable for profile .....

PDV-P-E Profile Turnconnection Prism Easy







ADVANTAGES
- V1 - Stable connection of PreciGrip components or profiles to panels using a screw and nut
- V2 - 360° rotatable

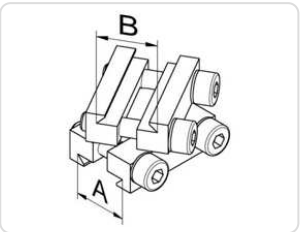
REMARK
- Material: Aluminium

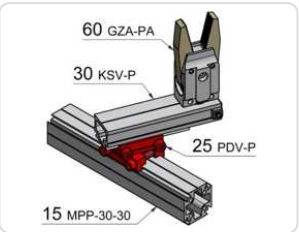
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PDV-P13-4-360-E	1-25-50-70-00-PDV	P13	M4	0.012Kg	SPP
PDV-P22-5-360-E	1-25-50-72-00-PDV	P22	M5	0.032Kg	MPP

Legend: X = suitable for PreciGrip profile .....

PDV-P Profile Turnconnection Prism







ADVANTAGES
- V1 - Stable connection of components or profiles with a prism to each other
- V2 - 360° rotatable

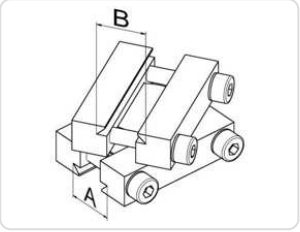
REMARK
- Material: Aluminium

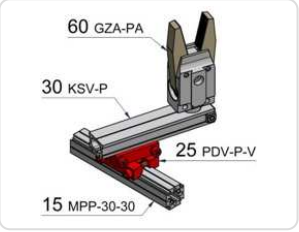
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PDV-P13-P13-360	1-25-50-50-00-PDV	P13	P13	0.031Kg	SPP
PDV-P22-P22-360	1-25-50-54-00-PDV	P22	P22	0.058Kg	MPP
PDV-P13-P22-360	1-25-50-58-00-PDV	P13	P22	0.038Kg	SPP/MPP

Legend: X = suitable for profile .....

PDV-P-V Profile Turnconnection Prism Reinforced







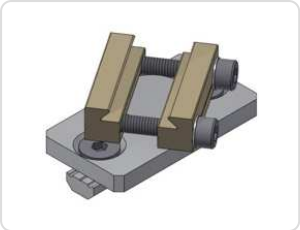
ADVANTAGES
- V1 - extremely stable connection of components or profiles with a prism to each other
- V2 - 360° rotatable

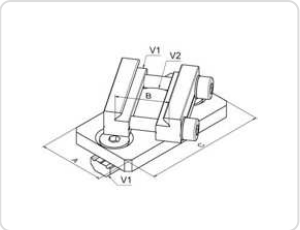
REMARK
- Material:
- PDV-P13-P13-360-V made of aluminium
- PDV-P22-P22-360-V made of steel

DESIGNATION	ITEM NO.	A	B	X
PDV-P13-P13-360-V	1-25-51-58-00-PDV	P13	P13	SPP
PDV-P22-P22-360-V	1-25-51-62-00-PDV	P22	P22	MPP

Legend: X = suitable for profile .....

PDV-AS-P Profile Turnconnection Prism screwed







ADVANTAGES

- V1 - Connection of standard profile with prismatic profile
- V2 - 360° rotatable

REMARK

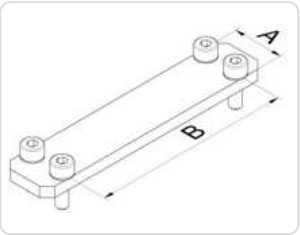
- Material: Aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PDV-AS-P13-360	1-25-50-80-00-PDV	XPR	P13	40	0.035Kg
PDV-AS-P22-360	1-25-50-82-00-PDV	LPR	P22	55	0.078Kg

Legend: A = suitable for profile .....

VPS-P Reinforcement profile front end







ADVANTAGES

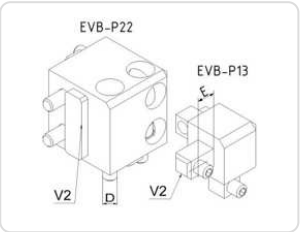
- V1 - 2 very long profiles attached to gripper base plate GGP, stabilised by means of reinforcement VPS
- V2 - including screw connection

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
VPS-P13	1-25-60-20-00-VPS	18	70	GGP-1	0.021Kg	SPP-P13
VPS-P22	1-25-60-22-00-VPS	30	120	GGP-2	0.063Kg	MPP-P22

Legend: B = Dimension from centre of profile to centre of profile C = suitable for gripper base plate GGP..... X = suitable for profile .... (profile with drill holes)

EVB-P Corner connector for prismatic profile





ADVANTAGES

- V1 - simple and secure corner mounting of 3 PreciGrip profiles
- V2 - Guide lugs ensure problem-free positioning of the profiles
- V3 - including fixing material

REMARK

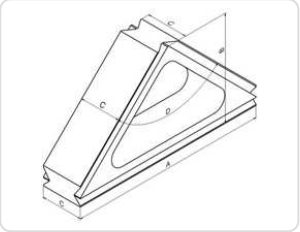
- Please order taps for MPP-30-30 separately:

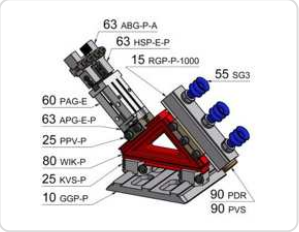
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT	X
EVB-P13	1-25-55-10-00-EVB	P13	P13	P13	M5	7,5	0.005Kg	SPP
EVB-P22	1-25-55-14-00-EVB	P22	P22	P22	M5		0.005Kg	MPP

Legend: D = threaded holes for profile MPP-30-30 2x end face SPP-18-18 1× 7.5mm from the end face X = suitable for PreciGrip profile .....

WIK-P Angle Bracket with Prism







ADVANTAGES

- V1 - quick function change of the gripper hand due to 180° rotation of the articulated arm robot
- V2 - shorter cycle times

REMARK

- Material: Aluminium

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
WIK-2-100-P22	1-80-10-10-00-WIK	100	54	P22	90°	0.11Kg

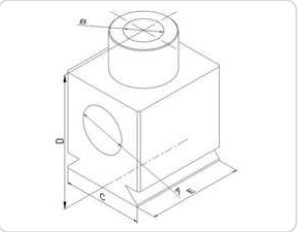
30.0 Clamps

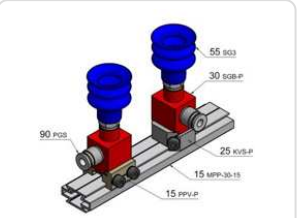


Clamping pieces are used to integrate vacuum cups or components with a round connection spigot into the gripper system.

SGB-P Suction pad mounting piece prism







ADVANTAGES

- V1 - Vacuum cup can be attached directly next to the profile (thread B) or in the centre (thread A) on the profile

REMARK

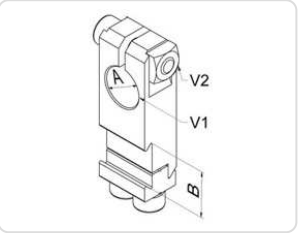
- Material aluminium

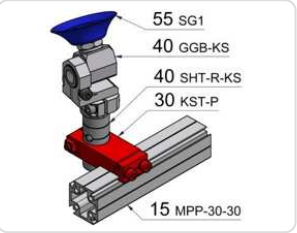
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT	X
SGB-18-5-P13	1-30-92-10-00-SGB	G1/8	M5	P13	24	25	0.019Kg	SPP
SGB-18-18-P13	1-30-92-12-00-SGB	G1/8	G1/8	P13	28	25	0.019Kg	SPP
SGB-18-18-P22	1-30-92-20-00-SGB	G1/8	G1/8	P22	30	25	0.019Kg	MPP
SGB-14-18-P22	1-30-92-22-00-SGB	G1/4	G1/8	P22	35	25	0.019Kg	MPP
SGB-14-14-P22	1-30-92-24-00-SGB	G1/4	G1/4	P22	35	25	0.019Kg	MPP

Legend: X = Suitable for profile .....

KST-P Clamp Prism







ADVANTAGES

- V1 - round elements such as gripper arms, grippers and gripper fingers can be used without any problems
- V2 - Tube clamping with screw and square steel nut

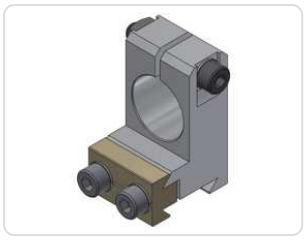
REMARK

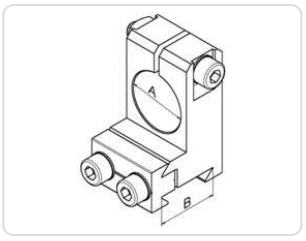
- Material aluminium

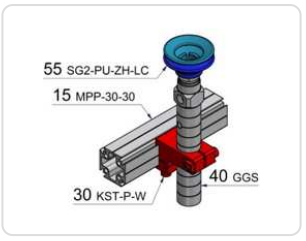
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KST-10-P13	1-30-50-10-00-KST	10	P13	0.016Kg	SPP
KST-14-P13	1-30-50-12-00-KST	14	P13	0.018Kg	SPP
KST-14-P22	1-30-50-20-00-KST	14	P22	0.045Kg	MPP
KST-20-P22	1-30-50-30-00-KST	20	P22	0.049Kg	MPP
KST-30-P22	1-30-50-40-00-KST	30	P22	0.111Kg	MPP

Legend: X = Suitable for profile .....

KST-P-W Clamp Prism







ADVANTAGES

- V1 - round elements such as gripper arms, grippers and gripper fingers can be used without any problems
- V2 - Tube clamping with screw and square steel nut

REMARK

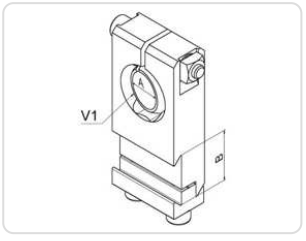
- Material aluminium

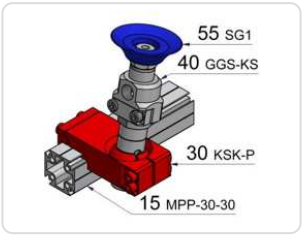
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KST-10-P13-W	1-30-50-50-00-KST	10	P13	0.016Kg	SPP
KST-14-P13-W	1-30-50-52-00-KST	14	P13	0.02Kg	SPP
KST-14-P22-W	1-30-50-60-00-KST	14	P22	0.048Kg	MPP
KST-20-P22-W	1-30-50-62-00-KST	20	P22	0.053Kg	MPP
KST-30-P22-W	1-30-50-64-00-KST	30	P22	0.109Kg	MPP

Legend: X = Suitable for profile .....

KSK-P Clamp ball prism







ADVANTAGES

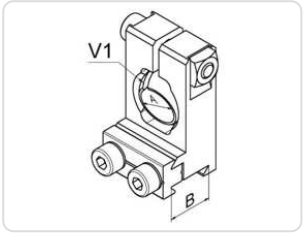
- V1 - Optimum adjustment via the ball joint

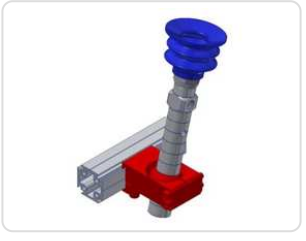
DESIGNATION	ITEM NO.	A	B	X	WEIGHT
KSK-10-P13	1-30-54-50-00-KSK	10	P13	SPP	
KSK-14-P13	1-30-54-58-00-KSK	14	P13	SPP	0.051Kg
KSK-14-P22	1-30-54-60-00-KSK	14	P22	MPP	
KSK-20-P22	1-30-54-70-00-KSK	20	P22	MPP	

Legend: X = Suitable for profile .....

KSK-P-W Clamp Prism Ball







ADVANTAGES

- V1 - Optimum adjustment via the ball joint

REMARK

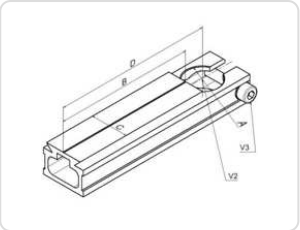
- Material aluminium

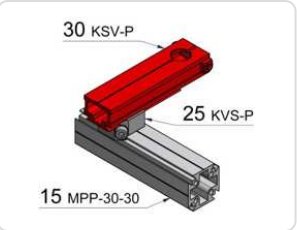
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KSK-10-P13-W	1-30-52-52-00-KSK	10	P13	0.027Kg	SPP
KSK-14-P22-W Clamp ball pivot	1-30-52-60-00-KSK	14	P22	0.076Kg	MPP
KSK-20-P22-W Clamp ball pivot	1-30-52-62-00-KSK	20	P22	0.12Kg	MPP

Legend: X = Suitable for profile .....

KSV-P Clamp Adjustable Prism







ADVANTAGES

- V1 - Special lengths are easy to realise
- V2 - round elements such as gripper arms, grippers and
- gripper fingers can be used without any problems
- V3 - Pipe clamp with screw and square steel nut

REMARK

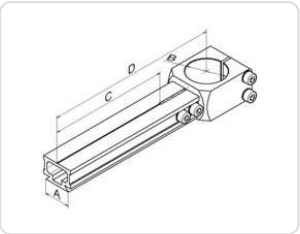
- Material aluminium

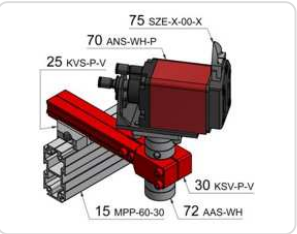
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
KSV-10-60-P13	1-30-51-00-00-KSV	10	60	P13	69	0.032Kg	SPP
KSV-10-140-P13	1-30-51-02-00-KSV	10	140	P13	149	0.061Kg	SPP
KSV-14-70-P13	1-30-51-04-00-KSV	14	70	P13	81	0.036Kg	SPP
KSV-14-150-P13	1-30-51-06-00-KSV	14	150	P13	161	0.066Kg	SPP
KSV-14-70-P22	1-30-51-10-00-KSV	14	70	P22	81	0.054Kg	MPP
KSV-14-160-P22	1-30-51-20-00-KSV	14	160	P22	171	0.116Kg	MPP
KSV-20-80-P22	1-30-51-30-00-KSV	20	80	P22	91	0.067Kg	MPP
KSV-20-180-P22	1-30-51-40-00-KSV	20	180	P22	191	0.118Kg	MPP

Legend: X = Suitable for profile .....

KSV-P-V Clamp Adjustable (Heavy Duty)







ADVANTAGES

- V1 - Special lengths are easy to realise
- V2 - round elements such as gripper arms, grippers and
- gripper fingers can be used without any problems
- V3 - Pipe clamp with screw and square steel nut

REMARK

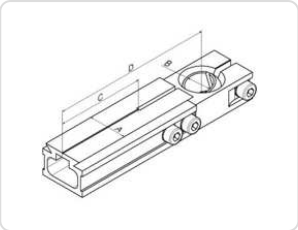
- Material aluminium

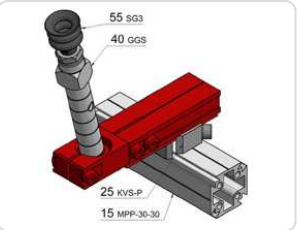
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
KSV-P22-14-50-V	1-30-55-10-00-KSV	P22	14	50	87	0.153Kg	MPP
KSV-P22-14-100-V	1-30-55-12-00-KSV	P22	14	100	137	0.153Kg	MPP
KSV-P22-14-150-V	1-30-55-14-00-KSV	P22	14	150	187	0.153Kg	MPP
KSV-P22-20-50-V	1-30-55-30-00-KSV	P22	20	50	91,5	0.153Kg	MPP
KSV-P22-20-100-V	1-30-55-32-00-KSV	P22	20	100	141,5	0.153Kg	MPP
KSV-P22-20-150-V	1-30-55-34-00-KSV	P22	20	150	191,5	0.153Kg	MPP
KSV-P22-30-50-V	1-30-55-50-00-KSV	P22	30	50	95	0.153Kg	MPP
KSV-P22-30-100-V	1-30-55-52-00-KSV	P22	30	100	145	0.153Kg	MPP
KSV-P22-30-150-V	1-30-55-54-00-KSV	P22	30	150	195	0.153Kg	MPP

Legend: X = Suitable for profile .....

KSV-K-P-V Adjustable clamping piece ball prism







ADVANTAGES

- V1 - Special lengths are easy to realise
- V2 - Optimum adjustment via the ball joint
- V3 - Pipe clamp with screw and square steel nut

REMARK

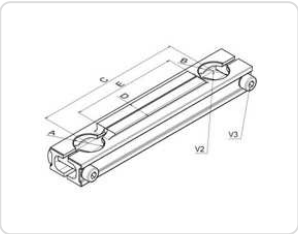
- Material aluminium
- Maximum setting angle: 20°

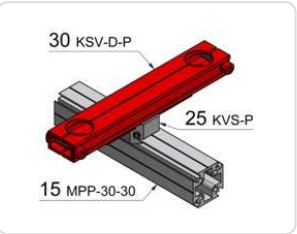
DESIGNATION	ITEM NO.	A	B	C	D	X
KSV-K-P13-10-30-V	1-30-58-10-00-KSV	P13	10	30	65,5	SPP
KSV-K-P13-10-60-V	1-30-58-12-00-KSV	P13	10	60	95,5	SPP
KSV-K-P13-10-90-V	1-30-58-14-00-KSV	P13	10	90	125,5	SPP
KSV-K-P13-14-30-V	1-30-58-30-00-KSV	P13	14	30	67,5	SPP
KSV-K-P13-14-60-V	1-30-58-32-00-KSV	P13	14	60	97,5	SPP
KSV-K-P13-14-90-V	1-30-58-34-00-KSV	P13	14	90	127,5	SPP
KSV-K-P22-14-50-V	1-30-58-50-00-KSV	P22	14	50	91,5	MPP
KSV-K-P22-14-100-V	1-30-58-52-00-KSV	P22	14	100	141,5	MPP
KSV-K-P22-14-150-V	1-30-58-54-00-KSV	P22	14	150	191,5	MPP
KSV-K-P22-20-50-V	1-30-58-70-00-KSV	P22	20	50	100	MPP
KSV-K-P22-20-100-V	1-30-58-72-00-KSV	P22	20	100	150	MPP
KSV-K-P22-20-150-V	1-30-58-74-00-KSV	P22	20	150	200	MPP

Legend: X = Suitable for profile .....

KSV-D-P Clamp Adjustable Prism Double







ADVANTAGES

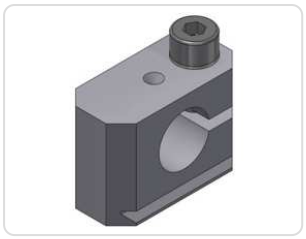
- V1 - no 2 clamping pieces are required, cheaper
- V2 - round elements such as gripper arms, grippers and gripper fingers can be used without any problems
- V3 - Pipe clamp with screw and square steel nut

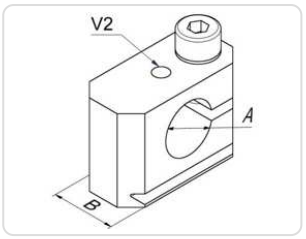
REMARK

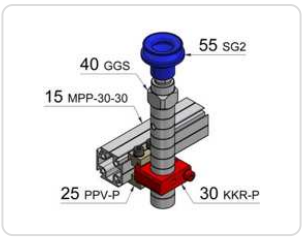
- Material aluminium
- Special dimensions possible on request

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
KSV-P13-D-10-10-60	1-30-51-80-00-KSV	10	10	60	P13	42	0.034Kg
KSV-P13-D-10-10-100	1-30-51-82-00-KSV	10	10	100	P13	82	0.049Kg
KSV-P13-D-14-14-80	1-30-51-84-00-KSV	14	14	80	P13	58	0.041Kg
KSV-P13-D-14-14-120	1-30-51-86-00-KSV	14	14	120	P13	98	0.055Kg
KSV-P22-D-14-14-100	1-30-51-88-00-KSV	14	14	100	P22	78	0.08Kg
KSV-P22-D-14-14-140	1-30-51-90-00-KSV	14	14	140	P22	118	0.107Kg
KSV-P22-D-20-20-120	1-30-51-92-00-KSV	20	20	120	P22	92	0.093Kg
KSV-P22-D-20-20-160	1-30-51-94-00-KSV	20	20	160	P22	132	0.118Kg

KKR-P Crossclamp Round prism







ADVANTAGES

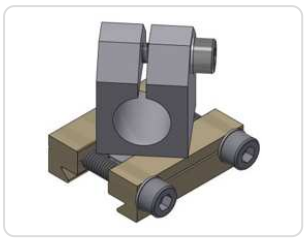
- V1 - round elements such as gripper arms, grippers and gripper fingers can be mounted on the PreciGrip profile
- V2 - centring for pinning the connection between gripper arm and clamping piece

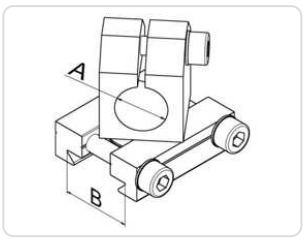
REMARK

- Material Aluminium

DESIGNATION	ITEM NO.	A	B	WEIGHT
KKR-10-P13	1-30-53-10-00-KKR	10	P13	0.06Kg
KKR-14-P13	1-30-53-14-00-KKR	14	P13	0.02Kg
KKR-14-P22	1-30-53-16-00-KKR	14	P22	0.03Kg
KKR-20-P22	1-30-53-18-00-KKR	20	P22	0.034Kg
KKR-30-P22	1-30-53-22-00-KKR	30	P22	0.08Kg

KSD-P Clamp Adjustable Prism







ADVANTAGES

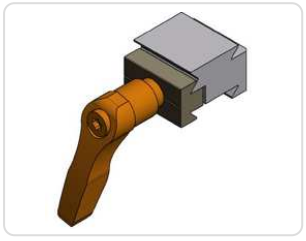
- V1 - round elements such as gripper arms, grippers and gripper fingers can be mounted on the PreciGrip profile
- V2 - 360° rotatable

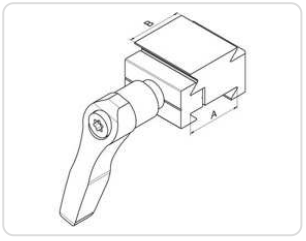
REMARK

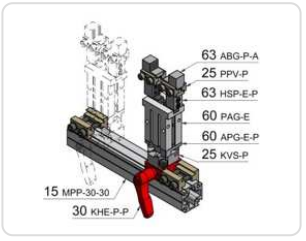
- Material aluminium

DESIGNATION	ITEM NO.	A	B	WEIGHT
KSD-10-P13	1-30-53-30-00-KSD	10	P13	0.07Kg
KSD-14-P13	1-30-53-34-00-KSD	14	P13	0.024Kg
KSD-14-P22	1-30-53-36-00-KSD	14	P22	
KSD-20-P22	1-30-53-38-00-KSD	20	P22	
KSD-30-P22	1-30-53-42-00-KSD	30	P22	

KHE-P-P Clamp with clamping lever







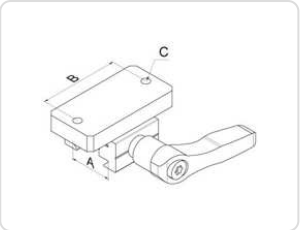
ADVANTAGES

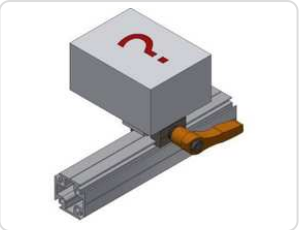
- V1 - simple adjustment without tools

DESIGNATION	ITEM NO.	A	B	WEIGHT
KHE-P22-P22	1-30-56-10-00-KHE	P22	P22	0.066Kg

UNV-P Universal Connector







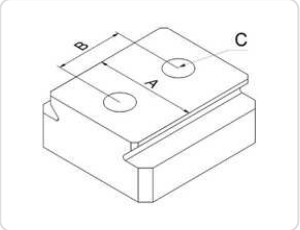
ADVANTAGES

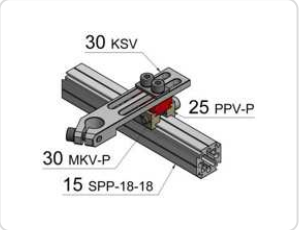
- V1 – Easy adjustment without tools.

DESIGNATION	ITEM NO.	A	B	C
UNV-P22-40-M5	1-30-62-10-00-UNV	P22	40	M5

MKV-P Clamp Connector Multi







ADVANTAGES

- V1 - Integration of clamping pieces
- V2 - flexible
- V3 - functionally applicable

REMARK

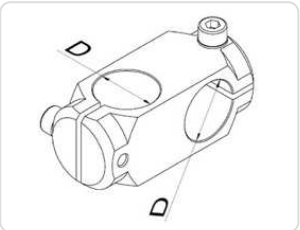
- This makes it possible to mount all clamping pieces with sliding block available on the market onto the PreciGrip profile
- OTHER SIZES ON REQUEST !!!

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MKV-P13-8-4	1-30-98-10-00-MKV	P13	8	M4	0.004Kg	PPV-P13
MKV-P13-9-5	1-30-98-12-00-MKV	P13	9	M5	0.004Kg	PPV-P13
MKV-P13-12-5	1-30-98-14-00-MKV	P13	12	M5	0.004Kg	PPV-P13
MKV-P22-9-5	1-30-98-16-00-MKV	P22	9	M5	0.01Kg	PPV-P22
MKV-P22-10-5	1-30-98-20-00-MKV	P22	10	M5	0.01Kg	PPV-P22
MKV-P22-12-5	1-30-98-24-00-MKV	P22	12	M5	0.013Kg	PPV-P22
MKV-P22-14-5	1-30-98-25-00-MKV	P22	14	M5	0.013Kg	PPV-P22
MKV-P22-20-5	1-30-98-28-00-MKV	P22	20	M5	0.013Kg	PPV-P22
MKV-P22-30-5	1-30-98-30-00-MKV	P22	30	M5	0.013Kg	PPV-P22
MKV-P22-20-6	1-30-98-32-00-MKV	P22	20	M6	0.013Kg	PPV-P22

Legend: X = suitable for profile .....

KKS Cross Clamp







ADVANTAGES

- V1 - For connecting pipes at 90°

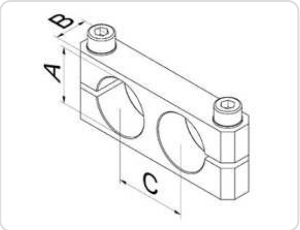
REMARK

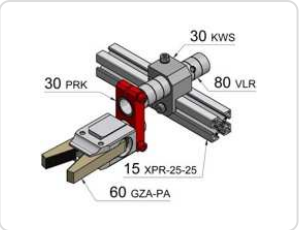
- Material aluminium

DESIGNATION	ITEM NO.	D	WEIGHT
KKS-10-10-16	1-30-13-12-00-KKS	10	0.015Kg
KKS-14-14-18	1-30-13-14-00-KKS	14	0.03Kg
KKS-20-20-26	1-30-13-16-00-KKS	20	0.063Kg
KKS-30-30-35	1-30-13-18-00-KKS	30	0.147Kg

PRK Parallel Clamp







ADVANTAGES

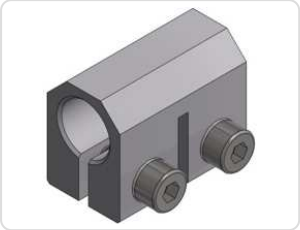
- V1 - For parallel connection of pipes

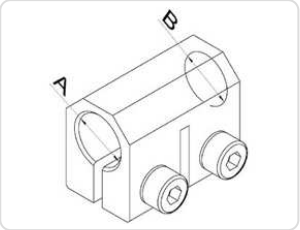
REMARK

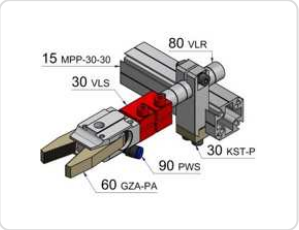
- Material aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PRK-10-10-16	1-30-13-32-00-PRK	10	8	16	0.011Kg
PRK-14-14-18	1-30-13-34-00-PRK	14	10	18	0.024Kg
PRK-20-20-26	1-30-13-36-00-PRK	20	12	26	0.04Kg
PRK-30-30-35	1-30-13-38-00-PRK	30	20	35	0.089Kg

VLS Extension Clamp







ADVANTAGES

- V1 - For extending components with round spigot or tubes

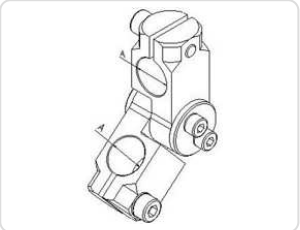
REMARK

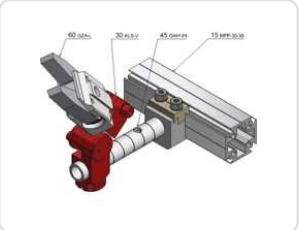
- Material aluminium

DESIGNATION	ITEM NO.	A	B	WEIGHT
VLS-10-10	1-30-13-60-00-VLS	10	10	0.017Kg
VLS-14-14	1-30-13-62-00-VLS	14	14	0.035Kg
VLS-20-20	1-30-13-64-00-VLS	20	20	0.068Kg

KLS-V Clamp variable







ADVANTAGES

- V1 - two round elements / gripper part shafts can be attached at a variably adjustable angle

REMARK

- Material: Aluminium

DESIGNATION	ITEM NO.	A	WEIGHT
KLS-14-14-V	1-30-18-10-00-KLS	14	0.062Kg
KLS-20-20-V	1-30-18-14-00-KLS	20	0.104Kg

40.0 Gripper Arm



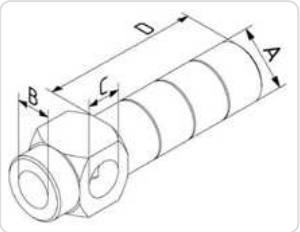
The gripper arms are used to integrate vacuum cups into the gripping system via a clamping piece.

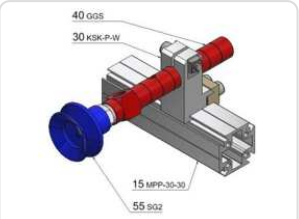
The following versions are available:

GRIPPER ARM RIGID

GGS Gripper Arm for Vacuum Cups







ADVANTAGES

- V1 - Marking grooves every 10mm on shaft for easy adjustment

REMARK

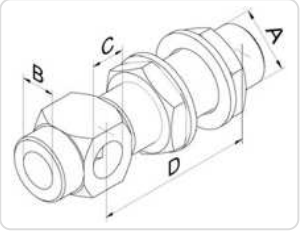
- Material aluminium
- Other lengths on request

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGS-10-5-5-30	1-40-10-00-00-GGS	10	M5	M5	30	0.008Kg
GGS-10-5-5-60	1-40-10-02-00-GGS	10	M5	M5	60	0.014Kg
GGS-10-5-5-90	1-40-10-04-00-GGS	10	M5	M5	90	0.019Kg
GGS-10-18-5-30	1-40-10-12-00-GGS	10	G1/8	M5	30	0.01Kg
GGS-10-18-5-60	1-40-10-14-00-GGS	10	G1/8	M5	60	0.015Kg
GGS-10-18-5-90	1-40-10-16-00-GGS	10	G1/8	M5	90	0.021Kg
GGS-14-18-18-40	1-40-10-20-00-GGS	14	G1/8	G1/8	40	0.02Kg
GGS-14-18-18-80	1-40-10-22-00-GGS	14	G1/8	G1/8	80	0.026Kg
GGS-14-18-18-120	1-40-10-24-00-GGS	14	G1/8	G1/8	120	0.034Kg
GGS-20-14-18-50	1-40-10-40-00-GGS	20	G1/4	G1/8	50	0.043Kg
GGS-20-14-18-100	1-40-10-42-00-GGS	20	G1/4	G1/8	100	0.049Kg
GGS-20-14-18-150	1-40-10-44-00-GGS	20	G1/4	G1/8	150	0.064Kg

GRIPPER ARM RIGID

GGS-G Gripper Arm for Vacuum Cups with threaded tube







ADVANTAGES

- V1 - simple clamping in bores

REMARK

- Material aluminium
- Scope of delivery:
- incl. 2 hexagon nuts and 2 lock washers
- Other lengths on request

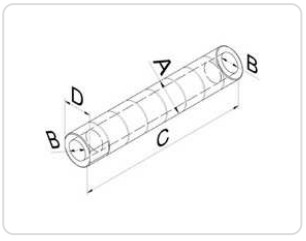
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGS-G-10-5-5-30	1-40-10-50-00-GGS	M10×1	M5	M5	30	0.014Kg
GGS-G-10-5-5-60	1-40-10-52-00-GGS	M10×1	M5	M5	60	0.02Kg

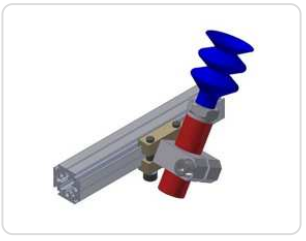
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGS-G-10-5-5-90	1-40-10-54-00-GGS	M10×1	M5	M5	90	0.02Kg
GGS-G-10-18-5-30	1-40-10-62-00-GGS	M10×1	G1/8	M5	30	0.02Kg
GGS-G-10-18-5-60	1-40-10-64-00-GGS	M10×1	G1/8	M5	60	0.02Kg
GGS-G-10-18-5-90	1-40-10-66-00-GGS	M10×1	G1/8	M5	90	0.02Kg
GGS-G-14-18-18-40	1-40-10-70-00-GGS	M14×1	G1/8	G1/8	40	0.03Kg
GGS-G-14-18-18-80	1-40-10-72-00-GGS	M14×1	G1/8	G1/8	80	0.04Kg
GGS-G-14-18-18-120	1-40-10-74-00-GGS	M14×1	G1/8	G1/8	120	0.04Kg
GGS-G-20-14-18-50	1-40-10-80-00-GGS	M20×1	G1/4	G1/8	50	0.05Kg
GGS-G-20-14-18-100	1-40-10-82-00-GGS	M20×1	G1/4	G1/8	100	0.07Kg
GGS-G-20-14-18-150	1-40-10-84-00-GGS	M20×1	G1/4	G1/8	150	0.08Kg

GRIPPER ARM RIGID

GGS-LS Gripper Arm for Vacuum Cups Airconnection end of shaft







ADVANTAGES

- V1 - simple clamping in bores

REMARK

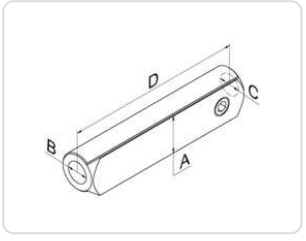
- Material Aluminium
- Other lengths on request

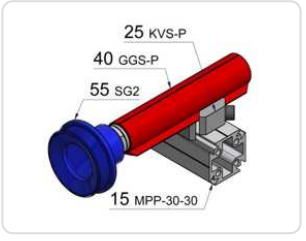
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGS-LS-10-5-5-30	1-40-11-00-00-GGS	10	M5	30	9	0.01Kg
GGS-LS-10-5-5-60	1-40-11-02-00-GGS	10	M5	60	9	0.01Kg
GGS-LS-10-5-5-90	1-40-11-04-00-GGS	10	M5	90	9	0.02Kg
GGS-LS-14-18-18-40	1-40-11-20-00-GGS	14	G1/8	40	13	0.01Kg
GGS-LS-14-18-18-80	1-40-11-22-00-GGS	14	G1/8	80	13	0.02Kg
GGS-LS-14-18-18-120	1-40-11-24-00-GGS	14	G1/8	120	13	0.03Kg
GGS-LS-20-14-14-50	1-40-11-40-00-GGS	20	G1/4	50	17	0.03Kg
GGS-LS-20-14-14-100	1-40-11-42-00-GGS	20	G1/4	100	17	0.057Kg
GGS-LS-20-14-14-150	1-40-11-44-00-GGS	20	G1/4	150	17	0.08Kg

GRIPPER ARM RIGID

GGS-P Gripper Arm Prism for Suction cups







ADVANTAGES

- V1 - Special lengths are easy to realise

REMARK

- Material: Aluminium

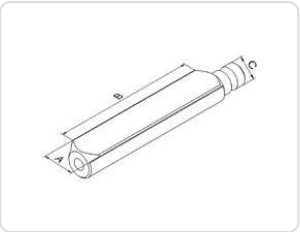
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGS-P13-5-60	1-40-50-10-00-GGS	P13	M5	M5	60	0.012Kg
GGS-P13-5-90	1-40-50-20-00-GGS	P13	M5	M5	90	0.018Kg
GGS-P22-14-100	1-40-50-40-00-GGS	P22	G1/4	G1/4	100	0.061Kg
GGS-P22-14-150	1-40-50-50-00-GGS	P22	G1/4	G1/4	150	0.092Kg

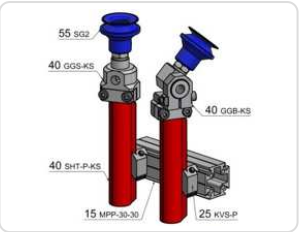
Legend: B = suitable for thread ... C = core hole bore

GRIPPER ARM RIGID

SHT-P-KS Shaft Gripper Arm Prism Headsystem







ADVANTAGES

- V1 - low-cost variant
- V2 - all gripper arm heads can be exchanged

REMARK

- Material aluminium

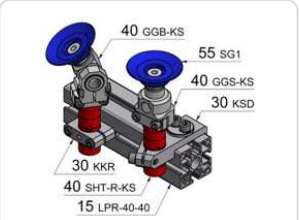
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
SHT-P13-30-KS8	1-40-60-02-00-SHT	P13	30	8	0.007Kg
SHT-P13-60	1-40-60-04-00-SHT	P13	60	8	0.013Kg
SHT-P13-90	1-40-60-06-00-SHT	P13	90	8	0.019Kg
SHT-P22-50	1-40-60-10-00-SHT	P22	50	18	0.035Kg
SHT-P22-100	1-40-60-12-00-SHT	P22	100	18	0.065Kg
SHT-P22-150	1-40-60-14-00-SHT	P22	150	18	0.096Kg

GRIPPER ARM RIGID

SHT-R-KS Shaft Gripper Arm Round Headsystem







ADVANTAGES

- V1 - low-cost variant
- V2 - all gripper arm heads can be exchanged

REMARK

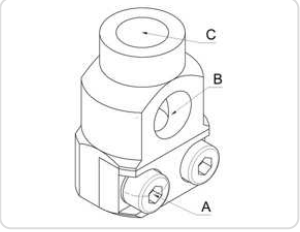
- Material Aluminium

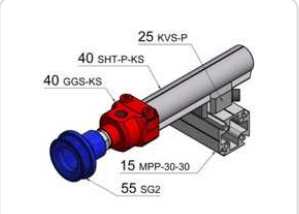
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
SHT-R-10-30-KS8	1-40-61-02-00-SHT	10	30	8	0.008Kg
SHT-R-10-60-KS8	1-40-61-04-00-SHT	10	60	8	0.012Kg
SHT-R-10-90-KS8	1-40-61-06-00-SHT	10	90	8	0.016Kg
SHT-R-14-40-KS8	1-40-61-10-00-SHT	14	40	8	
SHT-R-14-80-KS8	1-40-61-12-00-SHT	14	80	8	
SHT-R-14-120-KS8	1-40-61-14-00-SHT	14	120	8	
SHT-R-20-50-KS18	1-40-61-20-00-SHT	20	50	18	
SHT-R-20-100-KS18	1-40-61-22-00-SHT	20	100	18	
SHT-R-20-150-KS18	1-40-61-24-00-SHT	20	150	18	

GRIPPER ARM RIGID

GGS-KS Gripper Arm for Vacuum cups Headsystem







ADVANTAGES

- V1 - cost-effective variant for stock keeping
- V2 - Threaded clamping with steel square nut

REMARK

- Material Aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
GGS-KS8-5-5	1-40-62-02-00-GGS	8	M5	M5	0.02Kg	SHT-KS8

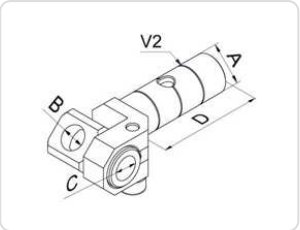
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
GGS-KS8-18-18	1-40-62-04-00-GGS	8	G1/8	G1/8	0.02Kg	SHT-KS8
GGS-KS18-18-18	1-40-62-10-00-GGS	18	G1/8	G1/8	0.06Kg	SHT-KS18
GGS-KS18-14-14	1-40-62-12-00-GGS	18	G1/4	G1/4	0.05Kg	SHT-KS18

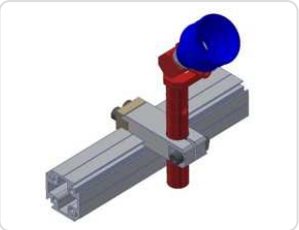
Legend: X= suitable for prism shaft SHT.....

GRIPPER ARM RIGID ADJUSTABLE HEAD

GGB Swivel Gripper Arm for Vacuum Cups







ADVANTAGES

- V1 - Adjustment of the position of the suction pad using a screw
- V2 - Marking grooves every 10 mm on the shaft for easy adjustment

REMARK

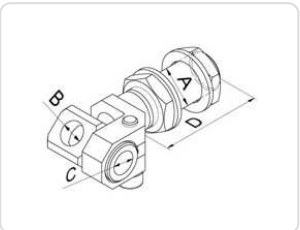
- Material aluminium
- Other lengths on request

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGB-10-5-5-30	1-40-12-02-00-GGB	10	M5	M5	30	0.015Kg
GGB-10-5-5-60	1-40-12-04-00-GGB	10	M5	M5	60	0.017Kg
GGB-10-5-5-90	1-40-12-06-00-GGB	10	M5	M5	90	0.02Kg
GGB-14-18-18-40	1-40-12-22-00-GGB	14	G1/8	G1/8	40	0.028Kg
GGB-14-18-18-80	1-40-12-24-00-GGB	14	G1/8	G1/8	80	0.037Kg
GGB-14-18-18-120	1-40-12-26-00-GGB	14	G1/8	G1/8	120	0.045Kg
GGB-20-14-18-50	1-40-12-40-00-GGB	20	G1/4	G1/8	50	0.07Kg
GGB-20-14-18-100	1-40-12-42-00-GGB	20	G1/4	G1/8	100	0.09Kg
GGB-20-14-18-150	1-40-12-44-00-GGB	20	G1/4	G1/8	150	0.1Kg
GGB-20-38-14-50	1-40-12-46-00-GGB	20	G3/8	G1/4	50	0.07Kg
GGB-20-38-14-100	1-40-12-48-00-GGB	20	G3/8	G1/4	100	0.09Kg
GGB-20-38-14-150	1-40-12-49-00-GGB	20	G3/8	G1/4	150	0.1Kg

GRIPPER ARM RIGID ADJUSTABLE HEAD

GGB-G Gripper arm Movable with threaded shank







ADVANTAGES

- V1 - simple fastening in a hole
- V2 - Adjusting the position of the suction pad using a screw

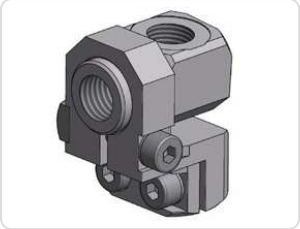
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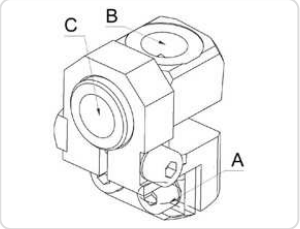
- Material aluminium
- Scope of delivery:
- incl. 2 hexagon nuts and 2 lock washers
- Other lengths on request

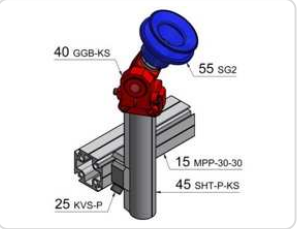
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGB-G-10-5-5-30 Gripper Arm for Vacuum Cups	1-40-12-52-00-GGB	M10×1	M5	M5	30	0.02Kg
GGB-G-10-5-5-60	1-40-12-54-00-GGB	M10×1	M5	M5	60	0.02Kg
GGB-G-10-5-5-90	1-40-12-56-00-GGB	M10×1	M5	M5	90	0.02Kg
GGB-G-14-18-18-40	1-40-12-62-00-GGB	M14×1	G1/8	G1/8	40	0.04Kg
GGB-G-14-18-18-80	1-40-12-64-00-GGB	M14×1	G1/8	G1/8	80	0.05Kg
GGB-G-14-18-18-120	1-40-12-66-00-GGB	M14×1	G1/8	G1/8	120	0.06Kg
GGB-G-20-14-18-50	1-40-12-70-00-GGB	M20×1	G1/4	G1/8	50	0.08Kg
GGB-G-20-14-18-100	1-40-12-72-00-GGB	M20×1	G1/4	G1/8	100	0.09Kg
GGB-G-20-14-18-150	1-40-12-74-00-GGB	M20×1	G1/4	G1/8	150	0.1Kg

GRIPPER ARM RIGID ADJUSTABLE HEAD

GGB-KS Gripper Arm Swivel for Vacuum Cups Headsystem







ADVANTAGES

- V1 - cost-effective variant for stock keeping
- V2 - Threaded clamping with steel square nut

REMARK

- Material Aluminium

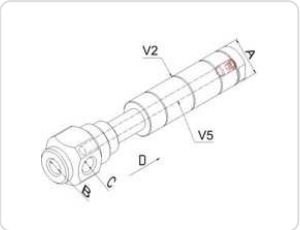
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
GGB-P13-5-5-KS	1-40-64-02-00-GGB	8	M5	M5	0.023Kg	SHT-KS8
GGB-P13-18-18-KS	1-40-64-04-00-GGB	8	G1/8	G1/8	0.032Kg	SHT-KS8
GGB-KS18-14-18	1-40-64-10-00-GGB	18	G1/4	G1/8	0.074Kg	SHT-KS18
GGB-KS18-38-14	1-40-64-12-00-GGB	18	G3/8	G1/4	0.083Kg	SHT-KS18

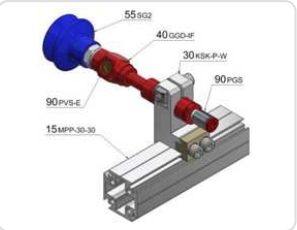
Legend: X = suitable for prism shaft SHT.....

GRIPPER ARM SPRING LOADED RIGID

GGD-IF Gripper Arm Non Rotational with Inside Spring





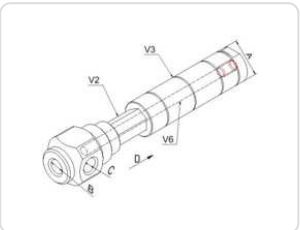


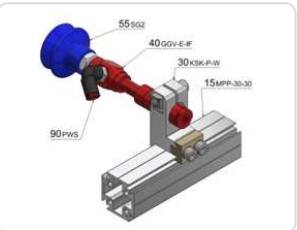
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGD-10-5-5-10-IF	1-40-32-04-00-GGD	10	M5	M5	10	0.012Kg
GGD-10-5-5-30-IF	1-40-32-06-00-GGD	10	M5	M5	30	0.016Kg
GGD-14-18-18-15-IF	1-40-32-10-00-GGD	14	G1/8	G1/8	15	0.027Kg
GGD-14-18-18-40-IF	1-40-32-12-00-GGD	14	G1/8	G1/8	40	0.036Kg
GGD-20-14-18-20-IF	1-40-32-16-00-GGD	20	G1/4	G1/8	20	0.058Kg
GGD-20-14-18-20-IF	1-40-32-18-00-GGD	20	G1/4	G1/8	50	0.089Kg

GRIPPER ARM SPRING LOADED RIGID

GGV-E-IF Gripper Arm Non Rotational with Inside Spring





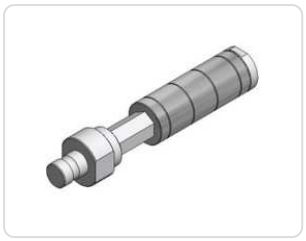
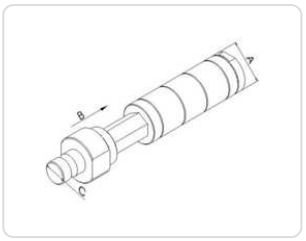
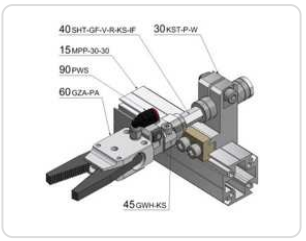


DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGV-E-10-5-5-10-IF	1-40-34-04-00-GGV	10	M5	M5	10	0.012Kg
GGV-E-10-5-5-30-IF	1-40-34-06-00-GGV	10	M5	M5	30	0.017Kg
GGV-E-14-18-18-15-IF	1-40-34-10-00-GGV	14	G1/8	G1/8	15	0.027Kg
GGV-E-14-18-18-40-IF	1-40-34-12-00-GGV	14	G1/8	G1/8	40	0.036Kg
GGV-E-20-14-18-20-IF	1-40-34-16-00-GGV	20	G1/4	G1/8	20	0.058Kg

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGV-E-20-14-18-50-IF	1-40-34-18-00-GGV	20	G1/4	G1/8	50	0.091Kg

GRIPPER ARM SPRING LOADED RIGID

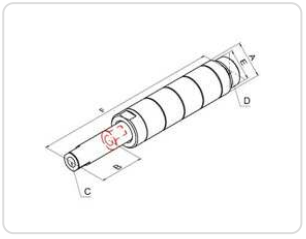
SHT-GF-V-R-KS-IF Shaft for Gripper Arm Head System

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
SHT-GF-V-R-10-10-KS8-IF	1-40-38-04-00-SHT	10	10	KS8	0.013Kg
SHT-GF-V-R-10-30-KS8-IF	1-40-38-06-00-SHT	10	30	KS8	0.018Kg
SHT-GF-V-R-14-15-KS8-IF	1-40-38-10-00-SHT	14	15	KS8	0.022Kg
SHT-GF-V-R-14-40-KS8-IF	1-40-38-12-00-SHT	14	40	KS8	0.032Kg
SHT-GF-V-R-20-20-KS8-IF	1-40-38-16-00-SHT	20	20	KS18	0.055Kg
SHT-GF-V-R-20-50-KS8-IF	1-40-38-18-00-SHT	20	50	KS18	0.087Kg

GRIPPER ARM SPRING LOADED RIGID

VST Vacuum Spring Plunger


ADVANTAGES

- V1 - Spring plunger - retraction with vacuum:
- the spring plunger is pressurised with vacuum. When the suction cup touches the component to be gripped, the cylinder retracts automatically due to the force of the vacuum. When the vacuum is switched off, the cylinder extends again by means of the spring force.

REMARK

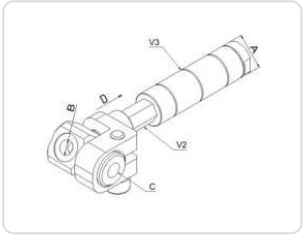
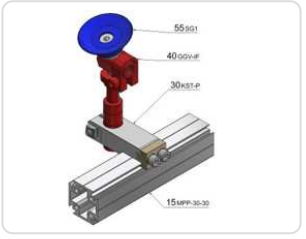
- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- Use filtered and dried air

DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT
VST-14-5-5-20	1-40-48-10-00-VST	14	20	M5	M5	M12×1	64,5	0.01Kg
VST-20-18-5-30	1-40-48-20-00-VST	20	30	G1/8	G1/8	M17×1	83,5	0.01Kg

Legend: B = stroke C = Threaded connection for suction cup D = Air connection F = Total length home position

GRIPPER ARM SPRING LOADED ADJUSTABLE HEAD

GGV-IF Gripper Arm Spring Loaded with Inside Spring

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GGV-10-5-5-10-IF	1-40-36-04-00-GGV	10	M5	M5	10	0.019Kg
GGV-10-5-5-30-IF	1-40-36-06-00-GGV	10	M5	M5	30	0.024Kg
GGV-14-18-18-15-IF	1-40-36-10-00-GGV	14	G1/8	G1/8	15	0.034Kg
GGV-14-18-18-40-IF	1-40-36-12-00-GGV	14	G1/8	G1/8	40	0.044Kg
GGV-20-14-18-20-IF	1-40-36-16-00-GGV	20	G1/4	G1/8	20	0.085Kg
GGV-20-14-18-50-IF	1-40-36-18-00-GGV	20	G1/4	G1/8	50	0.116Kg

45.0 Gripper Arms for Function Elements

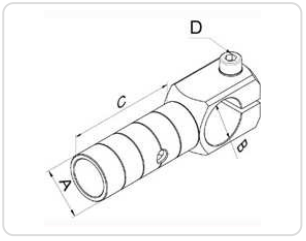


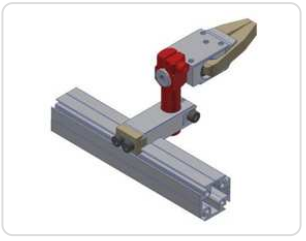
The gripper arms for active elements are used to integrate grippers, gripper fingers, magnetic grippers, inner bellows grippers or special parts into the gripping system via a round clamp or prism clamp.

GRIPPER ARM RIGID

GWR Angle Gripper Arm







ADVANTAGES

- V1- Stable design
- V2 - Marking grooves every 10mm on shaft for easy adjustment

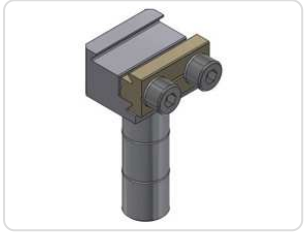
REMARK

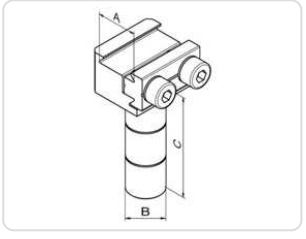
- Material aluminium

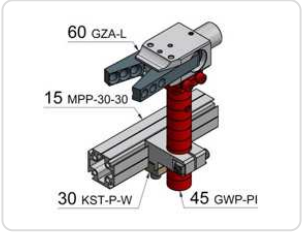
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	D
GWR-10-10-10	1-45-10-01-00-GWR	10	10	10	0.007Kg	
GWR-10-10-30	1-45-10-02-00-GWR	10	10	30	0.016Kg	
GWR-10-10-60	1-45-10-04-00-GWR	10	10	60	0.009Kg	
GWR-10-10-90	1-45-10-06-00-GWR	10	10	90	0.013Kg	
GWR-14-14-14	1-45-10-07-00-GWR	14	14	14	0.018Kg	
GWR-14-14-40 Angle Gripper Arm	1-45-10-08-00-GWR	14	14	40	0.021Kg	
GWR-14-14-80	1-45-10-10-00-GWR	14	14	80	0.03Kg	
GWR-14-14-120	1-45-10-12-00-GWR	14	14	120	0.038Kg	
GWR-20-20-20	1-45-10-13-00-GWR	20	20	20	0.032Kg	
GWR-20-20-50	1-45-10-14-00-GWR	20	20	50	0.055Kg	
GWR-20-20-100	1-45-10-16-00-GWR	20	20	100	0.065Kg	
GWR-20-20-150	1-45-10-18-00-GWR	20	20	150	0.073Kg	
GWR-30-30-80	1-45-10-26-00-GWR	30	30	80	0.148Kg	2*M6
GWR-30-30-140	1-45-10-28-00-GWR	30	30	140	0.214Kg	2*M6
GWR-30-30-200	1-45-10-30-00-GWR	30	30	200	0.216Kg	2*M6

GRIPPER ARM RIGID

GWP-PI Elbow Gripper Arm Prism Inside







ADVANTAGES

- V1 - Very precise clamping option, e.g. for gripper fingers GFI with prism
- V2 - Marking grooves every 10 mm on the shaft for easy adjustment

REMARK

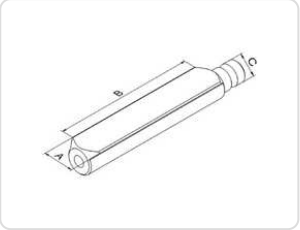
- Material aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
GWP-16-14-20 Elbow Gripper Arm Prism	1-45-50-16-00-GWP	P22	20	30	
GWP-PI-13-10-30	1-45-50-20-00-GWP	P13	10	30	0.019Kg
GWP-PI-13-10-60	1-45-50-22-00-GWP	P13	10	60	0.023Kg
GWP-PI-13-10-90	1-45-50-24-00-GWP	P13	10	90	0.028Kg
GWP-PI-13-14-40	1-45-50-26-00-GWP	P13	14	40	0.025Kg
GWP-PI-13-14-80	1-45-50-28-00-GWP	P13	14	80	0.034Kg
GWP-PI-13-14-120	1-45-50-30-00-GWP	P13	14	120	0.042Kg
GWP-PI-22-14-40	1-45-50-32-00-GWP	P22	14	40	0.049Kg
GWP-PI-22-14-80	1-45-50-34-00-GWP	P22	14	80	0.057Kg
GWP-PI-22-14-120	1-45-50-36-00-GWP	P22	14	120	0.066Kg
GWP-PI-22-20-50	1-45-50-38-00-GWP	P22	20	50	0.06Kg
GWP-PI-22-20-100	1-45-50-40-00-GWP	P22	20	100	0.076Kg
GWP-PI-22-20-150	1-45-50-42-00-GWP	P22	20	150	0.092Kg

GRIPPER ARM RIGID

SHT-P-KS Shaft Gripper Arm Prism Headsystem







ADVANTAGES

- V1 - low-cost variant
- V2 - all gripper arm heads can be exchanged

REMARK

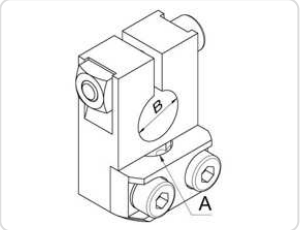
- Material aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
SHT-P13-30-KS8	1-40-60-02-00-SHT	P13	30	8	0.007Kg
SHT-P13-60	1-40-60-04-00-SHT	P13	60	8	0.013Kg
SHT-P13-90	1-40-60-06-00-SHT	P13	90	8	0.019Kg
SHT-P22-50	1-40-60-10-00-SHT	P22	50	18	0.035Kg
SHT-P22-100	1-40-60-12-00-SHT	P22	100	18	0.065Kg
SHT-P22-150	1-40-60-14-00-SHT	P22	150	18	0.096Kg

GRIPPER ARM RIGID

GWR-KS Angle Gripper Arm Headsystem







ADVANTAGES

- V1 - low-cost variant for stock keeping
- V2 - Threaded clamping with steel square nuts

REMARK

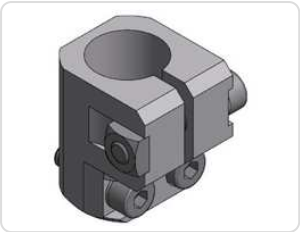
- Material Aluminium

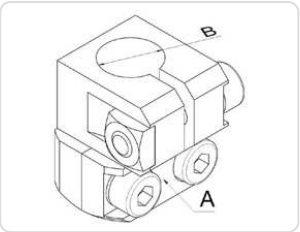
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GWR-KS8-14	1-45-60-02-00-GWR	8	10	0.021Kg	SHT-KS8
GWR-KS8-14	1-45-60-04-00-GWR	8	14	0.021Kg	SHT-KS8
GWR-KS18-14	1-45-60-10-00-GWR	18	14	0.049Kg	SHT-KS18
GWR-KS18-20	1-45-60-12-00-GWR	18	20	0.046Kg	SHT-KS18
GWR-KS18-30	1-45-60-14-00-GWR	18	30	0.087Kg	SHT-KS18

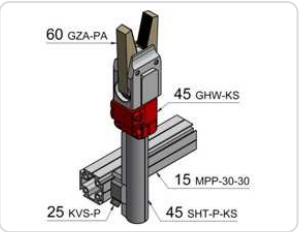
Legend: X= suitable for prism shaft SHT-KS

GRIPPER ARM RIGID

GHW-KS Gripper Arm Holder Operative Elements Headsystem







ADVANTAGES

- V1 - low-cost variant for storage
- V2 - threaded clamping with steel square nuts

REMARK

- Material Aluminium

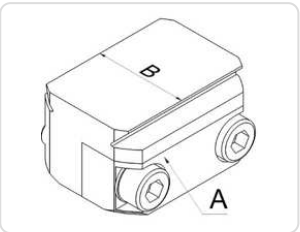
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GHW-KS8-10	1-45-60-50-00-GHW	8	10	0.02Kg	SHT-KS8
GHW-KS8-14	1-45-60-52-00-GHW	8	14	0.03Kg	SHT-KS8
GHW-KS18-14	1-45-60-60-00-GHW	18	14	0.05Kg	SHT-KS18
GHW-KS18-20	1-45-60-62-00-GHW	18	20	0.07Kg	SHT-KS18

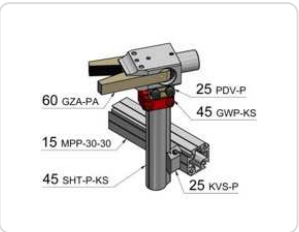
Legend: X = suitable for prism shaft SHT-KS

GRIPPER ARM RIGID

GWP-KS Gripper angle prism Headsystem







ADVANTAGES

- V1 - cost-effective variant for storage

REMARK

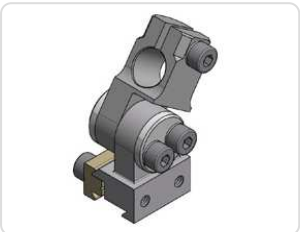
- Material: Aluminium

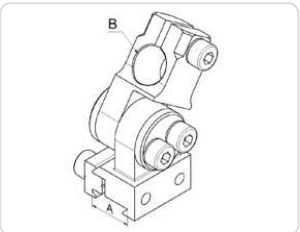
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GWP-KS8-PA-13	1-45-64-02-00-GWP	8	P13	0.013Kg	SHT-KS8
GWP-KS18-PA-22	1-45-64-04-00-GWP	18	P22	0.037Kg	SHT-KS18

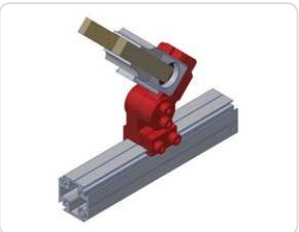
Legend: X = suitable for prism shaft SHT-KS

GRIPPER ARM ADJUSTABLE HEAD

GVR-KS-P-0 Elbow Gripper Arm Prism Headsystem







ADVANTAGES

- V1 - inexpensive variant for stock keeping
- V2 -very stable clamping at the joint

REMARK

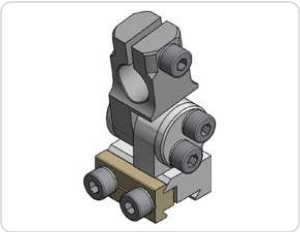
- Material Aluminium

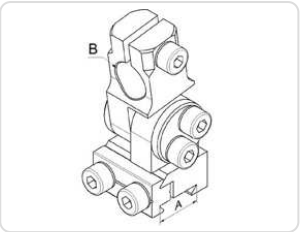
DESIGNATION	ITEM NO.	A	B	X
GVR-KS-P13-0-10	1-45-63-10-00-GVR	P13	10	SHT-KS-P13
GVR-KS-P22-0-20	1-45-63-14-00-GVR	P22	20	SHT-KS-P22

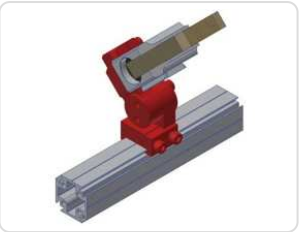
Legend: X = suitable for prism shaft SHT-KS-P

GRIPPER ARM ADJUSTABLE HEAD

GVR-KS-P-90 Elbow Gripper Arm Prism Headsystem 90°







ADVANTAGES

- V1 - inexpensive variant for stock keeping
- V2 - very stable clamping at the joint

REMARK

- Material Aluminium

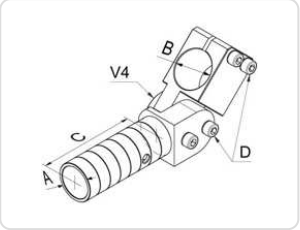
DESIGNATION	ITEM NO.	A	B	X
GVR-KS-P13-90-10	1-45-63-20-00-GVR	P13	10	SHT-KS-P13
GVR-KS-P22-90-20	1-45-63-24-00-GVR	P22	20	SHT-KS-P22

Legend: X = suitable for prism shaft SHT-KS-P

GRIPPER ARM ADJUSTABLE HEAD

GVR Elbow Gripper Arm





ADVANTAGES

- V1 - Clamping of the rotation with 2x screws
- instead of conventional with 1x screw
- V2 - 3 identical screws one tool
- V3 - Marking grooves every 10 mm on the shaft for easy adjustment
- V4 - Super stable clamping at the joint

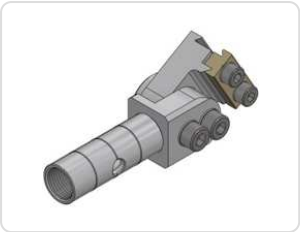
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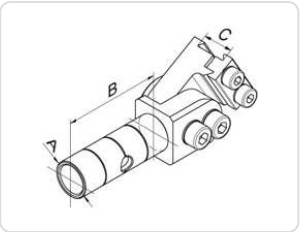
- Material aluminium
- in future all GVR/GWR Ø30 with 2 screws

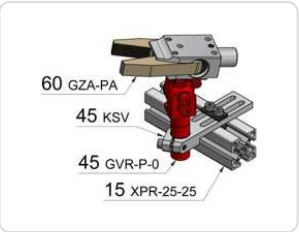
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	D
GVR-10-10-30	1-45-12-02-00-GVR	10	10	30	0.027Kg	
GVR-10-10-60	1-45-12-04-00-GVR	10	10	60	0.032Kg	
GVR-10-10-90	1-45-12-06-00-GVR	10	10	90	0.036Kg	
GVR-14-14-40	1-45-12-08-00-GVR	14	14	40	0.054Kg	
GVR-14-14-80	1-45-12-10-00-GVR	14	14	80	0.063Kg	
GVR-14-14-120	1-45-12-12-00-GVR	14	14	120	0.07Kg	
GVR-20-20-50	1-45-12-14-00-GVR	20	20	50	0.088Kg	
GVR-20-20-100	1-45-12-16-00-GVR	20	20	100	0.103Kg	
GVR-20-20-150	1-45-12-18-00-GVR	20	20	150	0.13Kg	
GVR-20-30-50	1-45-12-20-00-GVR	20	30	50	0.141Kg	
GVR-20-30-100	1-45-12-22-00-GVR	20	30	100	0.155Kg	
GVR-20-30-150	1-45-12-24-00-GVR	20	30	150	0.173Kg	
GVR-30-30-80	1-45-12-26-00-GVR	30	30	80	0.284Kg	2*M6
GVR-30-30-140	1-45-12-28-00-GVR	30	30	140	0.318Kg	2*M6
GVR-30-30-200	1-45-12-30-00-GVR	30	30	200	0.352Kg	2*M6
GVR-10-14-30	1-45-12-40-00-GVR	10	14	30	0.035Kg	
GVR-10-14-60	1-45-12-42-00-GVR	10	14	60	0.039Kg	
GVR-10-14-90	1-45-12-44-00-GVR	10	14	90	0.041Kg	

GRIPPER ARM ADJUSTABLE HEAD

GVR-P-0 Elbow Gripper Arm Prism







ADVANTAGES

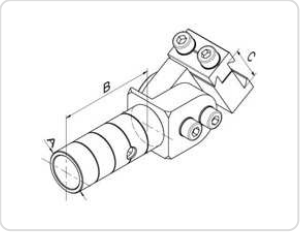
- V1 - Very precise clamping option e.g. for
- GZA-P gripper
- V2 - compatible gripper arm: commercially available
- clamping piece - PreciGrip active element
- V3 - Marking grooves every 10mm on shaft for easy adjustment
- V4 - Super-stable clamping at the joint

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
GVR-14-40-P13-0	1-45-40-10-00-GVR	14	40	P13	0.054Kg
GVR-14-80-P13-0	1-45-40-12-00-GVR	14	80	P13	0.06Kg
GVR-14-120-P13-0	1-45-40-14-00-GVR	14	120	P13	0.07Kg
GVR-20-50-P22-0	1-45-40-20-00-GVR	20	50	P22	0.104Kg
GVR-20-100-P22-0	1-45-40-22-00-GVR	20	100	P22	0.118Kg
GVR-20-150-P22-0	1-45-40-24-00-GVR	20	150	P22	0.134Kg

GRIPPER ARM ADJUSTABLE HEAD

GVR-P-90 Elbow Gripper Arm Prism 90°







ADVANTAGES

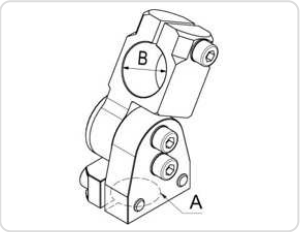
- V1 - Very precise clamping option e.g. for
- GZA-P gripper
- V2 - compatible gripper arm: commercially available
- clamping piece - PreciGrip active element
- V3 - Marking grooves every 10mm on shaft for easy adjustment
- V4 - Super-stable clamping at the joint

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
GVR-14-40-P13-90	1-45-41-10-00-GVR	14	40	P13	0.054Kg
GVR-14-80-P13-90	1-45-41-12-00-GVR	14	80	P13	0.062Kg
GVR-14-120-P13-90	1-45-41-14-00-GVR	14	120	P13	0.07Kg
GVR-20-50-P22-90	1-45-41-20-00-GVR	20	50	P22	0.106Kg
GVR-20-100-P22-90	1-45-41-22-00-GVR	20	100	P22	0.12Kg
GVR-20-150-P22-90	1-45-41-24-00-GVR	20	150	P22	0.136Kg

GRIPPER ARM ADJUSTABLE HEAD

GVR-KS-R Elbow Gripper Arm Headsystem







ADVANTAGES

- V1 - cost-effective variant for stock keeping

REMARK

- Material Aluminium

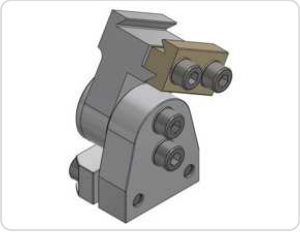
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GVR-KS8-R-10	1-45-62-02-00-GVR	8	10	0.029Kg	SHT-KS8

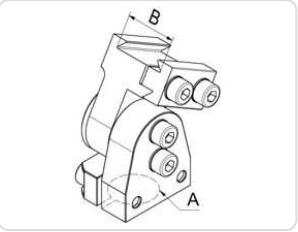
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GVR-KS8-R-14	1-45-62-04-00-GVR	8	14	0.04Kg	SHT-KS8
GVR-KS18-R-14	1-45-62-10-00-GVR	18	14	0.065Kg	SHT-KS18
GVR-KS18-R-20	1-45-62-12-00-GVR	18	20	0.079Kg	SHT-KS18
GVR-KS18-R-30	1-45-62-14-00-GVR	18	30	0.165Kg	SHT-KS18

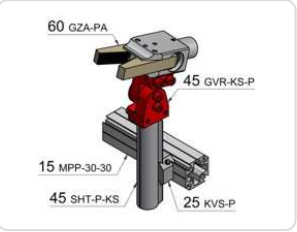
Legend: X = suitable for prism shaft SHT-KS

GRIPPER ARM ADJUSTABLE HEAD

GVR-KS-P Elbow Gripper Arm prism Headsystem







ADVANTAGES

- V1 - low-cost variant for stock keeping
- V2 - swivelling prism clamp

REMARK

- Material Aluminium

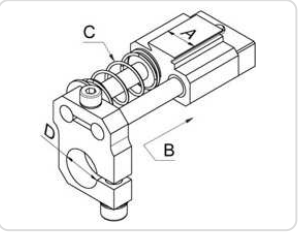
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
GVR-KS8-P13	1-45-62-30-00-GVR	8	P13	0.053Kg	SHT-KS8
GVR-KS18-P22	1-45-62-36-00-GVR	18	P22	0.109Kg	SHT-KS18

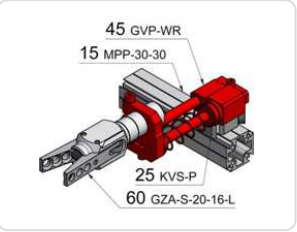
Legend: X = suitable for prism shaft SHT-KS

GRIPPER ARM SPRING LOADED

GVP-WR Elbow Angle Gripper Arm Spring Loaded Non Rotation







ADVANTAGES

- V1 - Spring element with ball guide
- V2 - Actuating element like grippers,
- sprue cutters can be used spring-loaded
- V3 - available in 2 spring forces

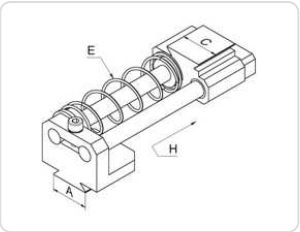
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
GVP-WR-P13-20-W-10	1-45-30-17-00-GVP	P13	20	W	10	14N	
GVP-WR-P13-50-W-10	1-45-30-18-00-GVP	P13	50	W	10	14N	
GVP-14-20-20-W-WR	1-45-30-20-00-GVP	P13	20	W	14	14N	
GVP-14-20-20-H-WR	1-45-30-22-00-GVP	P13	20	H	14	22N	
GVP-WR-P13-50-W-14	1-45-30-24-00-GVP	P13	50	W	14	14N	
GVP-14-50-20-H-WR	1-45-30-26-00-GVP	P13	50	H	14	22N	
GVP-WR-P22-20-W-20	1-45-30-30-00-GVP	P22	20	W	20	19N	0.159Kg
GVP-20-20-22-H-WR	1-45-30-32-00-GVP	P22	20	H	20	38N	
GVP-20-50-22-W-WR	1-45-30-34-00-GVP	P22	50	W	20	31N	
GVP-20-50-22-H-WR	1-45-30-36-00-GVP	P22	50	H	20	37N	
GVP-WR-P22-20-W-14	1-45-30-40-00-GVP	P22	20	W	14	19N	0.159Kg
GVP-WR-P22-50-W-14	1-45-30-44-00-GVP	P22	50	W	14	31N	

Legend: B = Stroke C = Spring force (W - soft / H - hard) E = Force

GRIPPER ARM SPRING LOADED

GVP-WP Elbow Angle Gripper Arm Spring Loaded Non Rotation







ADVANTAGES

- V1 - Spring element with ball guide
- V2 - Actuating elements like grippers,
- sprue cutters can be used spring-loaded
- V3 - available in 2 spring forces

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
GVP-WP-P13-20-P13-W	1-45-31-20-00-GVP	P13	20	P13	W	14N	0.084Kg
GVP-WP-P13-20-P13-H	1-45-31-22-00-GVP	P13	20	P13	H	22N	0.085Kg
GVP-WP-P13-50-P13-W	1-45-31-24-00-GVP	P13	50	P13	W	14N	0.098Kg
GVP-WP-P13-50-P13-H	1-45-31-26-00-GVP	P13	50	P13	H	22N	0.1Kg
GVP-WP-P22-20-P22-W	1-45-31-30-00-GVP	P22	20	P22	W	19N	0.155Kg
GVP-WP-P22-20-P22-H	1-45-31-32-00-GVP	P22	20	P22	H	38N	0.156Kg
GVP-WP-P22-50-P22-W	1-45-31-34-00-GVP	P22	50	P22	W	31N	0.18Kg
GVP-WP-P22-50-P22-H	1-45-31-36-00-GVP	P22	50	P22	H	37N	0.18Kg

Legend: B = Stroke D = Spring force (W - soft / H - hard) E = Force

55.0 Vacuum Cups - Complete



Vacuum cups are available in different shapes:

- Oval - Round - with 1 edge - with 2 edges - with 3 edges

for different materials:

- High-performance elastomer - Polyurethane elastomer - Nitrile

- Silicone - High-temperature

for different applications:

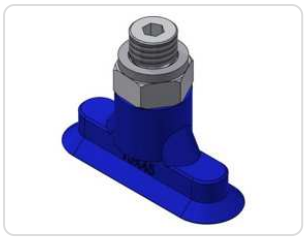
- smooth surfaces - grained surfaces - paper

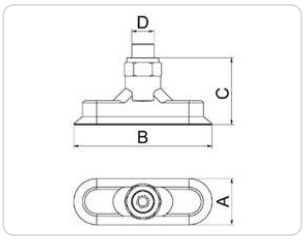
- cardboard - glass - sheet metal - - wood

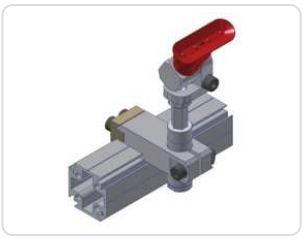
for different handling weights:

- from 0.11 to 180 N depending on the surface finish

SG0 Vacuum Cup Oval (complete)







ADVANTAGES

- V1 - extremely lightweight (aluminium adapter)
- V2 - All adapters with hex socket
- V3 - Quick installation
- V4 - for assembly with a ring spanner or
- hex key

REMARK

- To protect the material, all suction cups are only fitted with the adapter upon request.
- Availability is guaranteed.
- Adapters with internal thread available on request
- Contents:
- ASG adapter and PDR pneumatic sealing ring

INFO

- Material: Silicone (S)
- Colour: white
- Shore hardness: 55 +/- 5
- Temperature range: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Food contact suitability: ***
- Application: Textured surfaces
- For optimal impression results, please clean the
- suction surfaces with a lint-free cloth
- and acetone !
- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Application: Painting plastic parts,
- leaves no marks
- For optimal impression results, please clean the
- suction surfaces with a lint-free cloth
- and acetone!
- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **

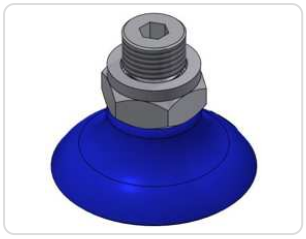
DESIGNATION	ITEM NO.	A	B	C	D	L	M	N	O	WEIGHT	X
SGO-2-4-HE-5	1-55-10-10-00-SG0	2	4	11	M5	1	1N	ASG-10-5	HE	0.001Kg	-
SGO-3,5-7-HE-5	1-55-10-14-00-SG0	3,5	7	12	M5	1	3N	ASG-10-5	HE	0.001Kg	-
SGO-5-15-HE-5	1-55-10-18-00-SG0	5	15	18	M5	1	4N	ASG-12-5	HE	0.002Kg	-
SGO-6-18-HE-5	1-55-10-22-00-SG0	6	18	18	M5	1	4N	ASG-12-5	HE	0.002Kg	-
SG0-8-24-HE-5	1-55-10-24-00-SG0	8	24	18	M5	1	8N	ASG-13-5	HE	0.002Kg	-
SGO-8-24-HE-18	1-55-10-26-00-SG0	8	24	18	G1/8	1	8N	ASG-14-18	HE	0.005Kg	-
SGO-10-30-HE-18	1-55-10-30-00-SG0	10	30	18	G1/8	1	8N	ASG-14-18	HE	0.005Kg	-
SG0-15-45-HE-18	1-55-10-32-00-SG0	15	45	27	G1/8	2,5	10N	ASG-18-18	HE	0.013Kg	1
SGO-15-45-HE-14	1-55-10-34-00-SG0	15	45	28	G1/4	2,5	10N	ASG-16-14	HE	0.017Kg	1
SG0-20-60-HE-18	1-55-10-36-00-SG0	20	60	28	G1/8	2,5	20N	ASG-18-18	HE	0.016Kg	1
SGO-20-60-HE-14	1-55-10-38-00-SG0	20	60	28	G1/4	2,5	20N	ASG-16-14	HE	0.019Kg	1

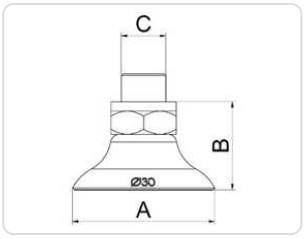
DESIGNATION	ITEM NO.	A	B	C	D	L	M	N	O	WEIGHT	X
SG0-25-75-HE-18	1-55-10-40-00-SG0	25	75	36	G1/8	3	30N	ASG-18-18	HE	0.023Kg	2
SGO-25-75-HE-14	1-55-10-42-00-SG0	25	75	36	G1/4	3	30N	ASG-16-14	HE	0.028Kg	2
SG0-30-90-HE-18	1-55-10-43-00-SG0	30	90	38	G1/8	3,5	35N	ASG-18-18	HE	0.033Kg	2
SGO-30-90-HE-14	1-55-10-44-00-SG0	30	90	38	G1/4	3,5	35N	ASG-16-14	HE	0.035Kg	2
SG0-2-4-N-5	1-55-11-10-00-SG0	2	4	11	M5	1	1N	ASG-10-5	NBR	0.001Kg	-
SG0-3,5-7-N-5	1-55-11-14-00-SG0	3,5	7	12	M5	1	3N	ASG-10-5	NBR	0.001Kg	-
SG0-5-15-N-5	1-55-11-18-00-SG0	5	15	18	M5	1	4N	ASG-12-5	NBR	0.002Kg	-
SG0-6-18-N-5	1-55-11-22-00-SG0	6	18	18	M5	1	4N	ASG-12-5	NBR	0.002Kg	-
SG0-8-24-N-18 Vacuum Cup Oval	1-55-11-26-00-SG0	8	24	18	G1/8	1	8N	ASG-14-18	NBR	0.005Kg	-
SG0-10-30-N-18	1-55-11-28-00-SG0	10	30	18	M5	1	8N	ASG-13-5	NBR	0.005Kg	-
SG0-10-30-N-18	1-55-11-30-00-SG0	10	30	18	G1/8	1	8N	ASG-14-18	NBR	0.005Kg	-
SG0-15-45-N-18	1-55-11-32-00-SG0	15	45	27	G1/8	2,5	10N	ASG-18-18	NBR	0.013Kg	1
SG0-15-45-N-14	1-55-11-34-00-SG0	15	45	28	G1/4	2,5	10N	ASG-16-14	NBR	0.017Kg	1
SG0-20-60-N-18	1-55-11-36-00-SG0	20	60	28	G1/8	2,5	20N	ASG-18-18	NBR	0.016Kg	1
SG0-20-60-N-14	1-55-11-38-00-SG0	20	60	28	G1/4	2,5	20N	ASG-16-14	NBR	0.019Kg	1
SG0-25-75-N-18	1-55-11-40-00-SG0	25	75	36	G1/8	3	30N	ASG-18-18	NBR	0.023Kg	2
SG0-25-75-N-14	1-55-11-42-00-SG0	25	75	36	G1/4	3	30N	ASG-16-14	NBR	0.028Kg	2
SG0-30-90-N-18	1-55-11-43-00-SG0	30	90	38	G1/8	3,5	35N	ASG-18-18	NBR	0.033Kg	2
SG0-30-90-N-14	1-55-11-44-00-SG0	30	90	38	G1/4	3,5	35N	ASG-16-14	NBR	0.035Kg	2
SG0-2-4-S-5	1-55-12-02-00-SG0	2	4	11	M5	1	1N	ASG-10-5	S	0.001Kg	-
SG0-3,5-7-S-5	1-55-12-04-00-SG0	3,5	7	12	M5	1	3N	ASG-10-5	S	0.001Kg	-
SG0-5-15-S-5	1-55-12-06-00-SG0	5	15	18	M5	1	4N	ASG-12-5	S	0.002Kg	-
SG0-6-18-S-5	1-55-12-08-00-SG0	6	18	18	M5	1	4N	ASG-12-5	S	0.002Kg	-
SG0-8-24-S-5 Vacuum Cup Oval	1-55-12-09-00-SG0	8	24	18	M5	1	8N	ASG-13-5	S	0.005Kg	-
SG0-8-24-S-18 Vacuum Cup Oval	1-55-12-10-00-SG0	8	24	18	G1/8	1	8N	ASG-14-18	S	0.005Kg	-
SG0-10-30-S-18	1-55-12-12-00-SG0	10	30	18	M5	1	8N	ASG-13-5	S	0.005Kg	-
SG0-10-30-N-18	1-55-12-14-00-SG0	10	30	18	G1/8	1	8N	ASG-14-18	S	0.005Kg	-
SG0-15-45-S-18	1-55-12-16-00-SG0	15	45	27	G1/8	2,5	10N	ASG-18-18	S	0.013Kg	1
SG0-15-45-S-14	1-55-12-18-00-SG0	15	45	28	G1/4	2,5	10N	ASG-16-14	S	0.017Kg	1
SG0-20-60-S-18	1-55-12-20-00-SG0	20	60	28	G1/8	2,5	20N	ASG-18-18	S	0.016Kg	1
SG0-20-60-S-14	1-55-12-22-00-SG0	20	60	28	G1/4	2,5	20N	ASG-16-14	S	0.019Kg	1
SG0-25-75-S-18	1-55-12-24-00-SG0	25	75	36	G1/8	3	30N	ASG-18-18	S	0.023Kg	2
SG0-25-75-S-14	1-55-12-26-00-SG0	25	75	36	G1/4	3	30N	ASG-16-14	S	0.028Kg	2
SG0-30-90-S-18	1-55-12-28-00-SG0	30	90	38	G1/8	3,5	35N	ASG-18-18	S	0.033Kg	2
SG0-30-90-S-14	1-55-12-30-00-SG0	30	90	38	G1/4	3,5	35N	ASG-16-14	S	0.035Kg	2

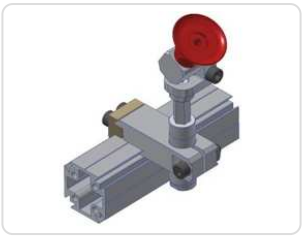
Legend: L = Suction cup stroke M = Holding force with double safety and 90% vacuum Holding force 10N = 1kg N = Adapter O = Material (see legend) X = 2-ear clamp 1 = ZOS-15-17-4 2 = ZOS-15-18-4

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1 Vacuum Cup with 1 Bellow (complete)







ADVANTAGES

- V1 - extremely light (aluminium adapter)
- V2 - All adapters with hexagon socket
- V3 - Quick assembly

INFO

- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application: Painting of plastic parts, leaves no imprint
- For optimum imprint behaviour, please clean the absorbent surfaces with a lint-free cloth and acetone !
- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: *
- Resistance to oil: **
- Compatibility with foodstuffs: -

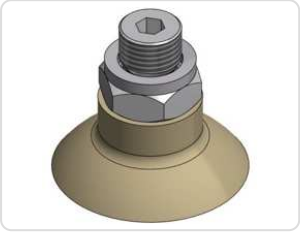
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	SW	WEIGHT
SG1-2-S-5	1-55-14-10-00-SG1	2	14	M5	1	ASG-40-5	0,11N	S	---	0.001Kg
SG1-3,5-S-5	1-55-14-13-00-SG1	3,5	14	M5	1	ASG-40-5	0,34N	S	---	0.001Kg
SG1-5-S-5	1-55-14-16-00-SG1	5	16	M5	1	ASG-42-5	0,67N	S	2	0.001Kg
SG1-5-HE-5	1-55-14-19-00-SG1	5	16	M5	1	ASG-42-5	0,67N	HE	2	0.001Kg
SG1-8-S-5	1-55-14-22-00-SG1	8	16,5	M5	1	ASG-42-5	1,7N	S	2	0.001Kg
SG1-8-HE-5	1-55-14-25-00-SG1	8	16,5	M5	1	ASG-42-5	1,7N	HE	2	0.001Kg
SG1-10-S-5	1-55-14-28-00-SG1	10	17	M5	1,5	ASG-42-5	2,8N	S	2	0.001Kg
SG1-10-HE-5	1-55-14-31-00-SG1	10	17	M5	2	ASG-42-5	2,8N	HE	2	0.001Kg
SG1-15-S-5	1-55-14-34-00-SG1	15	18	M5	2	ASG-44-5	6,5N	S	2	0.002Kg
SG1-15-HE-5	1-55-14-37-00-SG1	15	18	M5	2	ASG-44-5	6,5N	HE	2	0.002Kg
SG1-20-S-5	1-55-14-39-00-SG1	20	16	M5	2,5	ASG-45-5	12,2N	S	3	0.005Kg
SG1-20-S-18	1-55-14-40-00-SG1	20	18	G1/8	2,5	ASG-46-18	12,2N	S	3	0.005Kg
SG1-20-HE-5	1-55-14-42-00-SG1	20	16	M5	2,5	ASG-45-5	12,2N	HE	3	0.005Kg
SG1-20-HE-18	1-55-14-43-00-SG1	20	16	G1/8	2,5	ASG-46-18	12,2N	HE	3	0.005Kg
SG1-25-S-5	1-55-14-45-00-SG1	25	27	M5	3	ASG-47-5	16,7N	S	4	0.006Kg
SG1-25-S-18	1-55-14-46-00-SG1	25	27	G1/8	3	ASG-48-18	16,7N	S	4	0.006Kg
SG1-25-HE-5	1-55-14-48-00-SG1	25	27	M5	3	ASG-47-5	16,7N	HE	4	0.006Kg
SG1-25-HE-18	1-55-14-49-00-SG1	25	27	G1/8	3	ASG-48-18	16,7N	HE	4	0.006Kg
SG1-30-S-18	1-55-14-52-00-SG1	30	25	G1/8	2	ASG-48-18	22,7N	S	4	0.007Kg
SG1-30-HE-5	1-55-14-54-00-SG1	30	25	M5	2	ASG-47-5	22,7N	HE	4	0.007Kg
SG1-30-HE-18	1-55-14-55-00-SG1	30	25	G1/8	2	ASG-48-18	22,7N	HE	4	0.007Kg
SG1-40-S-18	1-55-14-58-00-SG1	40	27	G1/8	2	ASG-48-18	48N	S	4	0.011Kg
SG1-40-HE-18	1-55-14-61-00-SG1	40	27	G1/8	2	ASG-48-18	48N	HE	4	0.011Kg
SG1-50-S-18	1-55-14-64-00-SG1	50	28	G1/8	2	ASG-50-18	75N	S	5	0.016Kg
SG1-50-S14	1-55-14-65-00-SG1	50	28	G1/4	2	ASG-80-14	75N	S	5	0.017Kg
SG1-50-HE-18	1-55-14-67-00-SG1	50	28	G1/8	2	ASG-50-18	75N	HE	5	0.029Kg
SG1-50-HE-14	1-55-14-68-00-SG1	50	28	G1/4	2	ASG-80-14	75N	HE	5	0.03Kg

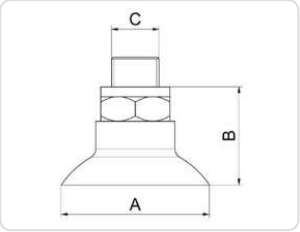
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	SW	WEIGHT
SG1-60-S-14	1-55-14-70-00-SG1	60	33	G1/4	4	ASG-52-14	123N	S	5	0.03Kg
SG1-60-HE-14	1-55-14-73-00-SG1	60	33	G1/4	4	ASG-52-14	123N	HE	5	0.03Kg
SG1-80-S4	1-55-14-76-00-SG1	80	33	G1/4	6	ASG-52-14	198N	S	5	0.059Kg
SG1-80-HE-14	1-55-14-79-00-SG1	80	33	G1/4	6	ASG-52-14	198N	HE	5	0.059Kg
SG1-95-S-14	1-55-14-82-00-SG1	95	34	G1/4	5	ASG-52-14	180N	S	5	0.096Kg
SG1-95-HE-14	1-55-14-84-00-SG1	95	34	G1/4	5	ASG-52-14	180N	HE	5	0.096Kg
SG1-2-N-5	1-55-15-10-00-SG1	2	14	M5	1	ASG-40-5	0,11N	NBR	---	0.001Kg
SG1-3,5-N-5	1-55-15-13-00-SG1	3,5	14	M5	1	ASG-40-5	0,34N	NBR	---	0.001Kg
SG1-5-N-5	1-55-15-19-00-SG1	5	16	M5	1	ASG-42-5	0,67N	NBR	2	0.001Kg
SG1-8-N-5	1-55-15-25-00-SG1	8	16,5	M5	1	ASG-42-5	1,7N	NBR	2	0.001Kg
SG1-10-N-5	1-55-15-31-00-SG1	10	17	M5	9,5	ASG-42-5	2,8N	NBR	2	0.001Kg
SG1-15-N-5	1-55-15-37-00-SG1	15	18	M5	2	ASG-44-5	6,5N	NBR	2	0.002Kg
SG1-20-N-5	1-55-15-42-00-SG1	20	16	M5	2,5	ASG-45-5	12,2N	NBR	3	0.005Kg
SG1-20-N-18	1-55-15-43-00-SG1	20	16	G1/8	2,5	ASG-46-18	12,2N	NBR	3	0.005Kg
SG1-25-N-5	1-55-15-48-00-SG1	25	27	M5	3	ASG-47-5	16,7N	NBR	4	0.006Kg
SG1-25-N-18	1-55-15-49-00-SG1	25	27	G1/8	3	ASG-48-18	16,7N	NBR	4	0.006Kg
SG1-30-N-18	1-55-15-55-00-SG1	30	25	G1/8	2	ASG-48-18	22,7N	NBR	4	0.007Kg
SG1-40-N-18	1-55-15-61-00-SG1	40	27	G1/8	2	ASG-48-18	48N	NBR	4	0.011Kg
SG1-50-N-18	1-55-15-67-00-SG1	50	28	G1/8	2	ASG-50-18	75N	NBR	5	0.03Kg
SG1-50-N-18 Vacuum Cup 1 Bellow	1-55-15-68-00-SG1	50	28	G1/4	2	ASG-50-18	75N	NBR	5	0.03Kg
SG1-60-N-14	1-55-15-73-00-SG1	60	33	G1/4	5	ASG-52-14	123N	NBR	5	0.03Kg
SG1-80-N-14	1-55-15-79-00-SG1	80	33	G1/4	7	ASG-52-14	198N	NBR	5	0.059Kg
SG1-95-N-14	1-55-15-84-00-SG1	95	34	G1/4	6	ASG-52-14	180N	NBR	5	0.096Kg

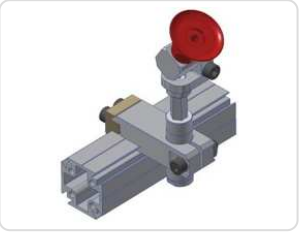
Legend: L = Suction pad stroke M = adapter N = Holding force with 2-fold safety and 90% vacuum holding force 10N = 1kg O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-P Vacuum Cup with 1 Bellow (complete) PU







ADVANTAGES

- V1 - Suction on curved surfaces
- V2 - extremely lightweight (aluminium adapter)
- V3 - All adapters with hexagon socket
- V4 - Quick assembly

REMARK

- To protect the material, all suction pads are only fitted with the adapter on request. Availability is guaranteed.
- Adapter with internal thread on request
- Scope of delivery:
- Adapter ASG and pneumatic sealing ring PDR

INFO

- Material: Polyurethane elastomer PU
- Colour: light brown
- Shore hardness: 65 to 95 Shore A
- Temperature resistance: -40°C to +80°C,
- briefly up to 130°C
- Flexibility: *
- Abrasion resistance: ***
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application: for harsh environmental conditions

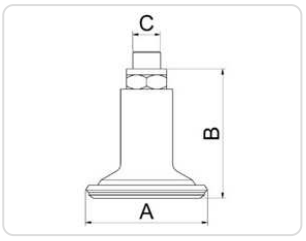
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	SW	WEIGHT
SG1-20-P-5	1-55-29-06-00-SG1	20	19,5	M5	3,5	ASG-45-5	13,5N	PU	2	0.005Kg
SG1-30-P-18	1-55-29-10-00-SG1	30	20	G1/8	3,5	ASG-48-18	39N	PU	4	0.008Kg
SG1-50-P-18	1-55-29-16-00-SG1	50	24	G1/8	4	ASG-51-18	110N	PU	5	0.012Kg

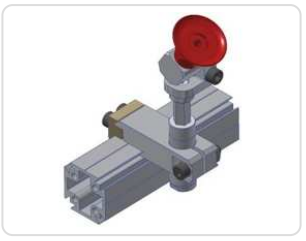
Legend: L = Suction pad stroke M = Adapter N = holding force with 1-fold safety (-0.7bar) Holding force 10N = 1kg O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-HT Vacuum Cup High Temperature with 1 Bellow (complete)







ADVANTAGES

- V1 - Temperature resistant up to 550°C for short periods
- V2 - extremely light (aluminium adapter)
- V3 - Adapter with hexagon socket

REMARK

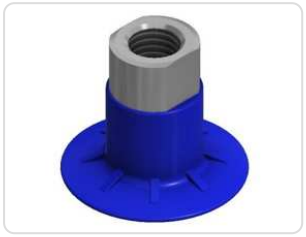
- All suction pads are only fitted with the adapter on request to protect the material.
- Availability is guaranteed.

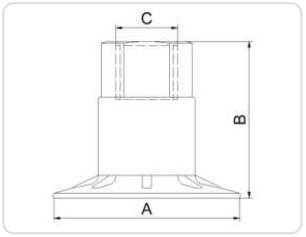
DESIGNATION	ITEM NO.	A	B	C	M	N	O	SW	WEIGHT
SG1-30-HT-18	1-55-30-10-00-SG1	30	38	G1/8	1	ASG-120-18	S	5	0.014Kg
SG1-30-HT-14	1-55-30-12-00-SG1	30	38	G1/4	1	ASG-122-14	S	5	0.017Kg
SG1-40-HT-18	1-55-30-14-00-SG1	40	38	G1/8	2	ASG-120-18	S	5	0.015Kg
SG1-40-HT-14	1-55-30-16-00-SG1	40	38	G1/4	2	ASG-122-14	S	5	0.018Kg
SG1-70-HT-14	1-55-30-18-00-SG1	70	41	G1/8	3	ASG-120-18	S	5	0.03Kg
SG1-70-HT-14	1-55-30-20-00-SG1	70	41	G1/4	3	ASG-122-14	S	5	0.033Kg

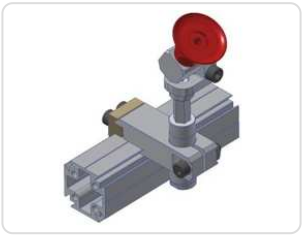
Legend: M = Suction pad stroke N = Adapter O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-UF Vacuum Cup with 1 Bellow PU compl ultra flat







ADVANTAGES

- V1 - specially designed for gripping non-heated composite parts
- V2 - the ultra-flat design, with an innovative vacuum supply system on the entire surface of the suction pad, ensures maximum gripping force without leaving marks or deformations
- V3 – the extra-thin suction cup lip adapts to the curvature of the workpiece without restriction during suction.
- V4 - The specific properties of this suction pad also allow it to be used in other areas, for example for gripping cheese or other delicate products.

INFO

- Material: Silicone S
- Colour: blue
- Shore hardness: 50 Shore A
- Temperature resistance: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Compatibility with food: ***
- Application: for non-heated composite parts, sensitive products, in the food industry

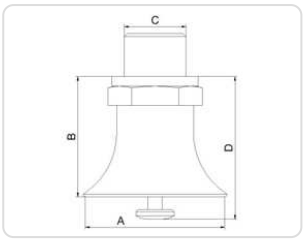
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	WEIGHT
SG1-40-UF-S-14-I	1-55-42-20-00-SG1	40	33,8	G1/4-I	1,5	15N	27N	S	0.016Kg
SG1-80-UF-S-14-I	1-55-42-26-00-SG1	80	35,8	G1/4-I	4	46,3N	92,6N	S	0.016Kg

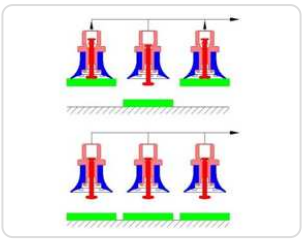
Legend: L = Suction pad stroke M = Holding force in vertical direction with 4-fold safety and 65% vacuum N = Holding force in horizontal direction with 2-fold safety at 65% vacuum Holding force 10N = 1kg O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-TV Vacuum Cup 1 Bellow (complete) with mechanical feelers







ADVANTAGES

- V1 - high power savings of the vacuum generator, as leakages are prevented
- V2 - low-cost variant
- V3 - high tensile force
- V4 - high stability against lateral forces
- V5 - Handling in vertical direction possible

REMARK

- Other suction pad material on request
- Adapter with internal thread on request
- For optimum impression behaviour, please clean the suction surfaces with a lint-free cloth and acetone !

INFO

- Suction cup material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Pliability: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with food: -
- Area of application: Painting of plastic parts, leaves no imprint
- Material touch valve
- Body : Nickel plated brass
- Spring : Stainless steel
- Touch valve : Brass Delrin

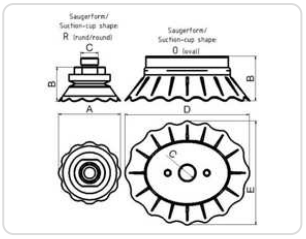
DESIGNATION	ITEM NO.	A	B	C	D	L	M	N	O	SW	WEIGHT
SG1-TV-30-HE-14	1-55-44-10-00-SG1	30	25	G1/4	28,9	2,5	7,9N	15,9N	HE	4	0.007Kg
SG1-TV-50-HE-14	1-55-44-40-00-SG1	50	28	G1/4	28,9	4,5	19,1N	38,3N	HE	4	0.007Kg

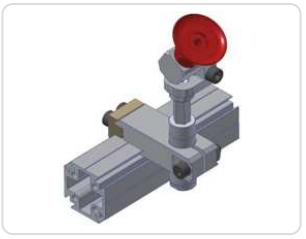
Legend: L = Suction pad stroke M = Holding force in vertical direction with 4-fold safety and 65% vacuum N = Holding force in horizontal direction with 2-fold safety at 65% vacuum Holding force 10N = 1kg O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-FPV-S Vacuum cup 1 Bellow for flowpack packaging







ADVANTAGES

- V1 - The calyx-like shape of the suction pad with thin, wavy gripper lips adapts perfectly to the contour of the packaging.
- V2 - Supporting nubs on the inside optimise the vacuum, strengthen the hold of the picked-up product and prevent the packaging from being crushed.
- V3 - The suction pads are designed for Hhandling of food products.
- V4 - Excellent gripping quality enables high cycle frequencies
- V5 - No machine downtime due to faulty gripping
- V6 - Significant energy savings! Due to the optimum sealing of the suction pad, no oversized vacuum generators need to be used.

REMARK

- -Suction pad sizes SG1-R-20, SG1-R-35 and SG1-R-60 have a round contour,
- SG1-O-120-100 has an oval contour
- -Suction pad sizes SG1-R-20, SG1-R-35 and SG1-R-60 are equipped with external adapter threads, SG1-O-120-100 have a mounting with internal thread.
- Scope of delivery:
- including adapter or attachment with internal thread for SG1-O-120-100

INFO

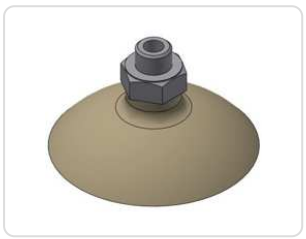
- Material: Silicone S
- Colour: blue
- Shore hardness: 35 Shore A
- Temperature resistance: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Compatibility with food: ***

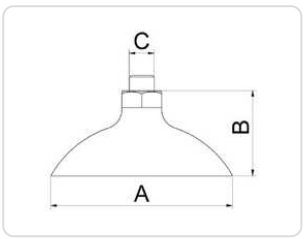
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	N	SW	WEIGHT	X
SG1-R-35-FPV-35-S-14	1-55-46-06-00-SG1	20	23	G1/8	-	-	R	35Sh	4,8	1,5N	4	0.022Kg	S
SG1-R-35-FPV-35-S-14	1-55-46-10-00-SG1	35	36	G1/4	-	-	R	35Sh	10	5N	4	0.022Kg	S
SG1-R-60-FPV-35-S-38	1-55-46-20-00-SG1	60	33	G3/8	-	-	R	35Sh	10	15N	4	0.007Kg	S
SG1-O-120-100-FPV-35-S-38-I	1-55-46-30-00-SG1	-	42,5	G3/8	120	100	O	35Sh	15	50N	4	0.092Kg	S

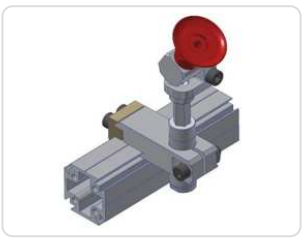
Legend: F = Suction pad shape: R - round contour O - oval contour K = Lip hardness °Shore A L= Suction pad stroke N = Horizontal holding force at vacuum -0.6 bar Holding force 10N = 1kg X = Lip material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-NK Vacuum Cup 1 Bellow natural rubber (complete)







ADVANTAGES

- V1 - Vulcanised adapter
- V2 - Super soft suction pad
- V3 - with integrated O-ring as sealing element

REMARK

- Scope of delivery:
- Adapter ASG and pneumatic sealing ring PDR

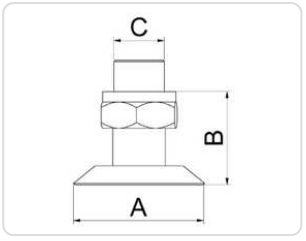
DESIGNATION	ITEM NO.	A	B	C	N	O	SW	WEIGHT
SG1-75-NK-14	1-55-38-10-00-SG1	75	35	G1/4	100N	NK	21	0.044Kg
SG1-96-NK-14	1-55-38-12-00-SG1	96	46	G1/4	190N	NK	21	0.073Kg

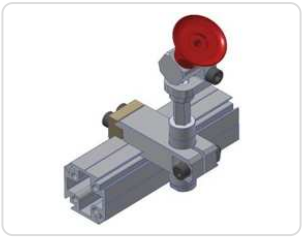
Legend: N = Holding force with 2-fold safety and 90% vacuum Holding force 10N = 1kg O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-P-S Vacuum Cup 1 Bellow for Paper (complete)







ADVANTAGES

- V1 - very low abrasion when handling paper and cardboard
- V2 - very thin suction lips for handling highly flexible materials

INFO

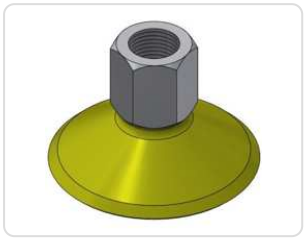
- Material:
- Transparent silicone (S) Shore hardness 50

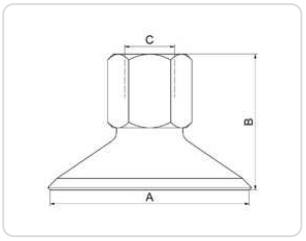
DESIGNATION	ITEM NO.	A	B	C	M	N	O	WEIGHT
SG1-25-P-S-5	1-55-38-20-00-SG1	25	17,8	M5	9	ASG-54-5	S	0.002Kg
SG1-25-P-S-18	1-55-38-21-00-SG1	25	17,8	G1/8	9	ASG-55-18	S	0.004Kg

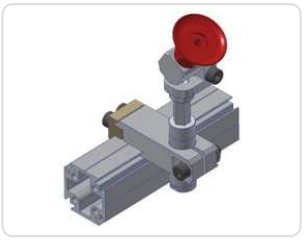
Legend: M = Holding force with 2-fold safety and 90% vacuum holding force 10N = 1kg N = Adapter O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-TPE-80 Vacuum Cup 1 Bellow complete TPE 80 °Shore







ADVANTAGES

- V1 – these suction pads combine the holding power of
- flat suction pads with the advantages of bellows suction pads, as
- they have a longer stroke
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 – due to the brake rib geometry,
- high lateral forces are possible
- V5 – no dent formation on thin sheets

REMARK

- All versions with internal thread
- Scope of delivery:
- including adapter
- Suction pads approved by motorists

INFO

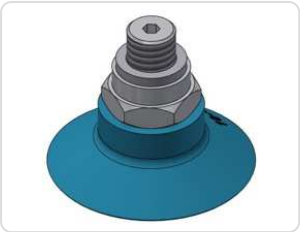
- Material: Thermoplastic elastomers TPE
- Shore hardness: 80 ° Shore A
- Temperature resistance: -20°C to +60°C, short-term
- up to 100°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: **
- Compatibility with food: -

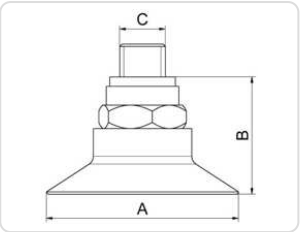
DESIGNATION	ITEM NO.	A	B	C	D	L	N	O	WEIGHT
SG1-30-TPE-80-G3/8-I	1-57-98-04-00-SG1	30	35,0	G3/8	80	4,3	55N	TPE	0.02Kg
SG1-40-TPE-80-G3/8-I	1-57-98-06-00-SG1	40	37,6	G3/8	80	4,3	74N	TPE	0.022Kg
SG1-60-TPE-80-G3/8-I	1-57-98-10-00-SG1	60	45,3	G3/8	80	9,6	172N	TPE	0.032Kg
SG1-80-TPE-80-G3/8-I	1-57-98-12-00-SG1	80	45,3	G3/8	80	9,6	172N	TPE	0.044Kg
SG1-100-TPE-80-G3/8-I	1-57-98-14-00-SG1	100	57,2	G3/8	80	15,6	429N	TPE	0.07Kg

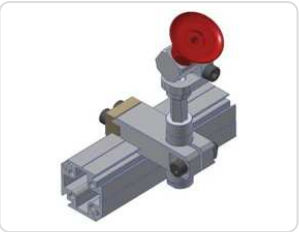
Legend: D = Suction pad hardness °Shore A L = Suction pad stroke N = Holding force vertical at vacuum -0.6 bar Holding force 10N = 1kg O = Suction pad material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-PU-EH-LC Vacuum Cup with 1 Bellow polyurethane compl one hardness







ADVANTAGES

- V1 - these PU suction cups are made with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - The suction pads are available in two different Shore hardnesses (40 and 60°Shore)
- V3 - Key features are good elasticity and flexibility, high tensile strength with high wear resistance
- V4 - Virtually silicone and impression-free

REMARK

- Scope of delivery:
- including adapter and seal

INFO

- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- blue suction cup: 60 °Shore
- yellow suction cup: 40 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with food: -

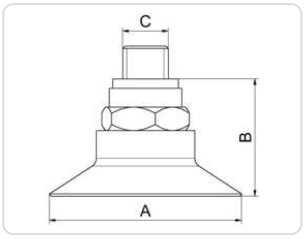
DESIGNATION	ITEM NO.	A	B	C	K	L	M	N	O	WEIGHT
SG1-20-PU-EH-40-18-LC	1-57-72-09-00-SG1	22	15	G1/8	40	2	ASG-202-18	7,5N	PU	0.005Kg
SG1-20-PU-EH-60-18-LC	1-57-72-10-00-SG1	22	15	G1/8	60	2	ASG-202-18	7,5N	PU	0.005Kg
SG1-30-PU-EH-40-18-LC	1-57-72-13-00-SG1	31	20,5	G1/8	40	2	ASG-202-18	16,2N	PU	0.006Kg
SG1-30-PU-EH-60-18-LC	1-57-72-14-00-SG1	31	20,5	G1/8	60	2	ASG-202-18	16,2N	PU	0.006Kg
SG1-40-PU-EH-40-18-LC	1-57-72-15-00-SG1	41	24,5	G1/8	40	2,5	ASG-203-18	28N	PU	0.014Kg
SG1-40-PU-EH-60-18-LC	1-57-72-16-00-SG1	41	24,5	G1/8	60	2,5	ASG-203-18	28N	PU	0.014Kg
SG1-40-PU-EH-40-14-LC	1-57-72-17-00-SG1	41	24,5	G1/4	40	2,5	ASG-204-14	28N	PU	0.014Kg
SG1-40-PU-EH-60-14-LC	1-57-72-18-00-SG1	41	24,5	G1/4	60	2,5	ASG-204-14	28N	PU	0.014Kg
SG1-60-PU-EH-40-38-LC	1-57-72-31-00-SG1	62	14,5	G3/8	60	3	-	66N	PU	0.038Kg
SG1-60-PU-EH-60-38-LC	1-57-72-32-00-SG1	62	14,5	G3/8	60	3	-	66N	PU	0.038Kg
SG1-80-PU-EH-60-38-LC	1-57-72-50-00-SG1	81,5	17,5	G3/8	60	3	-	120N	PU	0.07Kg

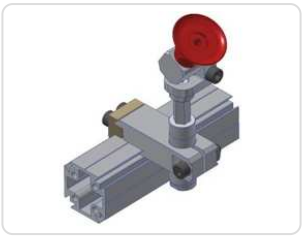
Legend: K = Degree of hardness lip and bellows °Shore A L = Suction pad stroke M = adapter N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

SG1 / VACUUM CUP 1 EDGE (COMPLETE)

SG1-PU-EH-SR-LC Vacuum Cup with 1 Bellow PU compl one hardness internal cleats







ADVANTAGES

- V1 - these PU suction cups are manufactured with single hardening from a
- specially developed polyurethane. This material
- combines the elasticity of rubber with the holding power of plastic
- V2 - The suction pads are available in two different Shore hardnesses
- (40 and 60°Shore)
- V3 - Key features are good elasticity and
- flexibility, high tensile strength with high wear resistance
- V4 - Virtually silicone and impression-free
- V5 - The inner support ribs ensure a good grip and stability

REMARK

- Scope of delivery:
- including adapter and seal

INFO

- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- blue suction pads: 60 °Shore
- yellow suction pads: 40 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with food: -

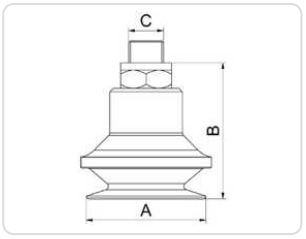
DESIGNATION	ITEM NO.	A	B	C	K	L	M	N	O	WEIGHT
SG1-20-PU-EH-40-SR-18-LC	1-57-76-09-00-SG1	21,5	16,5	G1/8	40	3	ASG-202-18	8N	PU	0.005Kg
SG1-20-PU-EH-60-SR-18-LC	1-57-76-10-00-SG1	21,5	16,5	G1/8	60	3	ASG-202-18	8N	PU	0.005Kg
SG1-30-PU-EH-40-SR-18-LC	1-57-76-13-00-SG1	31,5	20	G1/8	40	4,5	ASG-202-18	20N	PU	0.006Kg
SG1-30-PU-EH-40-SR-18-LC	1-57-76-14-00-SG1	31,5	20	G1/8	60	4,5	ASG-202-18	20N	PU	0.006Kg
SG1-40-PU-EH-40-SR-18-LC	1-57-76-15-00-SG1	40	26,5	G1/8	40	5	ASG-203-18	32N	PU	0.015Kg
SG1-40-PU-EH-60-SR-18-LC	1-57-76-16-00-SG1	40	26,5	G1/8	60	5	ASG-203-18	32N	PU	0.015Kg
SG1-40-PU-EH-40-SR-14-LC	1-57-76-17-00-SG1	40	24,5	G1/4	40	5	ASG-204-14	32N	PU	0.015Kg
SG1-40-PU-EH-60-SR-14-LC	1-57-76-18-00-SG1	40	24,5	G1/4	60	5	ASG-204-14	32N	PU	0.015Kg
SG1-60-PU-EH-40-SR-38-LC	1-57-76-31-00-SG1	61,8	23,5	G3/8	40	5	-	65N	PU	0.028Kg
SG1-60-PU-EH-60-SR-38-LC	1-57-76-32-00-SG1	61,8	23,5	G3/8	60	5	-	65N	PU	0.028Kg

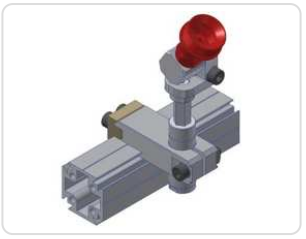
Legend: K = degree of hardness lip and bellows °Shore A L = Suction pad stroke M = Adapter N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

SG2 / VACUUM CUP 2 EDGE (COMPLETE)

SG2 Vacuum Cup with 2 Bellows (complete)







ADVANTAGES

- V1 - Suction on curved surfaces
- V2 - extremely light (aluminium adapter)
- V3 - All adapters with hexagon socket
- V4 - Quick assembly

REMARK

- To protect the material, all suction pads are only fitted with the adapter on request. Availability is guaranteed.
- Adapter with internal thread on request
- Scope of delivery:
- Adapter ASG and pneumatic sealing ring PDR

INFO

- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with food: -
- Area of application: Painting of plastic parts, leaves no imprint
- For optimum imprint behaviour, please clean the absorbent surfaces with a lint-free cloth and acetone !
- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: *
- Resistance to oil: **
- Compatibility with food: -

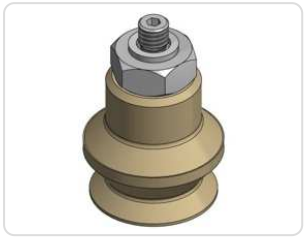
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	WEIGHT	SW
SG2-10-S-5	1-55-18-05-00-SG2	10	23	M5	4,5	ASG-42-5	2,4N	S	0.002Kg	
SG2-10-HE-5	1-55-18-07-00-SG2	10	23	M5	7,5	ASG-42-5	2,4N	HE	0.002Kg	---
SG2-10-HE-18	1-55-18-08-00-SG2	10	23	G1/8	7,5	ASG-70-18	2,4N	HE	0.005Kg	---
SG2-15-S-5	1-55-18-10-00-SG2	15	26	M5	7	ASG-42-5	3,5N	S	0.002Kg	---
SG2-15-S-18	1-55-18-11-00-SG2	15	26	G1/8	7	ASG-70-18	3,5N	S	0.005Kg	---
SG2-15-HE-5	1-55-18-12-00-SG2	15	26	M5	7	ASG-42-5	3,5N	HE	0.002Kg	---
SG2-15-HE-18	1-55-18-13-00-SG2	15	26	G1/8	7	ASG-70-18	3,5N	HE	0.005Kg	---
SG2-20-S-5	1-55-18-33-00-SG2	20	28	M5	8,5	ASG-49-5	7,7N	S	0.006Kg	2
SG2-20-S-18	1-55-18-34-00-SG2	20	28	G1/8	8,5	ASG-48-18	7,7N	S	0.007Kg	3
SG2-20-HE-5	1-55-18-35-00-SG2	20	28	M5	8,5	ASG-49-5	7,7N	HE	0.006Kg	2
SG2-20-HE-18	1-55-18-36-00-SG2	20	28	G1/8	8,5	ASG-48-18	7,7N	HE	0.007Kg	3
SG2-30-S-18	1-55-18-51-00-SG2	30	37,5	G1/8	11,5	ASG-48-18	19,2N	S	0.012Kg	4
SG2-30-S-14	1-55-18-52-00-SG2	30	37,5	G1/4	11,5	ASG-82-14	19,2N	S	0.012Kg	4
SG2-33-HE-18	1-55-18-55-00-SG2	33	34,5	G1/8	11,5	ASG-58-18	19,2N	HE	0.012Kg	4
SG2-33-HE-14	1-55-18-57-00-SG2	33	34,5	G1/4	11,5	ASG-62-14	19,2N	HE	0.015Kg	4
SG2-40-S-18	1-55-18-61-00-SG2	40	45	G1/8	10	ASG-48-18	28N	S	0.02Kg	4
SG2-40-S-14	1-55-18-62-00-SG2	40	37,5	G1/4	10	ASG-82-14	28N	S	0.012Kg	4
SG2-43-HE-18	1-55-18-63-00-SG2	43	35	G1/8	10	ASG-58-18	28N	HE	0.018Kg	5
SG2-43-HE-14	1-55-18-65-00-SG2	43	35	G1/4	10	ASG-62-14	28N	HE	0.021Kg	5
SG2-50-S-18	1-55-18-71-00-SG2	50	50	G1/8	18	ASG-50-18	59N	S	0.028Kg	5
SG2-50-S-14	1-55-18-72-00-SG2	50	50	G1/4	18	ASG-80-14	59N	S	0.028Kg	5

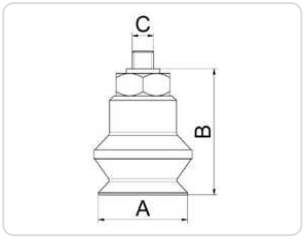
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	WEIGHT	SW
SG2-53-HE-18	1-55-18-74-00-SG2	53	41	G1/8	18	ASG-58-18	59N	HE	0.018Kg	5
SG2-53-HE-14	1-55-18-76-00-SG2	53	41	G1/4	18	ASG-62-14	59N	HE	0.021Kg	5
SG2-75-S-14	1-55-18-90-00-SG2	75	57	G1/4	17	ASG-52-14	152N	S	0.089Kg	5
SG2-75-HE-14	1-55-18-93-00-SG2	75	57	G1/4	17	ASG-52-14	152N	HE	0.089Kg	5
SG2-10-N-5	1-55-19-07-00-SG2	10	23	M5	4,5	ASG-42-5	2,4N	NBR	0.002Kg	---
SG2-15-N-5	1-55-19-12-00-SG2	15	26	M5	7	ASG-42-5	3,5N	NBR	0.002Kg	---
SG2-15-N-18	1-55-19-13-00-SG2	15	26	G1/8	7	ASG-70-18	3,5N	NBR	0.005Kg	---
SG2-20-N-5	1-55-19-35-00-SG2	20	28	M5	8,5	ASG-49-5	7,7N	NBR	0.006Kg	
SG2-20-N-18	1-55-19-36-00-SG2	20	28	G1/8	8,5	ASG-48-18	7,7N	NBR	0.007Kg	
SG2-30-N-18	1-55-19-55-00-SG2	30	37,5	G1/8	11,5	ASG-48-18	19,2N	NBR	0.012Kg	4
SG2-40-N-18	1-55-19-63-00-SG2	40	45	G1/8	10	ASG-48-18	28N	NBR	0.018Kg	4
SG2-40-N-14	1-55-19-64-00-SG2	40	37,5	G1/4	10	ASG-82-14	28N	N	0.012Kg	4
SG2-50-N-18	1-55-19-74-00-SG2	50	50	G1/8	18	ASG-50-18	59N	NBR	0.018Kg	5
SG2-50-N-14	1-55-19-75-00-SG2	50	50	G1/4	18	ASG-80-14	59N	NBR	0.018Kg	5
SG2-75-N-14	1-55-19-93-00-SG2	75	57	G1/4	17	ASG-52-14	152N	NBR	0.089Kg	5

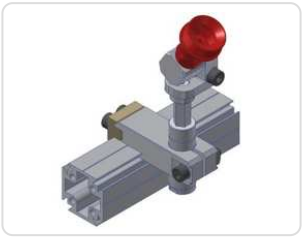
Legend: L = Suction pad stroke M = Adapter N = holding force with 2-fold safety and 90% vacuum holding force 10N = 1kg O = Material (see legend)

SG2 / VACUUM CUP 2 EDGE (COMPLETE)

SG2-P Vacuum Cup with 2 Bellows (complete) PU







ADVANTAGES

- V1 - Suction on curved surfaces
- V2 - extremely light (aluminium adapter)
- V3 - All adapters with hexagon socket
- V4 - Quick assembly

REMARK

- To protect the material, all suction pads are only fitted with the adapter on request.
- Availability is guaranteed.
- Adapter with internal thread on request
- Scope of delivery:
- Adapter ASG and pneumatic sealing ring PDR

INFO

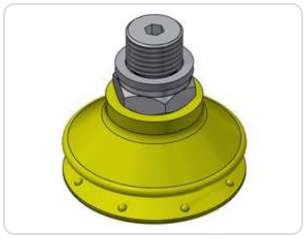
- Material: polyurethane elastomer PU
- Colour: light brown
- Shore hardness: 65 to 95 Shore A
- Temperature resistance: -40°C to +80°C,
- briefly up to 130°C
- Flexibility: *
- Abrasion resistance: ***
- Resistance to oil: **
- Compatibility with food: -
- Area of application: for harsh environmental conditions

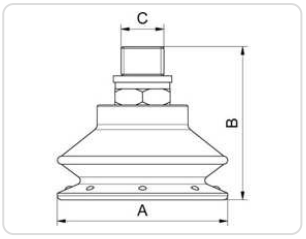
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	SW	WEIGHT
SG2-20-P-5	1-55-29-22-00-SG2	20	28	M5	9	ASG-49-5	24N	PU	2	0.005Kg
SG2-30-P-18	1-55-29-26-00-SG2	30	36	G1/8	11	ASG-48-18	41N	PU	4	0.011Kg
SG2-50-P-18	1-55-29-34-00-SG2	50	43	G1/8	13,5	ASG-59-18	105N	PU	5	0.022Kg

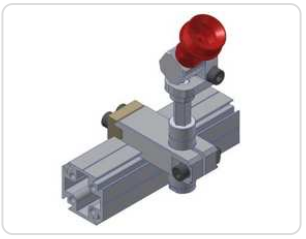
Legend: L = Suction pad stroke M = Adapter N = holding force with 1-fold safety (-0.7bar) Holding force 10N = 1kg O = Material (see legend)

SG2 / VACUUM CUP 2 EDGE (COMPLETE)

SG2-PU-EH-LC Vacuum Cup with 2 Bellow polyurethane compl one hardness







ADVANTAGES

- V1 - these PU suction cups are made with single hardening from a
- specially developed polyurethane. This material
- combines the elasticity of rubber with the holding power of plastic
- V2 - Key features are good elasticity and
- flexibility, high tensile strength with high wear resistance
- V3 - Virtually silicone and impression-free

REMARK

- Scope of delivery:
- including adapter and seal

INFO

- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- yellow suction cup: 40 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with food: -

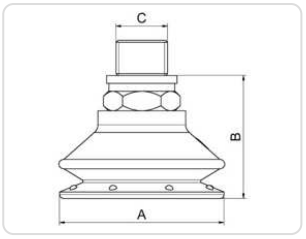
DESIGNATION	ITEM NO.	A	B	C	K	L	M	N	O	WEIGHT
SG2-10-PU-EH-40-5-LC	1-57-78-46-00-SG2	11	22,5	M5	40	4	ASG-150-5	1,6N	PU	0.003Kg
SG2-10-PU-EH-40-18-LC	1-57-78-47-00-SG2	11	22,5	G1/8	40	4	ASG-152-18	1,6N	PU	0.005Kg
SG2-15-PU-EH-40-5-LC	1-57-78-50-00-SG2	16	25,5	M5	40	5	ASG-150-5	3,8N	PU	0.004Kg
SG2-15-PU-EH-40-18-LC	1-57-78-51-00-SG2	16	25,5	G1/8	40	5	ASG-152-18	3,8N	PU	0.006Kg
SG2-20-PU-EH-40-18-LC	1-57-78-56-00-SG2	21	24,5	G1/8	40	6	ASG-202-18-LC	5,9N	PU	0.006Kg
SG2-30-PU-EH-40-18-LC	1-57-78-61-00-SG2	31,5	27,5	G1/8	40	6	ASG-203-18-LC	15,7N	PU	0.012Kg
SG2-30-PU-EH-40-14-LC	1-57-78-62-00-SG2	31,5	25,5	G1/4	40	6	ASG-204-14-LC	15,7N	PU	0.012Kg
SG2-40-PU-EH-40-18-LC	1-57-78-67-00-SG2	42	33	G1/8	40	8	ASG-203-18-LC	26,8N	PU	0.019Kg
SG2-40-PU-EH-40-14-LC	1-57-78-68-00-SG2	42	31	G1/4	40	8	ASG-204-14-LC	26,8N	PU	0.019Kg
SG2-50-PU-EH-40-18-LC	1-57-78-72-00-SG2	52,5	44	G1/8	40	12	ASG-207-18-LC	40N	PU	0.032Kg
SG2-50-PU-EH-40-14-LC	1-57-78-73-00-SG2	52,5	44	G1/4	40	12	ASG-205-14-LC	40N	PU	0.03Kg
SG2-50-PU-EH-40-14-LC	1-57-78-74-00-SG2	52,5	44	G3/8	40	12	ASG-206-38-LC	40N	PU	0.038Kg
SG2-70-PU-EH-40-38-LC	1-57-78-80-00-SG2	73	47	G3/8	40	13	-	76N	PU	0.062Kg

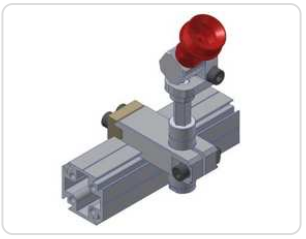
Legend: K = degree of hardness lip and bellows °Shore A M = adapter N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

SG2 / VACUUM CUP 2 EDGE (COMPLETE)

SG2-PU-ZH-LC Vacuum Cup with 2 Bellows polyurethane compl two hardness







ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness. This makes them strong and stable and
- equally soft and flexible: body 60 Shore /
- suction lip 30 Shore
- V2 - these suction cups are made from a specially
- developed polyurethane. This material combines the elasticity of rubber with the holding power
- of plastic
- V3 - Virtually silicone and impression-free
- V4 - excellent sealing properties

REMARK

- Suction pads with a diameter of 10 mm are manufactured with a single hardening (60 ° Shore A)
- Scope of delivery:
- incl. ASG adapter and pneumatic seal

INFO

- Material: Polyurethane (PU)
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with food: -

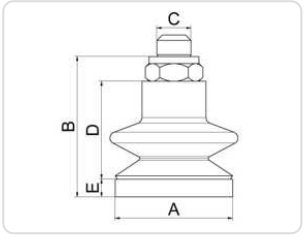
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG2-10-PU-ZH-60-5-LC	1-57-70-46-00-SG2	11	22,5	M5	-	60	6	ASG-150-5	1,3N	PU	0.003Kg
SG2-10-PU-ZH-60-18-LC	1-57-70-47-00-SG2	11	22,5	G1/8	-	60	6	ASG-152-18	1,3N	PU	0.005Kg
SG2-15-PU-ZH-30-60-5-LC	1-57-70-50-00-SG2	16	25	M5	30	60	6	ASG-150-5	3,5N	PU	0.004Kg
SG2-15-PU-ZH-30-60-18-LC	1-57-70-51-00-SG2	16	25	G1/8	30	60	6	ASG-152-18	3,5N	PU	0.006Kg
SG2-20-PU-ZH-30-60-18-LC	1-57-70-56-00-SG2	21	24,5	G1/8	30	60	9	ASG-202-18	5,7N	PU	0.006Kg
SG2-30-PU-ZH-30-60-18-LC	1-57-70-61-00-SG2	31,5	27,5	G1/8	30	60	9	ASG-203-18	15N	PU	0.012Kg
SG2-30-PU-ZH-30-60-14-LC	1-57-70-62-00-SG2	31,5	25,5	G1/4	30	60	9	ASG-204-14	15N	PU	0.012Kg
SG2-40-PU-ZH-30-60-18-LC	1-57-70-67-00-SG2	42	33	G1/8	30	60	11	ASG-203-18	25N	PU	0.019Kg
SG2-40-PU-ZH-30-60-14-LC	1-57-70-68-00-SG2	42	31	G1/4	30	60	11	ASG-204-14	25N	PU	0.019Kg
SG2-50-PU-ZH-30-60-18-LC	1-57-70-72-00-SG2	52,5	40	G1/8	30	60	12	ASG-207-18	40N	PU	0.032Kg
SG2-50-PU-ZH-30-60-14-LC	1-57-70-73-00-SG2	52,5	40	G1/4	30	60	12	ASG-205-14	40N	PU	0.03Kg
SG2-50-PU-ZH-30-60-38-LC	1-57-70-74-00-SG2	52,5	40	G3/8	30	60	12	ASG-206-38	40N	PU	0.038Kg
SG2-70-PU-ZH-30-60-38-LC	1-57-70-80-00-SG2	73	45	G3/8	30	60	17	---	78N	PU	0.062Kg

Legend: J = Lip hardness °Shore A K = Bellows hardness °Shore A L = Suction pad stroke M = ASG adapter N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

SG2 / VACUUM CUP 2 EDGE (COMPLETE)

SG2-N-SCH Suction pad 2 edges with foam lip (complete)



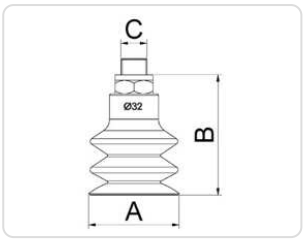


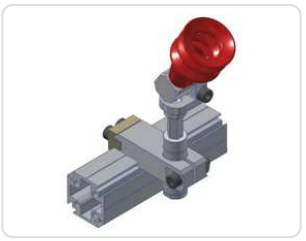
DESIGNATION	ITEM NO.	A	C	D	E	L	M	N	B
SG2-20-N-18-SCH	1-55-50-08-00-SG2	20	G1/8	16	3	6,5	14N	7N	
SG2-25-N-18-SCH	1-55-50-14-00-SG2	26	G1/8	24,5	3	10	23N	11,5N	
SG2-33-N-18-SCH	1-55-50-20-00-SG2	33	G1/8	27,5	5	11	39N	19,5N	39,5

SG3 / VACUUM CUP 3 EDGE (COMPLETE)

SG3 Vacuum Cup with 3 Bellows (complete)







ADVANTAGES

- V1 - Suction on curved surfaces
- V2 - extremely light (aluminium adapter)
- V3 - All adapters with hexagon socket
- V4 - Quick assembly

REMARK

- To protect the material, all suction pads are only fitted with the adapter on request.
- Availability is guaranteed.
- Adapter with internal thread on request
- Scope of delivery:
- Adapter ASG and pneumatic sealing ring PDR

INFO

- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: *
- Resistance to oil: **
- Compatibility with food: -
- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with food: -
- Area of application: Painting of plastic parts,
- leaves no imprint
- For optimum impression behaviour, please clean the
- absorbent surfaces with a lint-free cloth
- and acetone

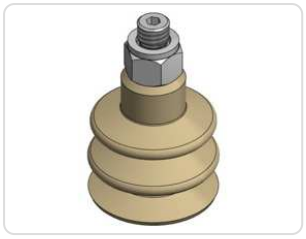
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	WEIGHT	SW
SG3-5-S-5	1-55-22-11-00-SG3	5	19	M5	3	ASG-42-5	0,66N	S	0.001Kg	
SG3-5-HE-5	1-55-22-13-00-SG3	5	19	M5	3	ASG-42-5	0,66N	HE	0.001Kg	2
SG3-7-S-5	1-55-22-16-00-SG3	7	19	M5	3	ASG-42-5	1,3N	S	0.001Kg	2
SG3-7-HE-5	1-55-22-18-00-SG3	7	19	M5	3	ASG-42-5	1,3N	HE	0.001Kg	2
SG3-9-S-5	1-55-22-22-00-SG3	9	21	M5	3	ASG-54-5	1,5N	S	0.002Kg	2
SG3-9-S-18	1-55-22-23-00-SG3	9	21	G1/8	3	ASG-55-18	1,5N	S	0.004Kg	3
SG3-9-HE-5	1-55-22-27-00-SG3	9	21	M5	3	ASG-54-5	1,5N	HE	0.002Kg	2
SG3-9-HE-18	1-55-22-28-00-SG3	9	21	G1/8	3	ASG-55-18	1,5N	HE	0.004Kg	3
SG3-14-S-5	1-55-22-32-00-SG3	14	32	M5	8,5	ASG-54-5	4,1N	S	0.003Kg	2
SG3-14-S-18	1-55-22-33-00-SG3	14	32	G1/8	8,5	ASG-55-18	4,1N	S	0.005Kg	3
SG3-14-HE-5	1-55-22-36-00-SG3	14	32	M5	9,5	ASG-54-5	4,1N	HE	0.003Kg	2
SG3-14-HE-18	1-55-22-37-00-SG3	14	32	G1/8	8,5	ASG-55-18	4,1N	HE	0.005Kg	3
SG3-18-S-5	1-55-22-42-00-SG3	18	32	M5	10	ASG-54-5	6,1N	S	0.003Kg	2

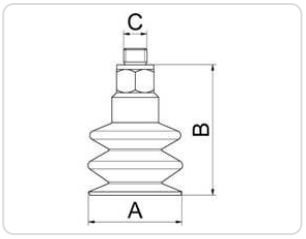
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	WEIGHT	SW
SG3-18-S-18	1-55-22-43-00-SG3	18	32	G1/8	8,5	ASG-55-18	6,1N	S	0.006Kg	3
SG3-18-HE-5	1-55-22-46-00-SG3	18	32	M5	9,5	ASG-54-5	6,1N	HE	0.003Kg	2
SG3-18-HE-18	1-55-22-47-00-SG3	18	32	G1/8	8,5	ASG-55-18	6,1N	HE	0.006Kg	3
SG3-20-S-5	1-55-22-52-00-SG3	20	32	M5	9,5	ASG-54-5	6,4N	S	0.004Kg	2
SG3-20-S-18	1-55-22-53-00-SG3	20	32	G1/8	8,5	ASG-55-18	6,4N	S	0.006Kg	3
SG3-20-HE-5	1-55-22-58-00-SG3	20	32	M5	9,5	ASG-54-5	6,4N	HE	0.004Kg	2
SG3-20-HE-18	1-55-22-59-00-SG3	20	32	G1/8	8,5	ASG-55-18	6,4N	HE	0.006Kg	3
SG3-25-HE-5	1-55-22-60-00-SG3	25	44	M5	16	ASG-54-5	9N	HE	0.005Kg	2
SG3-25-S-18	1-55-22-61-00-SG3	25	44	G1/8	15	ASG-55-18	9N	S	0.008Kg	3
SG3-25-S-5	1-55-22-62-00-SG3	25	44	M5	6	ASG-54-5	9N	S	0.005Kg	2
SG3-25-HE-18	1-55-22-71-00-SG3	25	44	G1/8	15	ASG-55-18	9N	HE	0.008Kg	3
SG3-32-S-18	1-55-22-80-00-SG3	32	46	G1/8	14	ASG-58-18	16,8N	S	0.014Kg	5
SG3-32-HE-18	1-55-22-82-00-SG3	32	46	G1/8	14	ASG-58-18	16,8N	HE	0.014Kg	5
SG3-32-HE-14	1-55-22-83-00-SG3	32	46	G1/4	14	ASG-62-14	16,8N	HE	0.017Kg	5
SG3-42-S-18	1-55-22-84-00-SG3	42	59	G1/8	20	ASG-58-18	29N	S	0.023Kg	5
SG3-42-HE-18	1-55-22-86-00-SG3	42	59	G1/8	20	ASG-58-18	29N	HE	0.023Kg	5
SG3-42-HE-14	1-55-22-87-00-SG3	42	59	G1/4	20	ASG-62-14	29N	HE	0.026Kg	5
SG3-62-S-18	1-55-22-88-00-SG3	62	65	G1/8	26	ASG-58-18	57N	S	0.041Kg	5
SG3-62-S-14	1-55-22-89-00-SG3	62	65	G1/4	26	ASG-62-14	57N	S	0.044Kg	5
SG3-62-HE-18	1-55-22-90-00-SG3	62	65	G1/8	26	ASG-58-18	57N	HE	0.041Kg	5
SG3-62-HE-14	1-55-22-91-00-SG3	62	65	G1/4	26	ASG-62-14	57N	HE	0.044Kg	5
SG3-88-S-14	1-55-22-92-00-SG3	90	101	G1/4	35	ASG-60-14	184N	S	0.177Kg	6
SG3-5-N5	1-55-23-13-00-SG3	5	19	M5	3	ASG-42-5	0,66N	NBR	0.001Kg	2
SG3-7-N-5	1-55-23-18-00-SG3	7	19	M5	3	ASG-42-5	1,3N	NBR	0.001Kg	2
SG3-9-N-5	1-55-23-27-00-SG3	9	21	M5	3	ASG-54-5	1,5N	NBR	0.002Kg	2
SG3-9-N-18	1-55-23-28-00-SG3	9	21	G1/8	3	ASG-55-18	1,5N	NBR	0.004Kg	3
SG3-14-N-5	1-55-23-36-00-SG3	14	32	M5	3	ASG-54-5	4,1N	NBR	0.003Kg	2
SG3-14-N-18	1-55-23-37-00-SG3	14	32	G1/8	3	ASG-55-18	4,1N	NBR	0.005Kg	3
SG3-18-N-5	1-55-23-46-00-SG3	18	32	M5	3	ASG-54-5	6,1N	NBR	0.003Kg	2
SG3-18-N-18	1-55-23-47-00-SG3	18	32	G1/8	3	ASG-55-18	6,1N	NBR	0.006Kg	3
SG3-20-N-5	1-55-23-58-00-SG3	20	32	M5	3	ASG-54-5	6,4N	NBR	0.004Kg	2
SG3-20-N-18	1-55-23-59-00-SG3	20	32	G1/8	3	ASG-55-18	6,4N	NBR	0.006Kg	3
SG3-25-N-5	1-55-23-60-00-SG3	25	44	M5	3	ASG-54-5	9N	NBR	0.005Kg	2
SG3-25-N-18	1-55-23-71-00-SG3	25	44	G1/8	3	ASG-55-18	9N	NBR	0.008Kg	3
SG3-32-N-18	1-55-23-82-00-SG3	32	46	G1/8	14	ASG-58-18	16,8N	NBR	0.014Kg	5
SG3-42-N-18	1-55-23-86-00-SG3	42	59	G1/8	20	ASG-58-18	29N	NBR	0.023Kg	5
SG3-62-N-18	1-55-23-90-00-SG3	62	65	G1/8	26	ASG-58-18	57N	NBR	0.041Kg	5
SG3-90-N-14	1-55-23-92-00-SG3	90	101	G1/4	35	ASG-60-14	184N	NBR	0.177Kg	6

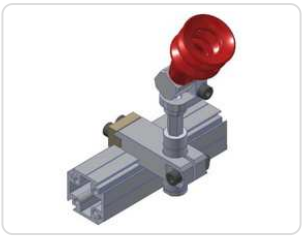
Legend: L = Suction pad stroke M = Adapter N = holding force with 2-fold safety and 90% vacuum holding force 10N = 1kg O = Material (see legend)

SG3 / VACUUM CUP 3 EDGE (COMPLETE)

SG3-P Vacuum Cup with 3 Bellows (complete) PU







ADVANTAGES

- V1 - Suction on curved surfaces
- V2 - extremely light (aluminium adapter)
- V3 - All adapters with hexagon socket
- V4 - Quick assembly

REMARK

- To protect the material, all suction pads are only fitted with the adapter on request. Availability is guaranteed.
- Adapter with internal thread on request
- Scope of delivery:
- Adapter ASG and pneumatic sealing ring PDR

INFO

- Material: polyurethane elastomer PU
- Colour: light brown
- Shore hardness: 65 to 95 Shore A
- Temperature resistance: -40°C to +80°C,
- briefly up to 130°C
- Flexibility: *
- Abrasion resistance: ***
- Resistance to oil: **
- Compatibility with food: -
- Area of application: for harsh environmental conditions

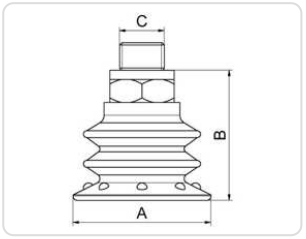
DESIGNATION	ITEM NO.	A	B	C	L	M	N	O	SW	WEIGHT
SG3-20-P-5	1-55-29-44-00-SG3	20	28	M5	9	ASG-54-5	18N	PU	2	0.003Kg
SG3-30-P-18	1-55-29-48-00-SG3	30	43	G1/8	15	ASG-84-18	36N	PU	5	0.011Kg
SG3-60-P-18	1-55-29-56-00-SG3	60	61	G1/8	27	ASG-84-18	120N	PU	5	0.04Kg

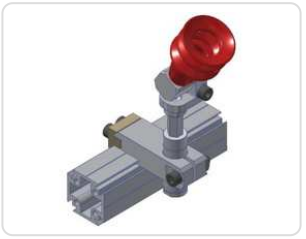
Legend: L = Suction pad stroke M = Adapter N = Holding force with 1-fold safety (-0.7bar) Holding force 10N = 1kg O = Material (see legend)

SG3 / VACUUM CUP 3 EDGE (COMPLETE)

SG3-PU-EH-LC Vacuum Cup with 3 Bellow polyurethane compl one hardness







ADVANTAGES

- V1 - these PU suction cups are made with single hardening from a
- specially developed polyurethane. This material
- combines the elasticity of rubber with the holding power of plastic
- V2 - Key features are good elasticity and
- flexibility, high tensile strength with high wear resistance
- V3 - Virtually silicone- and impression-free

REMARK

- Scope of delivery:
- including adapter and seal

INFO

- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- green suction cup: 50 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with food: -

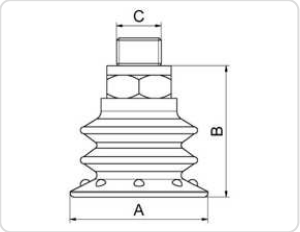
DESIGNATION	ITEM NO.	A	B	C	K	L	M	O	WEIGHT
SG3-15-PU-EH-50-18-LC	1-57-78-08-00-SG3	16	25	M5	50	6	ASG-150-5	PU	0.004Kg
SG3-15-PU-EH-50-18-LC	1-57-78-09-00-SG3	16	25	G1/8	50	6	ASG-152-18	PU	0.004Kg
SG3-20-PU-EH-50-18-LC	1-57-78-10-00-SG3	21	21	G1/8	50	6	ASG-202-18	PU	0.004Kg
SG3-25-PU-EH-50-18-LC	1-57-78-14-00-SG3	26	25,5	G1/8	50	9	ASG-202-18	PU	0.005Kg
SG3-30-PU-EH-50-18-LC	1-57-78-18-00-SG3	30	28	G1/8	50	11	ASG-202-18	PU	0.007Kg
SG3-35-PU-EH-50-18-LC	1-57-78-21-00-SG3	35	36	G1/8	50	13	ASG-203-18	PU	0.015Kg
SG3-35-PU-EH-50-14-LC	1-57-78-22-00-SG3	35	34	G1/4	50	13	ASG-204-14	PU	0.015Kg
SG3-40-PU-EH-50-18-LC	1-57-78-25-00-SG3	40	39	G1/8	50	14	ASG-203-18	PU	0.017Kg
SG3-40-PU-EH-50-14-LC	1-57-78-26-00-SG3	40	37	G1/4	50	14	ASG-204-14	PU	0.017Kg
SG3-50-PU-EH-50-18-LC	1-57-78-29-00-SG3	50	46,5	G1/8	50	17	ASG-207-18	PU	0.032Kg
SG3-50-PU-EH-50-14-LC	1-57-78-30-00-SG3	50	46,5	G1/4	50	17	ASG-205-14	PU	0.03Kg
SG3-50-PU-EH-50-38-LC	1-57-78-31-00-SG3	50	46,5	G3/8	50	17	ASG-206-38	PU	0.038Kg
SG3-70-PU-EH-50-38-LC	1-57-78-34-00-SG3	70	46,5	G3/8	50	25		PU	0.059Kg

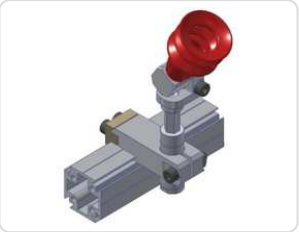
Legend: K = degree of hardness lip and bellows °Shore A L = Suction pad stroke M = adapter O = Material (see legend)

SG3 / VACUUM CUP 3 EDGE (COMPLETE)

SG3-PU-ZH-LC Vacuum Cup with 3 Bellows polyurethane compl two hardness







ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness. This makes them strong and stable as well as soft and flexible:
- Body 60 Shore /
- Suction lip 30 Shore
- V2 - these suction pads are made from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V3 - Virtually silicone and impression-free
- V4 - excellent sealing properties

REMARK

- Scope of delivery:
- incl. ASG adapter and pneumatic seal

INFO

- Material: Polyurethane (PU)
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

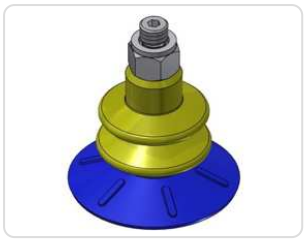
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG3-15-PU-ZH-30-60-5-LC	1-57-70-08-00-SG3	16	25	M5	30	60	6	ASG-150-5	4N	PU	0.004Kg
SG3-15-PU-ZH-30-60-18-LC	1-57-70-09-00-SG3	16	25	G1/8	30	60	6	ASG-152-18	4N	PU	0.004Kg
SG3-20-PU-ZH-30-60-18-LC	1-57-70-10-00-SG3	21	21	G1/8	30	60	6	ASG-202-18	4,4N	PU	0.004Kg
SG3-25-PU-ZH-30-60-18-LC	1-57-70-14-00-SG3	26	25,5	G1/8	30	60	9	ASG-202-18	9N	PU	0.005Kg
SG3-30-PU-ZH-30-60-18-LC	1-57-70-18-00-SG3	30	28	G1/8	30	60	11	ASG-202-18	12N	PU	0.007Kg
SG3-35-PU-ZH-30-60-18-LC	1-57-70-21-00-SG3	35	36	G1/8	30	60	13	ASG-203-18	16N	PU	0.015Kg
SG3-35-PU-ZH-30-60-14-LC	1-57-70-22-00-SG3	35	34	G1/4	30	60	13	ASG-204-14	16N	PU	0.015Kg
SG3-40-PU-ZH-30-60-18-LC	1-57-70-25-00-SG3	40	39	G1/8	30	60	14	ASG-203-18	20N	PU	0.017Kg
SG3-40-PU-ZH-30-60-14-LC	1-57-70-26-00-SG3	40	37	G1/4	30	60	14	ASG-204-14	20N	PU	0.017Kg
SG3-50-PU-ZH-30-60-18-LC	1-57-70-28-00-SG3	50	46,5	G1/8	30	60	17	ASG-207-18	40N	PU	0.031Kg
SG3-50-PU-ZH-30-60-14-LC	1-57-70-29-00-SG3	50	46,5	G1/4	30	60	17	ASG-205-14	40N	PU	0.031Kg

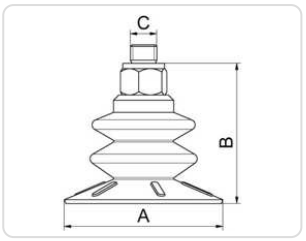
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG3-50-PU-ZH-30-60-38-LC	1-57-70-30-00-SG3	50	46,5	G3/8	30	60	17	ASG-206-38	40N	PU	0.032Kg
SG3-70-PU-ZH-30-60-38-LC	1-57-70-34-00-SG3	70	46,5	G3/8	30	60	25	-	60N	PU	0.059Kg

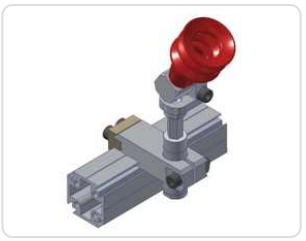
Legend: J = Lip hardness °Shore A K = Bellows hardness °Shore A L = Suction pad stroke M = ASG adapter N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

SG3 / VACUUM CUP 3 EDGE (COMPLETE)

SG3-PU-ZH-FL-LC Vacuum Cup with 3 Bellows polyurethane compl 2 hardness flexible lip







ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness.
- This gives them a secure and stable grip but also
- soft and flexible: body 55 Shore / suction lip 30 Shore
- V2 - these suction pads are made from a specially developed
- polyurethane. This material combines the elasticity
- of rubber with the holding power of plastic
- V3 - Virtually silicone and impression-free
- V4 - excellent sealing properties

REMARK

- Scope of delivery:
- incl. ASG adapter and pneumatic seal

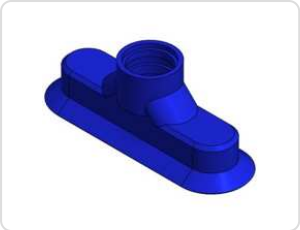
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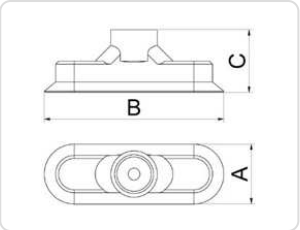
- Material: Polyurethane (PU)
- Shore hardness: lip 30 °Shore A, bellows 55 °Shore A
- Temperature resistance: 5°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG3-25-PU-30-55-18-LC	1-57-80-08-00-SG3	25	22	G1/8	30	55	6,5	ASG-202-18-LC	8,2N	PU	0.006Kg
SG3-35-PU-ZH-30-55-18-FL-LC	1-57-80-12-00-SG3	35	29	G1/8	30	55	10	ASG-202-18-LC	14,7N	PU	0.008Kg
SG3-45-PU-ZH-30-55-18-FL-LC	1-57-80-18-00-SG3	45	39,5	G1/8	30	55	15	ASG-203-18-LC	23N	PU	0.018Kg
SG3-45-PU-ZH-30-55-14-FL-LC	1-57-80-20-00-SG3	45	37,5	G1/4	30	55	15	ASG-ASG-204-14	23N	PU	0.018Kg
SG3-55-PU-ZH-30-55-18-FL-LC	1-57-80-24-00-SG3	53,6	47,5	G1/8	30	55	17	ASG-207-18-LC	35N	PU	0.032Kg
SG3-55-PU-ZH-30-55-14-FL-LC	1-57-80-26-00-SG3	53,6	47,5	G1/4	30	55	17	ASG-205-14-LC	35N	PU	0.03Kg
SG3-55-PU-ZH-30-55-38-FL-LC	1-57-80-28-00-SG3	53,6	47,5	G3/8	30	55	17	ASG-206-38-LC	35N	PU	0.038Kg

Legend: J = Lip hardness °Shore A K = Bellows hardness °Shore A L = Suction pad stroke M = ASG adapter N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

GN0 Vacuum Cup Oval only SG0





REMARK

- Please clean the suction surfaces with a lint-free cloth and acetone! So no marks are left by using the suction cup
- on the workpiece.

INFO

- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Area of application: Painting plastic parts,
- does not leave a mark
- Material: Silicone (S)
- Colour: white
- Shore hardness: 55 +/- 5
- Temperature range: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Compatibility with food: ***
- Area of application: Grained surfaces
- For optimum impression behaviour, please clean the suction surfaces with a lint-free cloth and acetone!

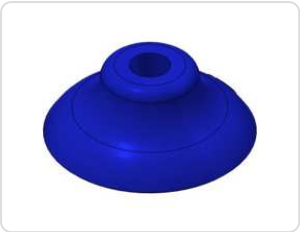
DESIGNATION	ITEM NO.	A	B	C	M	N	O	WEIGHT	X
GNO-2-4-HE	1-55-10-10-02-GN0	2	4	6	-	ASG-10-5	HE	0.001Kg	-
GNO-3,5-7-HE	1-55-10-14-02-GN0	3,5	7	6	-	ASG-10-5	HE	0.001Kg	-
GNO-5-15-HE	1-55-10-18-02-GN0	5	15	12	-	ASG-12-5	HE	0.001Kg	-
GNO-6-18-HE	1-55-10-22-02-GN0	6	18	12	-	ASG-12-5	HE	0.001Kg	-
GNO-8-24-HE	1-55-10-26-02-GN0	8	24	12	ASG-13-5	ASG-14-18	HE	0.001Kg	-
GNO-10-30-HE	1-55-10-30-02-GN0	10	30	12	ASG-13-5	ASG-14-18	HE	0.001Kg	-
GNO-15-45-HE	1-55-10-34-02-GN0	15	45	21	ASG-18-18	ASG-16-14	HE	0.004Kg	1
GNO-20-60-HE	1-55-10-38-02-GN0	20	60	21	ASG-18-18	ASG-16-14	HE	0.007Kg	1
GNO-25-75-HE	1-55-10-42-02-GN0	25	75	21	ASG-18-18	ASG-16-14	HE	0.014Kg	2
GNO-30-90-HE	1-55-10-44-02-GN0	30	90	21	ASG-18-18	ASG-16-14	HE	0.022Kg	2
GN0-2-4-N	1-55-11-10-02-GN0	2	4	6	-	ASG-10-5	NBR	0.001Kg	-
GN0-3,5-7-N	1-55-11-14-02-GN0	3,5	7	6	-	ASG-10-5	NBR	0.001Kg	-
GN0-5-15-N	1-55-11-18-02-GN0	5	15	12	-	ASG-12-5	NBR	0.001Kg	-
GN0-6-18-N	1-55-11-22-02-GN0	6	18	12	-	ASG-12-5	NBR	0.001Kg	-
GN0-8-24-N	1-55-11-26-02-GN0	8	24	12	ASG-13-5	ASG-14-18	NBR	0.001Kg	-
GN0-10-30-N	1-55-11-30-02-GN0	10	30	12	ASG-13-5	ASG-14-18	NBR	0.001Kg	-
GN0-15-45-N	1-55-11-34-02-GN0	15	45	21	ASG-18-18	ASG-18-18	NBR	0.004Kg	1
GN0-20-60-N	1-55-11-38-02-GN0	20	60	21	ASG-18-18	ASG-16-14	NBR	0.007Kg	1
GN0-25-75-N	1-55-11-42-02-GN0	25	75	21	ASG-18-18	ASG-16-14	NBR	0.014Kg	2
GNO-30-90-HE	1-55-11-44-02-GN0	30	90	21	ASG-18-18	ASG-16-14	NBR	0.022Kg	2
GN0-2-4-S	1-55-12-02-02-GN0	2	4	6	-	ASG-10-5	S	0.001Kg	-
GN0-3,5-7-S	1-55-12-04-02-GN0	3,5	7	6	-	ASG-10-5	S	0.001Kg	-
GN0-5-15-S	1-55-12-06-02-GN0	5	15	12	-	ASG-12-5	S	0.001Kg	-
GN0-6-18-S	1-55-12-08-02-GN0	6	18	12	-	ASG-12-5	S	0.001Kg	-

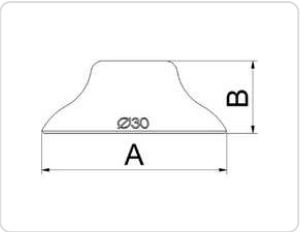
DESIGNATION	ITEM NO.	A	B	C	M	N	O	WEIGHT	X
GN0-8-24-S	1-55-12-10-02-GN0	8	24	12	ASG-13-5	ASG-14-18	S	0.001Kg	-
GN0-10-30-S	1-55-12-12-02-GN0	10	30	12	ASG-13-5	ASG-14-18	S	0.001Kg	-
GN0-15-45-S	1-55-12-16-02-GN0	15	45	21	ASG-18-18	ASG-16-14	S	0.004Kg	1
GN0-20-60-S	1-55-12-20-02-GN0	20	60	21	ASG-18-18	ASG-16-14	S	0.004Kg	1
GN0-25-75-N	1-55-12-24-02-GN0	25	75	21	ASG-18-18	ASG-16-14	S	0.014Kg	2
GN0-30-90-S	1-55-12-28-02-GN0	30	90	21	ASG-18-18	ASG-16-14	S	0.022Kg	2

Legend: O = material (see legend) X = matching 2-ear clamp 1 = ZOS-15-17-4 2 = ZOS-15-18-4

GN1 / VACUUM CUP

GN1 Vacuum Cup with 1 Bellow only





INFO

- Material: Silicone (S)
- Colour: white
- Shore hardness: 55 +/- 5
- Temperature range: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Compatibility with food: ***
- Area of application: Grained surfaces
- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with food: -
- Area of application: Painting of plastic parts,
- does not leave a mark
- For optimum impression behaviour, please clean the
- suction surfaces with a lint-free cloth
- and acetone!
- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: *
- Resistance to oil: **
- Compatibility with food: -

DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN1-2-S	1-55-14-10-02-GN1	2	4	S	0.001Kg
GN1-3,5-S	1-55-14-13-02-GN1	3,5	4	S	0.001Kg
GN1-5-S	1-55-14-16-02-GN1	5	7	S	0.001Kg
GN1-5-HE	1-55-14-19-02-GN1	5	7	HE	0.001Kg
GN1-8-S	1-55-14-22-02-GN1	8	8	S	0.001Kg
GN1-8-HE	1-55-14-25-02-GN1	8	8	HE	0.001Kg
GN1-10-S	1-55-14-28-02-GN1	10	8	S	0.001Kg
GN1-10-HE	1-55-14-31-02-GN1	10	8	HE	0.001Kg
GN1-15-S	1-55-14-34-02-GN1	15	10	S	0.001Kg
GN1-15-HE	1-55-14-37-02-GN1	15	10	HE	0.001Kg
GN1-20-S	1-55-14-40-02-GN1	20	11	S	0.001Kg
GN1-20-HE	1-55-14-43-02-GN1	20	11	HE	0.001Kg
GN1-25-S	1-55-14-46-02-GN1	25	15	S	0.001Kg
GN1-25-HE	1-55-14-49-02-GN1	25	15	HE	0.001Kg
GN1-30-S	1-55-14-52-02-GN1	30	15	S	0.003Kg

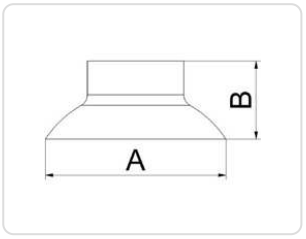
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN1-30-HE	1-55-14-55-02-GN1	30	13	HE	0.003Kg
GN1-40-S	1-55-14-58-02-GN1	40	15	S	0.007Kg
GN1-40-HE	1-55-14-61-02-GN1	43	15	HE	0.007Kg
GN1-50-S	1-55-14-64-02-GN1	50	16	S	0.01Kg
GN1-50-HE	1-55-14-67-02-GN1	53	16	HE	0.01Kg
GN1-60-S	1-55-14-70-02-GN1	60	17	S	0.024Kg
GN1-60-HE	1-55-14-73-02-GN1	60	17	HE	0.024Kg
GN1-80-S	1-55-14-76-02-GN1	80	19	S	0.052Kg
GN1-80-HE	1-55-14-79-02-GN1	80	19	HE	0.052Kg
GN1-95-S	1-55-14-82-02-GN1	95	19	S	0.09Kg
GN1-95-HE	1-55-14-84-02-GN1	95	19	HE	0.09Kg
GN1-2-S	1-55-15-10-02-GN1	2	4	NBR	0.001Kg
GN1-3,5-N	1-55-15-13-02-GN1	3,5	4	NBR	0.001Kg
GN1-5-N	1-55-15-19-02-GN1	5	7	NBR	0.001Kg
GN1-8-N	1-55-15-25-02-GN1	8	8	NBR	0.001Kg
GN1-10-N	1-55-15-31-02-GN1	10	8	NBR	0.001Kg
GN1-15-N	1-55-15-37-02-GN1	15	11	NBR	0.001Kg
GN1-20-N	1-55-15-43-02-GN1	20	11	NBR	0.001Kg
GN1-25-N	1-55-15-49-02-GN1	25	15	NBR	0.001Kg
GN1-30-N	1-55-15-55-02-GN1	30	13	NBR	0.003Kg
GN1-40-N	1-55-15-61-02-GN1	40	15	NBR	0.007Kg
GN1-50-N	1-55-15-67-02-GN1	50	16	NBR	0.01Kg
GN1-60-N	1-55-15-73-02-GN1	60	17	NBR	0.024Kg
GN1-80-N	1-55-15-79-02-GN1	80	19	NBR	0.052Kg
GN1-95-N	1-55-15-84-02-GN1	95	19	NBR	0.09Kg

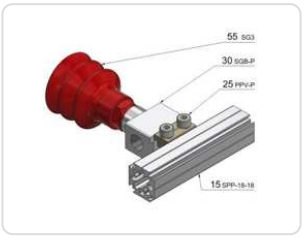
Legend: O = Material (see legend)

GN1 / VACUUM CUP

GN1-P Vacuum Cup with 1 Bellow only







ADVANTAGES

- V1 - Suction on curved surfaces

INFO

- Material: Polyurethane elastomer PU
- Colour: light brown
- Shore hardness: 65 to 95 Shore A
- Temperature resistance: -40°C to +80°C,
- briefly up to 130°C
- Flexibility: *
- Abrasion resistance: ***
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application: for harsh environmental conditions

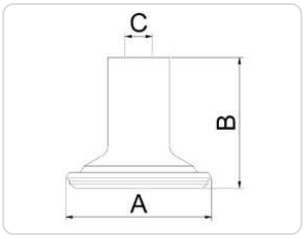
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN1-20-P	1-55-29-06-02-GN1	20	13,6	PU	0.001Kg
GN1-30-P	1-55-29-10-02-GN1	30	13	PU	0.003Kg
GN1-50-P	1-55-29-16-02-GN1	50	17	PU	0.006Kg

Legend: O = Material (see legend)

GN1 / VACUUM CUP

GN1-HT Vacuum Cup with 1 Bellow only High Temperature





ADVANTAGES

- V1 - Temperature resistant up to 550°C for short periods
- V2 - Attachable to tube

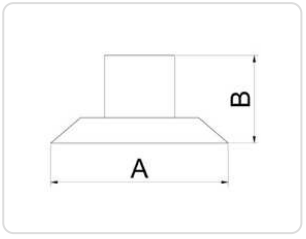
DESIGNATION	ITEM NO.	A	B	C	O	WEIGHT
GN1-30-HT	1-55-30-10-02-GN1	30	35	8	S	0.006Kg
GN1-40-HT	1-55-30-14-02-GN1	40	35	8	S	0.01Kg
GN1-70-HT	1-55-30-18-02-GN1	70	36	8	S	0.025Kg

Legend: O = Material (see legend)

GN1 / VACUUM CUP

GN1-P-S Vacuum Cup with 1 Bellow only - for Paper





ADVANTAGES

- V1 - very low abrasion when handling paper and cardboard
- V2 - very thin suction lips for handling highly flexible materials

INFO

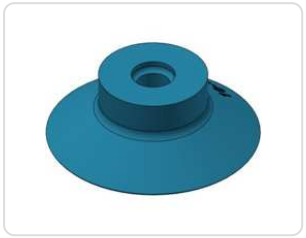
- Material:
- Transparent silicone (S) Shore hardness 50

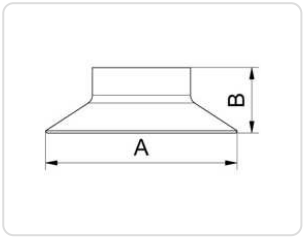
DESIGNATION	ITEM NO.	A	B	N	O
GN1-25-P-S	1-55-38-20-02-GN1	25	11	9	S

Legend: N = Holding force with 2-fold safety and 90% vacuum O = Material (see legend)

GN1 / VACUUM CUP

GN1-PU-EH-LC Vacuum Cup with 1 Bellow polyurethane one hardness





ADVANTAGES

- V1 - these PU suction cups are made with single curing from a
- specially developed polyurethane. This material
- combines the elasticity of rubber with the holding power of plastic
- V2 - The suction cups are available in two different Shore hardnesses
- (40 and 60°Shore)
- V3 - Key features are good elasticity and
- flexibility, high tensile strength with high wear resistance
- V4 - Virtually silicone and impression free

INFO

- Area of application:
- Suitable for cardboard, packaging materials, plastic sheets, metal sheets, etc.
- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- blue suction cups: 60 °Shore
- yellow suction cups: 40 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

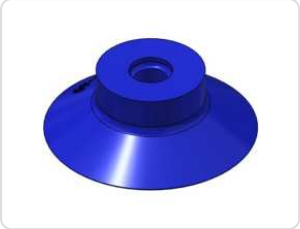
DESIGNATION	ITEM NO.	A	B	K	L	N	O	WEIGHT
GN1-20-PU-EH-40-LC	1-57-72-09-02-GN1	22	8,5	40	2	7,5N	PU	0.001Kg

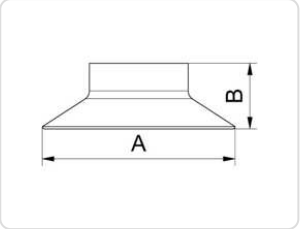
DESIGNATION	ITEM NO.	A	B	K	L	N	O	WEIGHT
GN1-20-PU-EH-60-LC	1-57-72-10-02-GN1	22	8,5	60	2	7,5N	PU	0.001Kg
GN1-30-PU-EH-40-LC	1-57-72-13-02-GN1	31	10,5	40	2	16,2N	PU	0.002Kg
GN1-30-PU-EH-60-LC	1-57-72-14-02-GN1	31	10,5	60	2	16,2N	PU	0.002Kg
GN1-40-PU-EH-40-LC	1-57-72-17-02-GN1	41	14	40	2,5	28N	PU	0.006Kg
GN1-40-PU-EH-60-LC	1-57-72-18-02-GN1	41	14	60	2,5	28N	PU	0.006Kg

Legend: K = degree of hardness lip and bellows °Shore A L = Suction pad stroke N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

GN1 / VACUUM CUP

GN1-PU-EH-SR-LC Vacuum Cup with 2 Bellows polyurethane one hardness internal cleats





ADVANTAGES

- V1 - these PU suction cups are made from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - The suction cups are available in two different Shore hardnesses (40 and 60°Shore)
- V3 - Key features are good elasticity and flexibility, high tensile strength with high wear resistance
- V4 - Virtually silicone and impression-free
- V5 - The inner support ribs ensure a good grip and stability

INFO

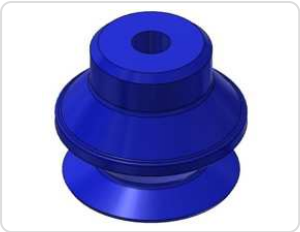
- Area of application:
- The suction pads are suitable for flat, slightly curved and oily surfaces. They are used particularly in the automotive industry
- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- blue suction pads: 60 °Shore
- yellow suction pads: 40 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

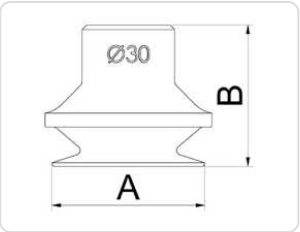
DESIGNATION	ITEM NO.	A	B	K	L	N	O	WEIGHT
GN1-20-PU-EH-40-SR-LC	1-57-76-09-02-GN1	21,5	10	40	3	8N	PU	0.001Kg
GN1-20-PU-EH-60-SR-LC	1-57-76-10-02-GN1	21,5	10	60	3	8N	PU	0.001Kg
GN1-30-PU-EH-40-SR-LC	1-57-76-13-02-GN1	31,5	13,5	40	4,5	20N	PU	0.002Kg
GN1-30-PU-EH-60-SR-LC	1-57-76-14-02-GN1	31,5	13,5	60	4,5	20N	PU	0.002Kg
GN1-40-PU-EH-40-SR-LC	1-57-76-17-02-GN1	40	16	40	5	32N	PU	0.007Kg
GN1-40-PU-EH-60-SR-LC	1-57-76-18-02-GN1	40	16	60	5	32N	PU	0.007Kg

Legend: K = degree of hardness lip and bellows °Shore A L = suction pad stroke N = holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = material (see legend)

GN2 / VACUUM CUP

GN2 Vacuum Cup with 2 Bellows only





INFO

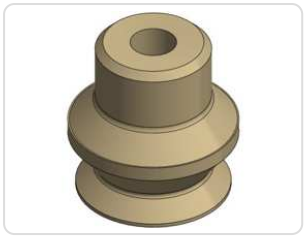
- Material: Silicone (S)
- Colour: white
- Shore hardness: 55 +/- 5
- Temperature range: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Compatibility with food: ***
- Area of application: Grained surfaces
- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20°C to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with food: -
- Area of application: Painting of plastic parts,
- does not leave a mark
- For optimum impression behaviour, please clean the
- suction surfaces with a lint-free cloth
- and acetone !
- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: *
- Resistance to oil: **
- Compatibility with food: -

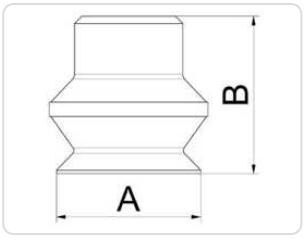
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN2-10-S	1-55-18-05-02-GN2	10	14	S	0.001Kg
GN2-10-HE	1-55-18-07-02-GN2	10	14	HE	0.001Kg
GN2-15-S	1-55-18-10-02-GN2	15	16	S	0.001Kg
GN2-15-HE	1-55-18-12-02-GN2	15	16	HE	0.001Kg
GN2-20-S	1-55-18-33-02-GN2	20	22	S	0.003Kg
GN2-20-HE	1-55-18-35-02-GN2	20	22	HE	0.003Kg
GN2-30-S	1-55-18-51-02-GN2	30	31	S	0.008Kg
GN2-33-HE	1-55-18-55-02-GN2	33	31	HE	0.008Kg
GN2-40-S	1-55-18-61-02-GN2	40	31	S	0.01Kg
GN2-43-HE	1-55-18-63-02-GN2	43	28	HE	0.014Kg
GN2-50-S	1-55-18-71-02-GN2	50	37	S	0.021Kg
GN2-53-HE	1-55-18-74-02-GN2	53	34	HE	0.021Kg
GN2-75-S	1-55-18-90-02-GN2	75	42	S	0.082Kg
GN2-75-HE	1-55-18-93-02-GN2	75	42	HE	0.082Kg
GN2-10-N	1-55-19-07-02-GN2	10	14	NBR	0.001Kg
GN2-15-N	1-55-19-12-02-GN2	15	16	NBR	0.001Kg
GN2-20-N	1-55-19-35-02-GN2	20	22	NBR	0.003Kg
GN2-30-N	1-55-19-55-02-GN2	30	31	NBR	0.008Kg
GN2-40-N	1-55-19-63-02-GN2	40	31	NBR	0.014Kg
GN2-50-N	1-55-19-74-02-GN2	50	37	NBR	0.021Kg
GN2-75-N	1-55-19-93-02-GN2	75	42	NBR	0.082Kg

Legend: O = Material (see legend)

GN2 / VACUUM CUP

GN2-P Vacuum Cup with 2 Bellows only





ADVANTAGES

- V1 - Suction on curved surfaces

INFO

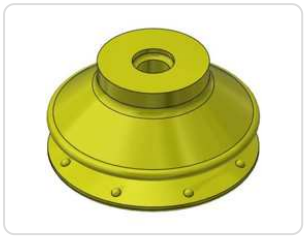
- Material: polyurethane elastomer PU
- Colour: light brown
- Shore hardness: 65 to 95 Shore A
- Temperature resistance: -40°C to +80°C, briefly up to 130°C
- Flexibility: *
- Abrasion resistance: ***
- Resistance to oil: **
- Compatibility with food: -
- Area of application: for harsh environmental conditions

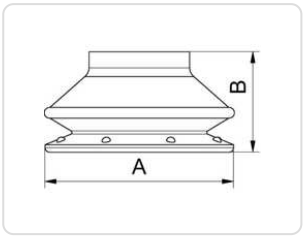
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN2-20-P	1-55-29-22-02-GN2	20	22	PU	0.002Kg
GN2-30-P	1-55-29-26-02-GN2	30	30	PU	0.007Kg
GN2-50-P	1-55-29-34-02-GN2	50	36,5	PU	0.002Kg

Legend: O = Material (see legend)

GN2 / VACUUM CUP

GN2-PU-EH-LC Vacuum Cup with 2 Bellows polyurethane one hardness





ADVANTAGES

- V1 - these PU suction cups are made with single hardening from a
- specially developed polyurethane. This material
- combines the elasticity of rubber with the holding power of plastic
- V2 - Key features are good elasticity and
- flexibility, high tensile strength with high wear resistance
- V3 - Virtually silicone and impression free

INFO

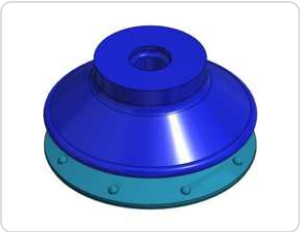
- Area of application:
- Suitable for slightly convex surfaces, as the suction cup compensates for slight differences in height. The suction cup is also suitable for separating thin materials.
- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- yellow suction cup: 40 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

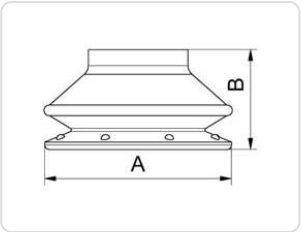
DESIGNATION	ITEM NO.	A	B	K	L	N	O	WEIGHT
GN2-10-PU-EH-40-LC	1-57-78-46-02-GN2	11	16,5	40	4	1,6N	PU	0.001Kg
GN2-15-PU-EH-40-LC	1-57-78-50-02-GN2	16	19	40	5	3,8N	PU	0.002Kg
GN2-20-PU-EH-40-LC	1-57-78-56-02-GN2	21	18	40	6	5,9N	PU	0.004Kg
GN2-30-PU-EH-40-LC	1-57-78-62-02-GN2	31,5	17	40	6	15,7N	PU	0.004Kg
GN2-40-PU-EH-40-LC	1-57-78-68-02-GN2	42	22,5	40	8	26,8N	PU	0.011Kg
GN2-50-PU-EH-40-LC	1-57-78-72-02-GN2	52,5	29	40	12	40N	PU	0.02Kg

Legend: K = degree of hardness lip and bellows °Shore A L = Suction pad stroke N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

GN2 / VACUUM CUP

GN2-PU-ZH-LC Vacuum Cup with 2 Bellows polyurethane two hardness





ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness. This makes them strong and stable as well as soft and flexible:
- Body 60 Shore
- Suction lip 30 Shore
- V2 - these suction cups are made from a specially
- developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V3 - Virtually silicone and impression-free
- V4 - excellent sealing properties

REMARK

Suction cups with a diameter of 10 mm are manufactured with a single hardening (60 ° Shore A)

INFO

- Area of application:
- Suitable for workpieces with curved and uneven surfaces, as the suction cup can compensate for height differences and curvatures on the workpiece
- Material: Polyurethane (PU)
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

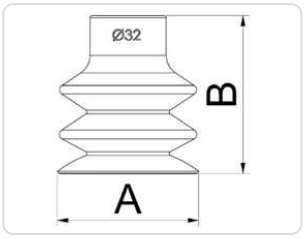
DESIGNATION	ITEM NO.	A	B	J	K	L	N	O	WEIGHT
GN2-10-PU-ZH-60-LC	1-57-70-46-02-GN2	11	16,5	-	60	6	1,3N	PU	0.001Kg
GN2-15-PU-ZH-30-60-LC	1-57-70-50-02-GN2	16	19	30	60	6	3,5N	PU	0.002Kg
GN2-20-PU-ZH-30-60-LC	1-57-70-56-02-GN2	21	18	30	60	9	5,7N	PU	0.002Kg
GN2-30-PU-ZH-30-60-LC	1-57-70-62-02-GN2	31,5	17	30	60	9	15N	PU	0.004Kg
GN2-40-PU-ZH-30-60-LC	1-57-70-68-02-GN2	42	22,5	30	60	11	25N	PU	0.011Kg
GN2-50-PU-ZH-30-60-LC	1-57-70-74-02-GN2	52,5	29	30	60	12	40N	PU	0.02Kg

Legend: J = Lip hardness °Shore A K = Bellows hardness °Shore A L = Suction pad stroke N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

GN3 / VACUUM CUP

GN3 Vacuum Cup with 3 Bellows only





INFO

- Material: Silicone (S)
- Colour: white
- Shore hardness: 55 +/- 5
- Temperature range: -30°C to 200°C
- Flexibility: ***
- Abrasion resistance: -
- Resistance to oil: -
- Compatibility with food: ***
- Area of application: Grained surfaces
- Material: Nitrile (NBR)
- Colour: black
- Shore hardness: 60 +/- 5
- Temperature resistance: -0°C to 80°C
- Flexibility: *
- Abrasion resistance: *
- Resistance to oil: **
- Compatibility with food: -
- Material: High-performance elastomer (HE)
- Colour: blue
- Shore hardness: 60 +/- 5
- Temperature resistance: -20° to 150°C
- Flexibility: *
- Abrasion resistance: **
- Resistance to oil: **
- Compatibility with food: -
- Area of application: Painting of plastic parts,
- leaves no imprint
- For optimum impression behaviour, please clean the
- absorbent surfaces with a lint-free cloth
- and acetone !

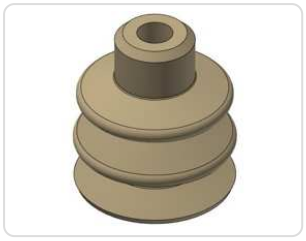
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN3-5-S	1-55-22-11-02-GN3	5	10	S	0.001Kg
GN3-5-HE	1-55-22-13-02-GN3	5	10	HE	0.001Kg
GN3-7-S	1-55-22-16-02-GN3	7	10	S	0.001Kg
GN3-7-HE	1-55-22-18-02-GN3	7	10	HE	0.001Kg
GN3-9-S	1-55-22-22-02-GN3	9	15	S	0.001Kg
GN3-9-HE	1-55-22-27-02-GN3	9	15	HE	0.001Kg
GN3-14-S	1-55-22-32-02-GN3	14	23	S	0.001Kg
GN3-14-HE	1-55-22-36-02-GN3	14	23	HE	0.001Kg
GN3-18-S	1-55-22-42-02-GN3	18	23	S	0.002Kg
GN3-18-HE	1-55-22-46-02-GN3	18	23	HE	0.002Kg
GN3-20-S	1-55-22-52-02-GN3	20	23	S	0.002Kg
GN3-20-HE	1-55-22-58-02-GN3	20	23	HE	0.002Kg
GN3-25-HE	1-55-22-60-02-GN3	25	34	HE	0.004Kg
GN3-25-S	1-55-22-62-02-GN3	25	34	S	0.004Kg
GN3-32-S	1-55-22-80-02-GN3	32	34	S	0.009Kg
GN3-32-HE	1-55-22-82-02-GN3	32	34	HE	0.009Kg
GN3-42-S	1-55-22-84-02-GN3	42	46	S	0.018Kg
GN3-42-HE	1-55-22-86-02-GN3	42	46	HE	0.018Kg
GN3-62-S	1-55-22-88-02-GN3	62	54	S	0.037Kg
GN3-62-HE	1-55-22-90-02-GN3	62	54	HE	0.037Kg
GN3-88-S	1-55-22-92-02-GN3	88	86	S	0.161Kg
GN3-5-N	1-55-23-13-02-GN3	5	10	NBR	0.001Kg
GN3-7-N	1-55-23-18-02-GN3	7	10	NBR	0.001Kg
GN3-9-N	1-55-23-27-02-GN3	9	15	NBR	0.001Kg
GN3-14-N	1-55-23-36-02-GN3	14	23	NBR	0.001Kg

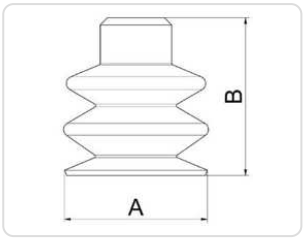
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN3-18-N	1-55-23-46-02-GN3	18	23	NBR	0.002Kg
GN3-20-N	1-55-23-58-02-GN3	20	23	NBR	0.002Kg
GN3-25-N	1-55-23-60-02-GN3	25	34	NBR	0.004Kg
GN3-32-N	1-55-23-82-02-GN3	32	34	NBR	0.009Kg
GN3-42-N	1-55-23-86-02-GN3	42	46	NBR	0.018Kg
GN3-62-N	1-55-23-90-02-GN3	62	54	NBR	0.037Kg
GN3-90-N	1-55-23-92-02-GN3	90	86	NBR	0.161Kg

Legend: O = Material (see legend)

GN3 / VACUUM CUP

GN3-P Vacuum Cup with 3 Bellows only PU





ADVANTAGES

- V1 - Suction on curved surfaces

INFO

- Material: Polyurethane elastomer PU
- Colour: light brown
- Shore hardness: 65 to 95 Shore A
- Temperature resistance: -40°C to +80°C,
- briefly up to 130°C
- Flexibility: *
- Abrasion resistance: ***
- Resistance to oil: **
- Compatibility with food: -
- Area of application: for harsh environmental conditions

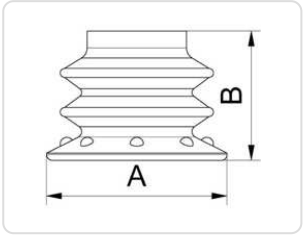
DESIGNATION	ITEM NO.	A	B	O	WEIGHT
GN3-20-P	1-55-29-44-02-GN3	20	22	PU	0.002Kg
GN3-30-P	1-55-29-48-02-GN3	30	37,5	PU	0.007Kg
GN3-60-P	1-55-29-56-02-GN3	60	55	PU	0.036Kg

Legend: O = Material (see legend)

GN3 / VACUUM CUP

GN3-PU-EH-LC Vacuum Cup with 3 Bellows polyurethane one hardness





ADVANTAGES

- V1 - these PU suction cups are made with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - Key features are good elasticity and flexibility, high tensile strength with high wear resistance
- V3 - Virtually silicone and impression free

INFO

- Area of application:
- The suction cup is very well suited for gripping curved and uneven surfaces
- Material: PU specially developed polyurethane with single hardness
- Shore hardness:
- green suction cup: 50 °Shore
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with food: -

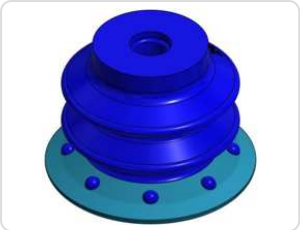
DESIGNATION	ITEM NO.	A	B	K	L	O	WEIGHT
GN3-15-PU-EH-50-LC	1-57-78-08-02-GN3	16	19	50	6	PU	0.002Kg
GN3-20-PU-EH-50-LC	1-57-78-10-02-GN3	21	14,5	50	6	PU	0.003Kg
GN3-25-PU-EH-50-LC	1-57-78-14-02-GN3	26	19	50	9	PU	0.003Kg
GN3-30-PU-EH-50-LC	1-57-78-18-02-GN3	30	21,5	50	11	PU	0.003Kg

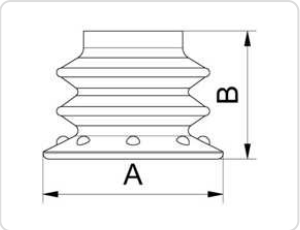
DESIGNATION	ITEM NO.	A	B	K	L	O	WEIGHT
GN3-35-PU-EH-50-LC	1-57-78-22-02-GN3	35	25,5	50	13	PU	0.007Kg
GN3-40-PU-EH-50-LC	1-57-78-26-02-GN3	40	28,5	50	14	PU	0.009Kg
GN3-50-PU-EH-50-LC	1-57-78-30-02-GN3	50	35,5	50	17	PU	0.019Kg

Legend: K = degree of hardness lip and bellows °Shore A L = Suction pad stroke O = Material (see legend)

GN3 / VACUUM CUP

GN3-PU-ZH-LC Vacuum Cup with 3 Bellows polyurethane two hardness





ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness. This makes them strong and stable and
- equally soft and flexible: body 60 Shore /
- suction lip 30 Shore
- V2 - these suction cups are made from a specially
- developed polyurethane. This material
- combines the elasticity of rubber with the holding power
- of plastic
- V3 - virtually silicone- and impression-free
- V4 - excellent sealing properties

INFO

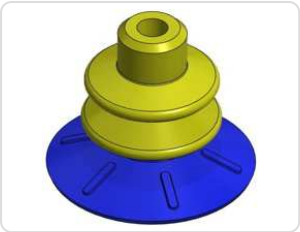
- Area of application:
- Suitable for workpieces with curved and uneven surfaces, as the suction cup can compensate for height differences and curvatures on the workpiece
- Material: Polyurethane (PU)
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

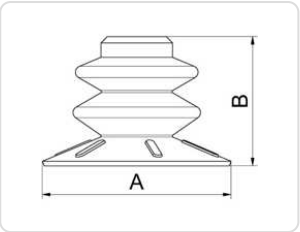
DESIGNATION	ITEM NO.	A	B	J	K	L	N	O	WEIGHT
GN3-15-PU-ZH-30-60-LC	1-57-70-08-02-GN3	16	19	30	60	6	4N	PU	0.002Kg
GN3-20-PU-ZH-30-60-LC	1-57-70-10-02-GN3	21	14,5	30	60	6	4,4N	PU	
GN3-25-PU-ZH-30-60-LC	1-57-70-14-02-GN3	26	19	30	60	9	9N	PU	0.003Kg
GN3-30-PU-ZH-30-60-LC	1-57-70-18-02-GN3	30	21,5	30	60	11	12N	PU	0.003Kg
GN3-35-PU-ZH-30-60-LC	1-57-70-22-02-GN3	35	25,5	30	60	13	16N	PU	0.007Kg
GN3-40-PU-ZH-30-60-LC	1-57-70-26-02-GN3	40	28,5	30	60	14	20N	PU	0.009Kg
GN3-50-PU-ZH-30-60-LC	1-57-70-30-02-GN3	50	35,5	30	60	17	40N	PU	0.019Kg

Legend: J = Lip hardness °Shore A K = Bellows hardness °Shore A L = Suction pad stroke N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

GN3 / VACUUM CUP

GN3-PU-ZH-FL-LC Vacuum Cup with 3 Bellows polyurethane 2 hardness flexible lip





ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness.
- This gives them a secure and stable grip but also
- soft and flexible: body 55 Shore / suction lip 30 Shore
- V2 - these suction cups are made from a specially developed
- polyurethane. This material combines the elasticity
- of rubber with the holding power of plastic
- V3 - Virtually silicone and impression-free
- V4 - excellent sealing properties

INFO

- Area of application:
- Suitable for workpieces with curved and uneven
- surfaces, as the suction cup can compensate for height differences and
- curvatures on the workpiece
- Material: Polyurethane (PU)
- Shore hardness: lip 30 °Shore A, bellows 55 °Shore A
- Temperature resistance: 5°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -

DESIGNATION	ITEM NO.	A	B	J	K	L	N	O	WEIGHT
GN3-25-PU-ZH-30-55-FL-LC	1-57-80-08-02-GN3	25	15,5	30	55	6,5	8,2N	PU	
GN3-35-PU-ZH-30-55-FL-LC	1-57-80-12-02-GN3	35	22,3	30	55	10	14,7N	PU	0.004Kg
GN3-45-PU-ZH-30-55-FL-LC	1-57-80-18-02-GN3	45	29,2	30	55	15	23N	PU	0.01Kg
GN3-55-PU-ZH-30-55-FL-LC	1-57-80-24-02-GN3	55	36,4	30	55	17	35N	PU	0.02Kg

Legend: J = Lip hardness °Shore A K = Bellows hardness °Shore A L = Suction pad stroke N = Holding force (vertical lifting direction) at vacuum -0.6 bar, 2-fold safety, holding force 10N = 1kg O = Material (see legend)

57.0 - VACUUM CUPS PIAB

Info 2 Material Information



INFO

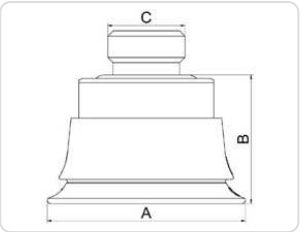
- Material: Thermoplastic elastomers (TPE)
- Material: silicone (SI)

DESIGNATION	ITEM NO.
Material: Thermoplastisches Elastomer (TPE)	1-55-99-99-20-MAT
Material: Thermoplastisches Elastomer (TPE-F)	1-55-99-99-22-MAT
Material: Hochleistungs-Elastomer (HNBR)	1-55-99-99-24-MAT
Material: Solid natural rubber (NR)	1-55-99-99-26-MAT
Material: Silicone (SI)	1-55-99-99-28-MAT
Material: Duraflex with double hardness (DF)	1-55-99-99-30-MAT
Material: Polyurethane with single hardness (PU)	1-55-99-99-32-MAT
Material: Silicone (SI-FDA)	1-55-99-99-34-MAT

57.0 - VACUUM CUPS PIAB

SG1-TPE Vacuum Cup with 1 Bellow (complete) TPE





ADVANTAGES

- V1 - different degrees of hardness of lip
- and support make the suction cup stable and
- soft and flexible at the same time
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - with support ribs

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: Thermoplastic elastomers TPE
- Colour lip: blue 50 Shore, green 60 Shore
- Shore hardness: 50 or 60 Shore A
- Temperature resistance: -20°C to +60°C,
- up to 100°C for short periods
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs:
- green lip 60 Shore: -
- blue lip 50 Shore: ***
- Area of application:
- green lip 60 Shore: for relatively flat
- surfaces made of non-porous material, is
- oil-resistant, silicone/PWIS free and impression-free
- blue lip 50 Shore: for uneven and rough
- surfaces (e.g. structured plastic articles),
- FDA approved material therefore suitable for
- the food industry

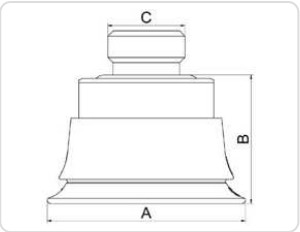
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG1-25-TPE-50-18	1-57-10-02-00-SG1	25	16	G1/8	50	blau	2,0	8,5N	17,0N	TPE	0.007Kg
SG1-25-TPE-60-18	1-57-10-04-00-SG1	25	16	G1/8	60	grün	1,8	9,0N	17,9N	TPE	0.007Kg
SG1-50-TPE-50-14	1-57-10-10-00-SG1	50	20,7	G1/4	50	blau	4,0	35,9N	71,8N	TPE	0.002Kg
SG1-50-TPE-60-14	1-57-10-12-00-SG1	50	20,7	G1/4	60	grün	3,7	36,8N	73,6N	TPE	0.002Kg
SG1-70-TPE-60-14	1-57-10-16-00-SG1	70	23,8	G1/4	60	grün	5,1	36,8N	73,6N	TPE	0.004Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG1-TPE-F Vacuum Cup with 1 Bellow (complete) TPE flex





ADVANTAGES

- V1 - different degrees of hardness of lip
- and support make the suction cup stable and
- soft and flexible at the same time
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - with support ribs

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: Thermoplastic elastomers TPE
- Colour lip: blue 50 Shore, yellow 30 Shore
- Shore hardness: 30 or 50 Shore A
- Temperature resistance:
- -20°C to +60°C, briefly up to 100°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs:
- yellow lip 30 Shore: ***
- blue lip 50 Shore: ***
- Area of application:
- yellow lip 30 Shore: suitable for leaky (textured, grained) surfaces and porous materials (e.g. corrugated cardboard) as well as flat or slightly curved objects. The lip has an extra high sealing capacity
- blue lip 50 Shore: suitable for leaky (textured, grained) surfaces and porous materials (e.g. corrugated cardboard) as well as flat or slightly curved objects

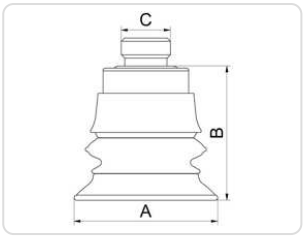
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG1-28-TPE-50-F-18	1-57-10-18-00-SG1	28	16	G1/8	50	blau	2,6	10,7N	21,3N	TPE	0.007Kg
SG1-28-TPE-30-F-18	1-57-10-20-00-SG1	28	16	G1/8	30	gelb	2,7	9,5N	18,9N	TPE	0.007Kg
SG1-55-TPE-50-F-14	1-57-10-26-00-SG1	55	21,7	G1/4	50	blau	5,3	40,5N	81,1N	TPE	0.025Kg
SG1-55-TPE-30-F-14	1-57-10-28-00-SG1	55	21,7	G1/4	30	gelb	5,4	37,5N	75,0N	TPE	0.026Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG2-TPE Vacuum Cup with 2 Bellows (complete) TPE





ADVANTAGES

- V1 - different degrees of hardness of lip and support make
- the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: Thermoplastic elastomers TPE
- Colour lip: blue 50 Shore, green 60 Shore
- Shore hardness: 50 or 60 Shore A
- Temperature resistance: -20°C to +60°C,
- short-term up to 100°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs:
- green lip 60 Shore: -
- blue lip 50 Shore: ***
- Area of application:
- green lip 60 Shore: for relatively flat
- surfaces made from non-porous material, is
- oil-resistant, silicone/PWIS-free and impression-free
- blue lip 50 Shore: for uneven and rough
- surfaces (e.g. structured plastic items),
- FDA approved material therefore suitable for
- the food industry

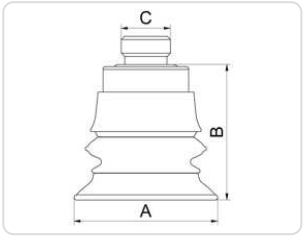
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG2-25-TPE-50-18	1-57-10-34-00-SG2	25	23,7	G1/8	50	blau	5,1	8,5N	17,0N	TPE	0.008Kg
SG2-25-TPE-60-18	1-57-10-36-00-SG2	25	23,7	G1/8	60	grün	4,9	9,0N	17,9N	TPE	0.008Kg
SG2-50-TPE-50-14	1-57-10-42-00-SG2	50	36,3	G1/4	50	blau	10,2	35,9N	71,8N	TPE	0.031Kg
SG2-50-TPE-60-14	1-57-10-44-00-SG2	50	36,3	G1/4	60	grün	9,9	36,8N	73,6N	TPE	0.031Kg
SG2-70-TPE-60-14	1-57-10-46-00-SG2	70	39,6	G1/4	60	grün	13,8	74N	148N	TPE	0.061Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG2-TPE-F Vacuum Cup with 2 Bellows (complete) TPEflex





ADVANTAGES

- V1 - different degrees of hardness of lip and support make the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

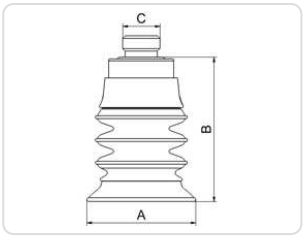
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG2-28-TPE-30-F-18	1-57-10-50-00-SG2	28	24,2	G1/8	30	gelb	5,8	9,5N	18,9N	TPE	0.008Kg
SG2-28-TPE-50-F-18	1-57-10-52-00-SG2	28	24,2	G1/8	50	blau	5,7	10,7N	21,3N	TPE	0.008Kg
SG2-55-TPE-30-F-14	1-57-10-58-00-SG2	55	37,3	G1/4	30	gelb	11,6	37,5N	75,0N	TPE	0.012Kg
SG2-55-TPE-50-F-14	1-57-10-60-00-SG2	55	37,3	G1/4	50	blau	11,5	40,5N	81,1N	TPE	0.033Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG4-TPE Vacuum Cup with 4 Bellows (complete) TPE





ADVANTAGES

- V1 - different degrees of hardness of lip and support make
- the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: Thermoplastic elastomers TPE
- Colour lip: blue 50 Shore, green 60 Shore
- Shore hardness: 50 or 60 Shore A
- Temperature resistance: -20°C to +60°C, briefly up to 100°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs:
- green lip 60 Shore: -
- blue lip 50 Shore: ***
- Area of application:
- green lip 60 Shore: for relatively even surfaces made of non-porous material, is oil-resistant, silicone/PWIS-free and non-marking
- blue lip 50 Shore: for uneven and rough surfaces
- (e.g. structured plastic articles), FDA approved material,
- therefore suitable for the food industry

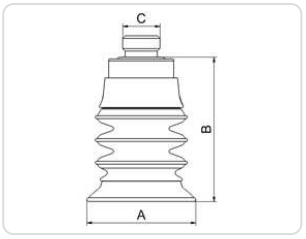
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG4-25-TPE-50-18	1-57-10-66-00-SG4	25	34,8	G1/8	50	blau	13,7	8,5N	17,0N	TPE	0.009Kg
SG4-25-TPE-60-18	1-57-10-68-00-SG4	25	34,8	G1/8	60	grün	13,5	9,0N	17,9N	TPE	0.009Kg
SG4-50-TPE-50-14	1-57-10-74-00-SG4	50	58,4	G1/4	50	blau	27,4	35,9N	71,8N	TPE	0.004Kg
SG4-50-TPE-60-14	1-57-10-76-00-SG4	50	58,4	G1/4	60	grün	27,1	35,9N	71,8N	TPE	0.004Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG4-TPE-F Vacuum Cup with 4 Bellows (complete) TPEflex





ADVANTAGES

- V1 - different degrees of hardness of lip and support make the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

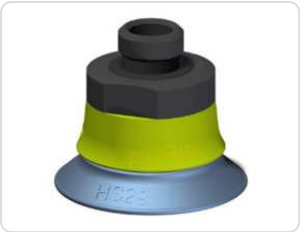
- Material: Thermoplastic elastomers TPE
- Colour lip: blue 50 Shore, yellow 30 Shore
- Shore hardness: 30 or 50 Shore A
- Temperature resistance:
- -20°C to +60°C, briefly up to 100°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs:
- Yellow lip 30 Shore: ***
- Blue lip 50 Shore: ***
- Area of application:
- Yellow lip 30 Shore: suitable for leaky (textured, grained)
- surfaces and porous materials (e.g. corrugated cardboard) as well as
- flat or slightly curved objects. The lip has an
- extra high sealing capacity
- Blue lip 50 Shore: suitable for leaky (textured, grained)
- surfaces and porous materials (e.g. corrugated cardboard) as well as
- flat or slightly curved objects

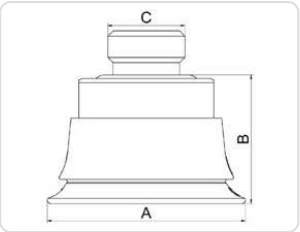
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG4-28-TPE-30-F-18	1-57-10-82-00-SG4	28	35,3	G1/8	30	gelb	14,4	9,5N	18,9N	TPE	0.009Kg
SG4-28-TPE-50-F-18	1-57-10-84-00-SG4	28	35,3	G1/8	50	blau	14,3	10,7N	21,3N	TPE	0.009Kg
SG4-55-TPE-30-F-14	1-57-10-90-00-SG4	55	59,4	G1/4	30	gelb	28,8	37,5N	75,0N	TPE	0.04Kg
SG4-55-TPE-50-F-14	1-57-10-92-00-SG4	55	59,4	G1/4	50	blau	28,7	40,5N	81,1N	TPE	0.039Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Holding force vertical at vacuum -0.6bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG1-HNBR Vacuum Cup with 1 Bellow (complete) HNBR





ADVANTAGES

- V1 - different degrees of hardness of lip and support make
- the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - Flexible lip made of impression- and silicone-free material
- V5 - Flexible lip with high load and temperature resistance
- V6 - Support ribs prevent the deformation of thin and
- sensitive objects

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

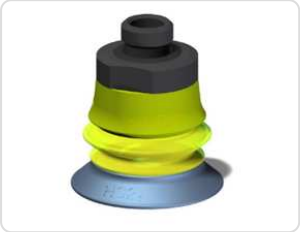
- Material: high-performance elastomer HNBR
- Colour lip: blue 50 Shore
- Shore hardness: 50 Shore A
- Temperature resistance:
- -30°C to +120°C, briefly up to 150°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: ***
- Area of application:
- -for handling hot, curved and lightly
- textured surfaces
- -for handling where silicone is not permitted

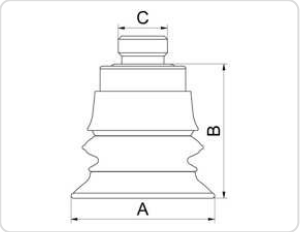
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG1-29-HNBR-50-18	1-57-12-02-00-SG1	29	18,40	G1/8	50	blau	2,3	19,8N	23,3N	HNBR	0.008Kg
SG1-58-HNBR-50-14	1-57-12-06-00-SG1	58	19,5	G1/4	50	blau	4,9	80,3N	94,5N	HNBR	0.029Kg
SG1-80-HNBR-50-12	1-57-12-08-00-SG1	80	24,3	G1/2	50	blau	6,4	151N	178N	HNBR	0.059Kg

Legend: D = Lip hardness °Shore A K = lip colour L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG2-HNBR Vacuum Cup with 2 Bellows (complete) HNBR





ADVANTAGES

- V1 - different degrees of hardness of lip and support make
- the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - Flexible lip made of impression- and silicone-free material
- V5 - Flexible lip with high load and temperature resistance

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

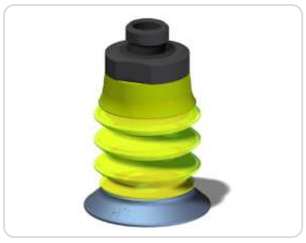
- Material: High-performance elastomer HNBR
- Colour lip: blue 50 Shore
- Shore hardness: 50 Shore A
- Temperature resistance:
- -30°C to +120°C, briefly up to 150°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: ***
- Area of application:
- -for handling hot, curved and slightly textured
- surfaces
- -for handling where silicone is not permitted

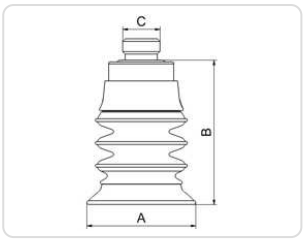
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG2-29-HNBR-50-18	1-57-12-12-00-SG2	29	26,2	G1/8	50	blau	5,4	19,8N	23,3N	HNBR	0.009Kg
SG2-58-HNBR-50-14	1-57-12-16-00-SG2	58	41,1	G1/4	50	blau	11,1	80,3N	94,5N	HNBR	0.037Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG4-HNBR Vacuum Cup with 4 Bellows (complete) HNBR





ADVANTAGES

- V1 - different degrees of hardness of lip and support
- make the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - Flexible lip made of impression- and silicone-free material
- V5 - Flexible lip with high load and temperature resistance

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: High-performance elastomer HNBR
- Colour lip: blue 50 Shore
- Shore hardness: 50 Shore A
- Temperature resistance:
- -30°C to +120°C, briefly up to 150°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: ***
- Area of application:
- -for handling hot, curved and slightly
- structured surfaces
- -for handling where silicone is not permitted

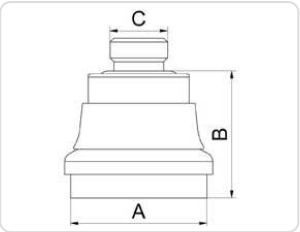
DESIGNATION	ITEM NO.	A	B	C	D	K	L	M	N	O	WEIGHT
SG4-29-HNBR-50-18	1-57-12-22-00-SG4	29	37,3	G1/8	50	blau	14,0	19,8N	23,3N	HNBR	0.009Kg
SG4-58-HNBR-50-14	1-57-12-26-00-SG4	58	63,2	G1/4	50	blau	28,3	80,3N	94,5N	HNBR	0.043Kg
SG4-80-HNBR-50-14	1-57-12-28-00-SG4	80	83,1	G1/4	50	blau	39,2	151,1N	177,8N	HNBR	0.925Kg

Legend: D = Lip hardness °Shore A K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG1-SCH Vacuum Cup with 1 Bellow (complete) Foam





ADVANTAGES

- V1 - different degrees of hardness of lip and support make
- the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - fixed foam lips for objects that are
- difficult to grip with conventional suction pads
- V5 - Foam lips seal very well
- V6 - Replacement for mechanical grippers
- V7 - Support ribs prevent the deformation of thin and
- sensitive objects

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: solid natural rubber NR
- Colour lip: orange
- Support
- Shore hardness: 80 Shore A
- Temperature resistance:
- 10°C to +80°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs: -
- Area of application:
- suitable when conventional lips do not seal sufficiently
- for uneven objects with a very rough surface such as raw wood or
- structured perspex

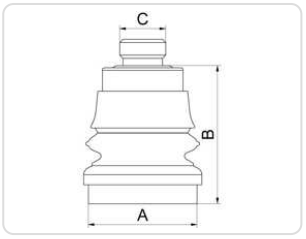
DESIGNATION	ITEM NO.	A	B	C	K	L	M	N	O	WEIGHT
SG1-25-SCH-18	1-57-12-32-00-SG1	25,5	21	G1/8	orange	2,8	1,9N	3,8N	NR	0.009Kg
SG1-50-SCH-14	1-57-12-36-00-SG1	51	27,1	G1/4	orange	5,6	1,9N	3,8N	NR	0.027Kg

Legend: K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG2-SCH Vacuum Cup with 2 Bellows (complete) Foam





ADVANTAGES

- V1 - different degrees of hardness of lip and support make
- the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - fixed foam lips for objects that are difficult to grip with conventional
- suction cups
- V5 - Foam lips seal very well
- V6 - Replacement for mechanical grippers

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: solid natural rubber NR
- Colour lip: orange
- Support
- Shore hardness: 80 Shore A
- Temperature resistance:
- 10°C to +80°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs: -
- Area of application:
- suitable when conventional lips do not seal sufficiently
- for uneven objects with a very rough surface such as raw wood
- or textured perspex

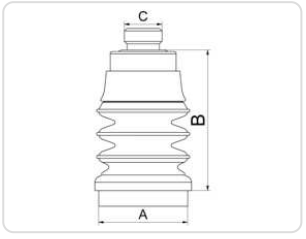
DESIGNATION	ITEM NO.	A	B	C	K	L	M	N	O	WEIGHT
SG2-25-SCH-18	1-57-12-42-00-SG2	25,5	28,8	G1/8	orange	6,9	1,9N	3,8N	NR	0.01Kg
SG2-50-SCH-14	1-57-12-46-00-SG2	51	42,7	G1/4	orange	11,8	8,0N	16,0N	NR	0.035Kg

Legend: K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG4-SCH Vacuum Cup with 4 Bellows (complete) Foam





ADVANTAGES

- V1 - different degrees of hardness of lip and support make the suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - firm foam lips for objects that are difficult to grip with conventional suction pads
- V5 - Foam lips seal very well
- V6 - Replacement for mechanical grippers

REMARK

PIAB article number can be recoded using the search function in the AGS customer portal

INFO

- Material: solid natural rubber NR
- Colour lip: orange
- Support
- Shore hardness: 80 Shore A
- Temperature resistance:
- 10°C to +80°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with foodstuffs: -
- Area of application:
- suitable when conventional lips do not seal sufficiently
- for uneven objects with a very rough surface such as raw wood or
- textured perspex

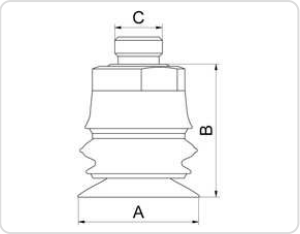
DESIGNATION	ITEM NO.	A	B	C	K	L	M	N	O	WEIGHT
SG4-25-SCH-18	1-57-12-52-00-SG4	25,5	39,9	G1/8	orange	15,5	1,9N	3,8N	NR	0.011Kg
SG4-50-SCH-14	1-57-12-56-00-SG4	51	64,8	G1/4	orange	29	8,0N	16,0N	NR	0.041Kg

Legend: K = Colour lip L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG2-BLI Vacuum Cup with 2 Bellows (complete) Bag lip





ADVANTAGES

- V1 - different degrees of hardness of lip and support make the
- suction cup stable and at the same time soft and flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - exceptionally good grip on bags
- V5 - Assembly is carried out using a special clamping ring: lip and
- bellows are very stably connected to each other, yet the
- lip can be easily replaced

REMARK

- For optimum performance and durability, please use
- a vacuum level of approx. -0.4 bar

INFO

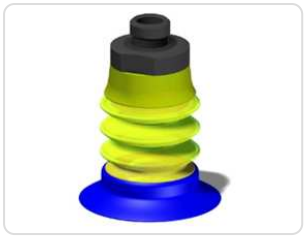
- Material: silicone SI
- Colour lip: blue
- Shore hardness: 50 Shore A
- Temperature resistance lip:
- -40°C to +200°C
- Temperature resistance fastening/ bellows:
- -40°C/-20°C to +106°C/+60°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with food:*
- Lip/ fastening: ***
- Bellows: -
- Area of application:
- Can be used for height levelling and for separating
- thin objects
- suitable for plastic bags and stand-up pouches filled with food
- or liquids

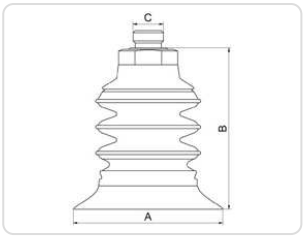
DESIGNATION	ITEM NO.	A	B	C	D	I	J	K	L	M	N	O	WEIGHT
SG2-25-BLI-50-S-18	1-57-12-72-00-SG2	25	27,7	G1/8	50	blau	4,2	2,6N	3,7N	5,1N	7,4N	SI	0.008Kg
SG2-48-BLI-50-S-14	1-57-12-76-00-SG2	48	36,9	G1/4	50	blau	5,8	11,1N	16,2N	22,2N	32,4N	SI	0.024Kg

Legend: D = Lip hardness °Shore A I = Colour lip J= Suction pad stroke K = Horizontal holding force at vacuum -0.4 bar L = Horizontal holding force at vacuum -0.6 bar M = Vertical holding force at vacuum -0.4 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG4-BLI Vacuum Cup with 4 Bellows (complete) Bag lip





ADVANTAGES

- V1 - different degrees of hardness of lip and support
- make the suction cup stable and at the same time soft and
- flexible
- V2 - hard-wearing and durable material
- V3 - high lifting force
- V4 - exceptionally good grip on bags
- V5 - Assembly is carried out using a special clamping ring:
- The lip and bellows are connected to each other in a very stable manner,
- Nevertheless, the lip can be easily replaced

REMARK

- For optimum performance and durability
- please use a vacuum level of
- approx. -0.4 bar

INFO

- Material: silicone SI
- Colour lip: blue
- Shore hardness: 50 Shore A
- Temperature resistance lip:
- -40°C to +200°C
- Temperature resistance fastening/ bellows:
- -40°C/-20°C to +106°C/+60°C
- Flexibility: ***
- Wear resistance: **
- Resistance to oil: -
- Compatibility with food:*
- Lip/ attachment: ***
- Bellows: -
- Field of application:
- Can be used for height levelling and for separating
- thin objects, suitable for plastic bags and
- stand-up pouches that are filled with food or
- liquids

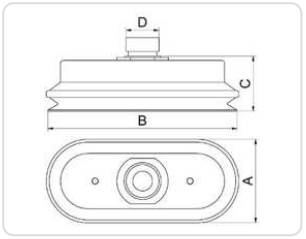
DESIGNATION	ITEM NO.	A	B	C	D	I	J	K	L	M	N	O	WEIGHT
SG4-25-BLI-50-18	1-57-12-82-00-SG4	25	38,8	G1/8	50	blau	12,8	2,6N	3,7N	5,1N	7,4N	SI	0.026Kg
SG4-48-BLI-50-14	1-57-12-86-00-SG4	48	52,4	G1/4	50	blau	17,8	11,1N	16,2N	22,2N	32,4N	SI	0.026Kg

Legend: D = Lip hardness °Shore A I = Colour lip J= Suction pad stroke K = Horizontal holding force at vacuum -0.4 bar L = Horizontal holding force at vacuum -0.6 bar M = Vertical holding force at vacuum -0.4 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Lip material

57.0 - VACUUM CUPS PIAB

SG0-2-DF Vacuum Cup oval (complete) Duraflex





ADVANTAGES

- V1 - PU30°/60°: The bellows and the lip have different degrees of hardness.
- This makes them strong and stable as well as soft and flexible
- V2 - DURAFLEX® suction pads are made from a specially developed
- polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V3 - Stroke movements can be used to separate thin parts
- V4 - silicone and impression-free
- V5 - Objects with level differences can be handled
- V6 - excellent sealing properties

INFO

- Material: Duraflex (DF) specially developed polyurethane
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:

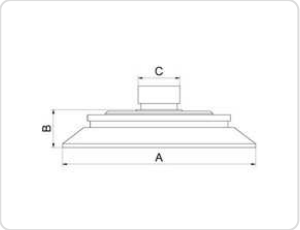
DESIGNATION	ITEM NO.	A	B	C	D	J	K	L	M	N	O	WEIGHT
SG0-2-24-64-DF-60-60-18	1-57-14-02-00-SG0	24	64	18	G1/8	60	60	4,5	37N	34N	DF	0.01Kg
SG0-2-42-97-DF-30-60-38	1-57-14-04-00-SG0	42	97	27	G3/8	30	60	10,5	73N	119N	DF	0.055Kg
SG0-2-59-149-DF-30-60-38	1-57-14-06-00-SG0	59	149	35	G3/8	30	60	11,3	260N	235N	DF	0.129Kg
SG0-2-76-181-DF-30-60-38	1-57-14-08-00-SG0	76	181	42	G3/8	30	60	16	379N	335N	DF	0.241Kg

Legend: J = Hardness yellow lip °Shore A K = Degree of hardness green bellows °Shore A L = Suction pad stroke M = Horizontal holding force with vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-2-DF Vacuum Cup with 1 Bellow (complete) Duraflex





ADVANTAGES

- V1 - PU30°/60°: The bellows and the lip have different degrees of hardness.
- This makes them strong and stable as well as soft and flexible
- V2 - DURAFLEX® suction pads are made from a specially developed
- polyurethane. This material combines the elasticity of
- rubber with the holding power
- of plastic
- V3 - silicone and impression-free
- V4 - excellent sealing properties
- V5 - with support ribs

INFO

- Material: Duraflex (DF) specially developed polyurethane
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat workpieces with smooth to rough surfaces:
- Plastic parts, wood, glass, corrugated cardboard, cardboard, tiles
- Recommended for horizontal displacement of the holding force to the
- workpiece surface

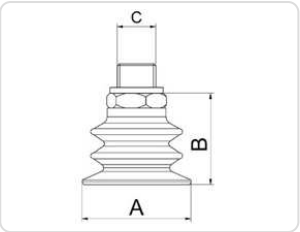
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-77-DF-30-60-38	1-57-14-22-00-SG1	77	14,5	G3/8	30	60	2	176N	193N	DF	0.053Kg
SG1-115-DF-30-60-38	1-57-14-24-00-SG1	115	20,5	G3/8	30	60	4	441N	432N	DF	0.133Kg

Legend: J = degree of hardness yellow lip °Shore A K = degree of hardness green bellows °Shore A L = suction pad stroke M = horizontal holding force with vacuum -0.6 bar N = vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = material

57.0 - VACUUM CUPS PIAB

SG3-DF Vacuum Cup 3 Bellows (complete) Duraflex





ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness. This makes them strong and stable as well as soft and flexible:
- Body 60 Shore / Suction lip 30 Shore
- V2 - DURAFLEX® suction pads are made from a specially developed
- polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V3 - silicone and impression-free
- V4 - excellent sealing properties
- V5 - Optional filter disc can be inserted into the suction pad
- for heavy contamination

REMARK

- Suction pad SG3-75-DF-30-60-38-I Adapter has internal thread

INFO

- Material: Duraflex (DF) specially developed polyurethane
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat workpieces with smooth to coarse surfaces: plastic parts,
- wood, glass, corrugated cardboard, cardboard, tiles
- recommended for horizontal
- displacement of the holding force
- to the workpiece surface

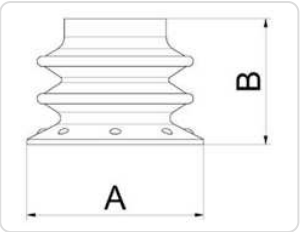
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG3-10-DF-30-60-5	1-55-35-06-00-SG3	10	22	M5	30	60	4	ASG-150-5	2,5N	DF	0.02Kg
SG3-15-DF-30-60-5	1-55-35-08-00-SG3	15	25	M5	30	60	7	ASG-150-5	3,5N	DF	0.005Kg
SG3-21-DF-30-60-18	1-55-35-09-00-SG3	21	21,5	G1/8	30	60	6,5	ASG-154-18	7N	DF	0.004Kg
SG3-25-DF-30-60-18	1-55-35-10-00-SG3	25	25	G1/8	30	60	8	ASG-154-18	9N	DF	0.006Kg
SG3-35-DF-30-60-18	1-55-35-11-00-SG3	35	33	G1/8	30	60	12	ASG-156-18	15N	DF	0.015Kg
SG3-35-DF-30-60-14	1-55-35-12-00-SG3	35	33	G1/4	30	60	12	ASG-158-14	15N	DF	0.015Kg
SG3-52-DF-14	1-55-35-14-00-SG3	52	46	G1/4	30	60	16	ASG-160-14	40N	DF	0.034Kg
SG3-75-DF-60-30-14	1-55-35-16-00-SG3	75	73	G1/4	30	60	20		83N	DF	0.104Kg
SG3-75-DF-30-60-38	1-55-35-17-00-SG3	75	51,7	G3/8	30	60	26		110N	DF	0.104Kg
SG3-114-DF-30-60-38	1-55-35-18-00-SG3	114	74	G3/8	30	60	39		300N	DF	0.104Kg
SG3-75-DF-30-60-38-I	1-55-35-37-00-SG3	75	51,7	G3/8	30	60	26		110N	DF	0.104Kg

Legend: J = degree of hardness yellow lip °Shore A K = degree of hardness green bellows °Shore A L = suction pad stroke M = ASG adapter N = vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = material

57.0 - VACUUM CUPS PIAB

GN3-DF Vacuum Cup 3 Bellows Duraflex





ADVANTAGES

- V1 - the bellows and the lip have different degrees of hardness.
- This makes them strong and stable as well as soft and flexible:
- Body 60 Shore / suction lip 30 Shore
- V2 - DURAFLEX® suction cups are made from a specially developed
- polyurethane. This material combines the elasticity of rubber
- with the holding power
- of plastic
- V3 - silicone and impression-free
- V4 - excellent sealing properties
- V5 - Optional filter disc can be inserted into the suction pad
- for heavy soiling

INFO

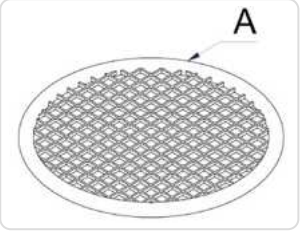
- Material: Duraflex (DF) specially developed polyurethane
- Shore hardness: lip 30 °Shore A, bellows 60 °Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat workpieces with smooth to rough surfaces:
- Plastic parts, wood, glass, corrugated cardboard, cardboard, tiles
- Recommended for horizontal displacement of the holding force to the
- workpiece surface

DESIGNATION	ITEM NO.	A	B	J	K	M	N	O	WEIGHT
GN3-10-DF	1-55-35-06-02-GN3	10	18	30	60	4	2,5N	DF	0.001Kg
GN3-15-DF	1-55-35-08-02-GN3	15	20	30	60	7	3,5N	DF	
GN3-25-DF Vacuum Cup 2 Bellow	1-55-35-09-02-GN3	21	15	30	60	7,5	7N	DF	
GN3-25-DF Vacuum Cup 2 Bellow	1-55-35-10-02-GN3	25	25	30	60	8	9N	DF	
GN3-35-DF	1-55-35-11-02-GN3	35	33	30	60	12	15N	DF	0.008Kg
GN3-52-DF	1-55-35-14-02-GN3	52	46	30	60	16	40N	DF	0.034Kg

Legend: J = Hardness yellow lip °Shore A K = Degree of hardness green bellows °Shore A M = Suction pad stroke N = Holding force vertical at vacuum -0.6bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

FIS-SG3 Filter Disc



ADVANTAGES

- V1 - Can be used with suction pad SG3 Duraflex
- V2 - Contamination cannot get into the vacuum system

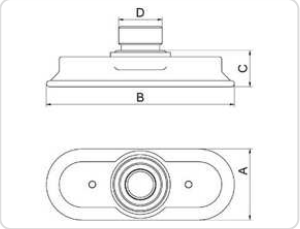
DESIGNATION	ITEM NO.	A	WEIGHT
FIS-SG3-25-DF	1-55-35-10-04-FIS	SG3-25-DF	0.001Kg
FIS-SG3-35-DF	1-55-35-12-04-FIS	SG3-35-DF	0.001Kg
FIS-SG3-52-DF	1-55-35-14-04-FIS	SG3-52-DF	0.001Kg
FIS-SG3-75-DF	1-55-35-16-04-FIS	SG3-75-DF	0.002Kg

Legend: A = suitable for suction pads ...

57.0 - VACUUM CUPS PIAB

SG0-PU Vacuum Cup Oval (complete) PU





ADVANTAGES

- V1 - DURAFLEX® suction pads are manufactured with single hardening
- made from a specially developed polyurethane.
- This material combines the elasticity of rubber with
- the holding power of plastic
- V2 - Good stability and little movement
- V3 - silicone and impression-free
- V4 -Internal bars largely prevent deformation of thin, sensitive materials
- and generate additional friction when the lifting force
- is directed parallel
- V5 - excellent sealing properties
- V6 - particularly wear-resistant and durable

INFO

- Material: PU specially developed polyurethane (Duraflex DF)
- with single hardness
- Shore hardness:
- 50 °Shore A blue suction cup
- 40°Shore A red suction cup
- Temperature resistance: 10°C to +50°C
- Flexibility:
- 50 °Shore blue suction cup: **
- 40°Shore red suction cup: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for height levelling: as for embossed or
- corrugated metal sheets
- or for smooth surfaces on objects such as plastic parts,
- furniture parts, glass

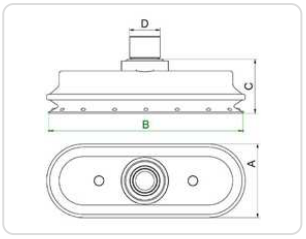
DESIGNATION	ITEM NO.	A	B	C	D	J	K	L	M	N	O	WEIGHT
SG0-11-31-PU-50-5	1-57-16-02-00-SG0	11	31	9,6	M5	blau	50	1,0	11N	12N	PU	
SG0-15-45-PU-50-18	1-57-16-04-00-SG0	15	45	10,5	G1/8	blau	50	1,0	27N	20N	PU	0.008Kg
SG0-27-72-PU-40-38	1-57-16-10-00-SG0	27	72	13,2	G3/8	rot	40	1,9	66N	90N	PU	0.008Kg
SG0-43-113-PU-40-38	1-57-16-12-00-SG0	43	113	17,5	G3/8	rot	40	3,1	230N	203N	PU	0.048Kg
SG0-59-154-PU-40-38	1-57-16-14-00-SG0	59	154	21	G3/8	rot	40	3	350N	366N	PU	0.11Kg
SG0-75-180-PU-40-38	1-57-16-16-00-SG0	75	180	25	G3/8	rot	40	5,7	440N	530N	PU	0.19Kg

Legend: J = Suction pad colour K = Degree of hardness of lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG0-2-PU Vacuum Cup Oval (complete) PU





ADVANTAGES

- V1 - DURAFLEX® suction cups are manufactured with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - Good stability and little movement
- V3 - silicone and impression-free
- V4 - Stroke movements can be used to separate thin parts
- V5 - excellent sealing properties
- V6 - particularly wear-resistant and durable

INFO

- Material: PU specially developed polyurethane (Duraflex DF) with single hardness
- Shore hardness: 60 °Shore A green suction cup
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for height levelling: as for embossed or corrugated sheets
- or for smooth surfaces on objects such as plastic parts,
- furniture parts, glass

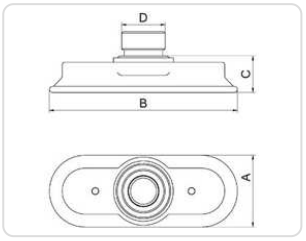
DESIGNATION	ITEM NO.	A	B	C	D	J	K	L	M	N	O	WEIGHT
SG0-2-24-64-PU-60-18	1-57-16-24-00-SG0	24	64	17,2	G1/8	grün	60	4,5	37N	34N	PU	0.011Kg

Legend: J = Suction pad colour K = Degree of hardness of lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG0-BL-PU Vacuum Cup Oval (complete) Sheet Metal PU





ADVANTAGES

- V1 - DURAFLEX® suction cups are manufactured with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - Thanks to the very good "grip" on oily surfaces, the frictional resistance of the BL suction pad is up to 2-4 times higher than that of comparable "conventional" suction cups
- V3 - best choice for more than 0.1 g/m² (press) oil on the sheet surface
- V4 - silicone and impression-free
- V5 - Normal wear of the BL suction pads does not impair the frictional resistance of the suction pad
- V6 - excellent sealing properties
- V7 - particularly wear-resistant and durable
- V8 - Good stability and little movement

INFO

- Material: PU specially developed polyurethane (Duraflex DF)
- with single hardness
- Shore hardness:
- 55°Shore A suction cup orange, support core 60°Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- BL suction cups were specially developed for oily surfaces such as sheet metal in
- forming technology
- The oval BL design is suitable for elongated objects with
- curved and smooth surfaces. For body parts, which we
- find for example in the automotive industry

DESIGNATION	ITEM NO.	A	B	C	D	J	K	L	M	N	O	WEIGHT
SG0-BL-24-84-PU-55-38	1-57-16-30-00-SG0	24	84	17	G3/8	orange	55	3	35N	82N	PU	0.024Kg

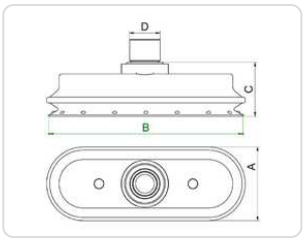
DESIGNATION	ITEM NO.	A	B	C	D	J	K	L	M	N	O	WEIGHT
SG0-BL-33-93-PU-55-38	1-57-16-32-00-SG0	33	93	16,5	G3/8	orange	55	4	51N	115N	PU	0.024Kg
SG0-BL-43-113-PU-55-38	1-57-16-34-00-SG0	43	113	22,5	G3/8	orange	55	5	54N	185N	PU	0.055Kg

Legend: J = Suction pad colour K = Degree of hardness of lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar (oily sheet metal) N = Vertical holding force at vacuum -0.6 bar (oily sheet metal) Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG0-2-BL-PU Vacuum Cup Oval 2 Bellows (complete) Sheet Metal PU





ADVANTAGES

- V1 - DURAFLEX® suction cups are manufactured with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - Thanks to the very good "grip" on oily surfaces, the frictional resistance of the BL suction cup is up to 2-4 times higher than with comparable "conventional" suction cups
- V3 - best choice for more than 0.1 g/m² (press) oil on the sheet surface
- V4 - silicone- and impression-free
- V5 - Normal wear of the BL suction cups does not impair the frictional resistance of the suction cup
- V6 - excellent sealing properties
- V7 - particularly wear-resistant and durable
- V8 - Good stability and little inherent movement

INFO

- Material: PU specially developed polyurethane (Duraflex DF)
- with single hardness
- Shore hardness:
- 55°Shore A suction cup orange, support core 60°Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- BL suction cups were specially developed for oily surfaces such as sheet metal in
- forming technology
- The oval BL design is suitable for elongated objects with curved and
- smooth surfaces. For car body parts, for example, which we find in the
- automotive industry

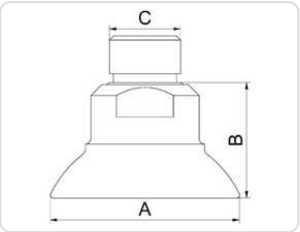
DESIGNATION	ITEM NO.	A	B	C	D	J	K	L	M	N	O	WEIGHT
SG0-2-BL-50-105-PU-55-38	1-57-16-40-00-SG0	50	105	29	G3/8	orange	55	11	105N	108N	PU	0.097Kg
SG0-2-BL-67-157-PU-55-38	1-57-16-42-00-SG0	67	157	37	G3/8	orange	55	13	271N	246N	PU	0.19Kg
SG0-2-BL-82-187-PU-55-38	1-57-16-44-00-SG0	82	187	44	G3/8	orange	55	15	538N	403N	PU	0.31Kg

Legend: J = Suction pad colour K = Degree of hardness of lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar (oily sheet metal) N = Vertical holding force at vacuum -0.6 bar (oily sheet metal) Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-PU Vacuum Cup 1 Bellow (complete) PU





ADVANTAGES

- V1 - DURAFLEX® suction pads are manufactured with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - Thanks to the high friction of the rubber material, the suction pads can withstand high forces due to rapid acceleration in horizontal directions
- V3 - silicone and impression-free
- V4 - Internal webs largely prevent deformation of thin, sensitive materials

REMARK

- SG1-150-PU-40-38-I Version with internal thread

INFO

- Material: PU specially developed polyurethane (Duraflex DF) with
- single hardness
- Shore hardness:
- 50 °Shore A blue suction cup
- 40°Shore A red suction cup
- Temperature resistance: 10°C to +50°C
- Flexibility:
- 50 °Shore blue suction cup: **
- 40°Shore red suction cup: ***
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for small products with a slightly curved and
- flat, oily surface, such as sheet steel

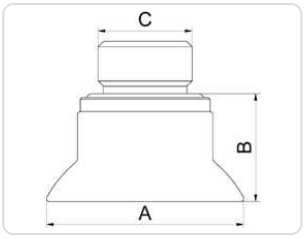
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-22-PU-50-18	1-57-16-52-00-SG1	22	14,4	G1/8	blau	50	1,9	9N	12N	PU	0.003Kg
SG1-29-PU-50-18	1-57-16-54-00-SG1	29	16	G1/8	blau	50	4,0	12N	20N	PU	0.005Kg
SG1-35-PU-50-14	1-57-16-56-00-SG1	35	21	G1/4	blau	50	5,5	51N	36N	PU	0.008Kg
SG1-50-PU-40-38	1-57-16-58-00-SG1	50	23,5	G3/8	rot	40	5	82N	77N	PU	0.031Kg
SG1-75-PU-40-38	1-57-16-60-00-SG1	75	23,5	G3/8	rot	40	6,5	200N	157N	PU	0.048Kg
SG1-100-PU-40-38	1-57-16-62-00-SG1	100	28,5	G3/8	rot	40	10,2	318N	284N	PU	0.048Kg
SG1-150-PU-40-38-I	1-57-16-64-00-SG1	150	28,5	G3/8	rot	40	10,2	318N	284N	PU	0.048Kg

Legend: J = Suction pad colour K = Degree of hardness lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-BL-PU Vacuum Cup 1 Bellow (complete) Sheet Metal PU





ADVANTAGES

- V1 - DURAFLEX® suction pads are manufactured with single hardening from a specially developed polyurethane. This material combines the elasticity of rubber with the holding power of plastic
- V2 - Thanks to the very good "grip" on oily surfaces, the friction resistance of the BL suction pad with high lateral forces is up to 2-4 times higher than with comparable "conventional" suction pads
- V3 - best choice for more than 0.1 g/m² (press) oil on the sheet surface
- V4 - silicone and impression-free
- V5 - Normal wear of the BL suction pads does not impair the friction resistance of the suction pad in the long term
- V6 - Support ribs prevent the deformation of thin and sensitive objects

INFO

- Material: PU specially developed polyurethane (Duraflex DF) with single hardness
- Shore hardness:
- 55°Shore A suction cup orange, support core 60°Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- BL suction cups were specially developed for oily surfaces such as sheet metal in
- forming technology
- The design is made for slightly curved and flat surfaces,
- e.g. for handling applications such as sheet steel handling in
- press lines

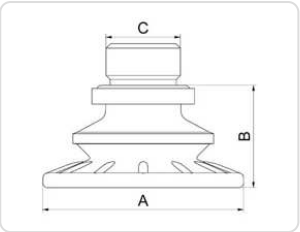
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-BL-35-PU-55-38	1-57-16-70-00-SG1	35	19	G3/8	orange	55	2	26N	34N	PU	0.042Kg
SG1-BL-50-PU-55-38	1-57-16-72-00-SG1	50	31	G3/8	orange	55	3	52N	72N	PU	0.067Kg
SG1-BL-75-PU-55-38	1-57-16-74-00-SG1	75	22	G3/8	orange	55	4	104N	163N	PU	0.091Kg
SG1-BL-100-PU-55-38	1-57-16-76-00-SG1	100	26	G3/8	orange	55	6	139N	236N	PU	0.171Kg
SG1-BL-125-PU-55-38	1-57-16-78-00-SG1	125	32	G3/8	orange	55	8	194N	405N	PU	0.28Kg

Legend: J = Suction pad colour K = Degree of hardness lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar (oily sheet metal) N = Vertical holding force at vacuum -0.6 bar (oily sheet metal) Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG2-BL-PU Vacuum Cup 2 Bellows (complete) Sheet Metal PU





ADVANTAGES

- V1 - DURAFLEX® suction pads are manufactured with single hardening from a
- specially developed polyurethane. This material combines
- the elasticity of rubber with the holding power of plastic
- V2 - Thanks to the very good "grip" on oily surfaces, the
- friction resistance of the BL suction pad to high lateral forces is up to
- 2-4 times higher than with comparable "conventional" suction cups
- V3 - best choice for more than 0.1 g/m² (press) oil on the
- sheet surface
- V4 - silicone and impression-free
- V5 - Normal wear of the BL suction pads does not impair
- the frictional resistance of the suction pad in the long term
- V6 - The flat internal support provides the necessary stability
- during movement in any orientation

INFO

- Material: PU specially developed polyurethane (Duraflex DF)
- with single hardness
- Shore hardness:
- 55°Shore A suction cup orange,
- Support core 60°Shore A
- Temperature resistance: 10°C to +50°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: ***
- Compatibility with foodstuffs: -
- Area of application:
- BL suction cups were specially developed for oily surfaces such as sheet metal in
- forming technology
- The design is made for uneven/curved surfaces, e.g. for
- handling applications such as sheet steel handling in press lines

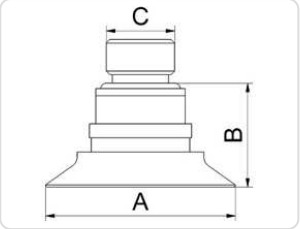
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG2-BL-45-PU-55-38	1-57-16-80-00-SG2	45	22	G3/8	orange	55	7	35N	45N	PU	0.034Kg
SG2-BL-61-PU-55-38	1-57-16-82-00-SG2	61	26	G3/8	orange	55	10	76N	82N	PU	0.061Kg
SG2-BL-85-PU-55-38	1-57-16-84-00-SG2	85	37	G3/8	orange	55	14	110N	174N	PU	0.141Kg
SG2-BL-115-PU-55-38	1-57-16-86-00-SG2	115	53	G3/8	orange	55	21	235N	284N	PU	0.275Kg

Legend: J = Suction pad colour K = Degree of hardness of lip and bellows °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar (oily sheet metal) N = Vertical holding force at vacuum -0.6 bar (oily sheet metal) Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-S Vacuum Cup 1 Bellow (complete) Silicone





ADVANTAGES

- V1 - The suction cup has good stability and very little
- movement play
- V2 - Internal webs largely prevent deformation of
- thin, sensitive materials and generate additional friction,
- when the lifting force is parallel
- V3 - Nubs prevent the object from being sucked into the suction cup
- and thus deformation
- V4 - hard-wearing food-grade silicone material
- (FDA approved)
- V5 - soft and flexible
- V6 - large temperature application range
- V7 - good adhesion to non-smooth surfaces, e.g. parts of
- foodstuffs
- V8 - Options with detectable silicone material and conductive /
- antistatic silicone
- V9 - Adapter has integrated filter screen (except M5)

INFO

- Shore hardness:
- 50°Shore A suction cup red
- Temperature resistance: -40°C to +200°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: -
- Compatibility with foodstuffs: ***
- Area of application:
- Suitable for flat objects such as cardboard, sheet metal, glass and
- porous materials
- Recommended when the lifting force is parallel to the surface of the
- object, as the nubs increase friction

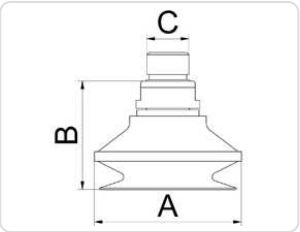
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-16-S-50-5	1-57-18-02-00-SG1	15,7	11	M5	rot	50	1	6,5N	8,5N	SI	0.005Kg
SG1-22-S-50-18	1-57-18-04-00-SG1	22	13	G1/8	rot	50	1,5	8N	14,5N	SI	0.005Kg
SG1-27-S-50-18	1-57-18-06-00-SG1	27	14	G1/8	rot	50	1,5	9N	19,5N	SI	0.007Kg
SG1-32-S-50-18	1-57-18-08-00-SG1	32	15,4	G1/8	rot	50	2,0	16N	25N	SI	0.007Kg
SG1-42-S-50-14	1-57-18-10-00-SG1	42	19	G1/4	rot	50	2,5	25N	40N	SI	0.016Kg
SG1-53-S-50-14	1-57-18-12-00-SG1	53	23,5	G1/4	rot	50	3,0	40N	74N	SI	0.019Kg
SG1-77-S-50-38-I	1-57-18-14-00-SG1	77	26	G3/8	rot	50	3,0	110N	200N	SI	0.029Kg
SG1-112-S-50-38-I	1-57-18-16-00-SG1	112	36,2	G3/8	rot	50	4,0	250N	420N	SI	0.071Kg
SG1-152-S-50-12-I	1-57-18-18-00-SG1	152	40,4	G1/2	rot	50	6,0	600N	850N	SI	0.205Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG2-S Vacuum Cup 2 Bellows (complete) Silicone





ADVANTAGES

- V1 - The suction cup has good stability and very little movement play
- V2 - Nubs prevent the object from being sucked into the suction cup
- and thus deformation
- V3 - hard-wearing silicone material in food quality
- (FDA approved)
- V4 - soft and flexible
- V5 - large temperature application range
- V6 - good adhesion on non-smooth surfaces, e.g. parts of
- foodstuffs
- V7 - Options with detectable silicone material and conductive /
- antistatic silicone
- V8 - Adapter has integrated filter screen (except M5)

REMARK

- Sizes SG2-83-S-50-38-I, SG2-124-S-50-38-I and
- SG2-166-S-50-12-I Adapter only with internal thread

INFO

- Material: SI silicone
- Shore hardness:
- 50°Shore A suction cup red
- Temperature resistance: -40°C to +200°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: -
- Compatibility with foodstuffs: ***
- Area of application:
- Suitable for flat objects such as cardboard, sheet metal, glass and
- porous materials
- Recommended when the lifting force is parallel to the surface of the
- object, as the nubs increase friction

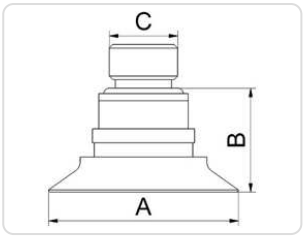
DESIGNATION	ITEM NO.	A	B	C	J	K	L	N	O	WEIGHT
SG2-6-S-50-5	1-57-18-30-00-SG2	5,6	12,7	M5	rot	50	1,5	0,8N	SI	0.006Kg
SG2-10-S-50-5	1-57-18-32-00-SG2	8,8	15,4	M5	rot	50	3,5	1,6N	SI	0.016Kg
SG2-12-S-50-5	1-57-18-34-00-SG2	12	21,4	M5	rot	50	4,5	3,4N	SI	0.006Kg
SG2-18-S-50-5	1-57-18-36-00-SG2	17,5	24,8	M5	rot	50	6,5	8,0N	SI	0.007Kg
SG2-24-S-50-18	1-57-18-38-00-SG2	24	24	G1/8	rot	50	10	9,8N	SI	0.009Kg
SG2-36-S-50-14	1-57-18-40-00-SG2	36	32	G1/4	rot	50	15	22N	SI	0.012Kg
SG2-46-S-50-14	1-57-18-42-00-SG2	46	34	G1/4	rot	50	12	39N	SI	0.015Kg
SG2-58-S-50-14	1-57-18-44-00-SG2	58	41,3	G1/4	rot	50	19	65N	SI	0.025Kg
SG2-83-S-50-38-I	1-57-18-48-00-SG2	83	50,3	G3/8	rot	50	24	167N	SI	0.04Kg
SG2-124-S-50-38-I	1-57-18-50-00-SG2	124	70,6	G3/8	rot	50	35	343N	SI	0.125Kg
SG2-166-S-50-12-I	1-57-18-52-00-SG2	188	85,3	G1/2	rot	50	45	686N	SI	0.27Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-C Vacuum Cup 1 Bellow (complete) Chloroprene





ADVANTAGES

- V1 - The suction cup has good stability and little
- movement
- V2 - Internal webs largely prevent deformation
- of thin, sensitive materials and generate additional
- friction when the lifting force is parallel
- V3 - Oil, petrol and ozone resistant material
- V4 - The nubs prevent the object from being sucked into the
- suction cup and thus deformation. The suction cup has good
- stability and very little movement
- V5 - Adapter has integrated filter screen (except M5)

INFO

- Material: CR chloroprene
- Shore hardness:
- 50°Shore A suction cup black
- Temperature resistance: -40°C to +110°C
- Flexibility: *
- Wear resistance: ***
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat objects such as cardboard, sheet metal, glass and
- porous materials
- also suitable if the lifting force is directed parallel to the surface
- as the nubs increase friction

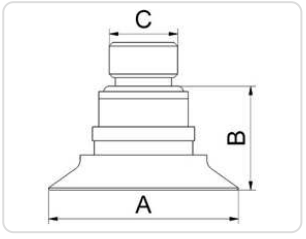
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-16-C-50-5	1-57-20-02-00-SG1	15,7	16	M5	schwarz	50	1	6,5N	8,5N	CR	
SG1-22-C-50-18	1-57-20-04-00-SG1	22	13	G1/8	schwarz	50	1,5	8,0N	14,5N	CR	0.006Kg
SG1-27-C-50-18	1-57-20-06-00-SG1	27	14	G1/8	schwarz	50	1,5	9,0N	19,5N	CR	0.068Kg
SG1-32-C-50-18	1-57-20-08-00-SG1	32	15,4	G1/8	schwarz	50	2	16N	25N	CR	

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-N Vacuum Cup 1 Bellow (complete) Nitrile





ADVANTAGES

- V1 - The suction cup has good stability and little
- movement
- V2 - Internal ribs largely prevent
- deformation
- of thin, sensitive materials and generate additional
- friction when the lifting force is parallel
- V3 - Oil, petrol and ozone resistant material
- V4 - The nubs prevent the object from being sucked into the
- suction cup and thus prevent deformation. The suction cup has good
- stability and very little movement
- V5 - Adapter has integrated filter screen (except M5)

INFO

- Material: N Nitrile-PVC
- Shore hardness:
- 50°Shore A suction cup black
- Temperature resistance: 0°C to +90°C
- Flexibility: *
- Wear resistance: ***
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat objects such as cardboard, sheet metal, glass and
- porous materials
- also suitable when the lifting force is parallel to the surface,
- as the nubs increase friction

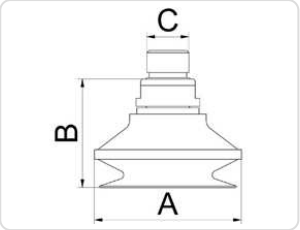
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-42-N-50-14	1-57-20-12-00-SG1	42	19	G1/4	schwarz	50	2,5	25N	40N	N	0.011Kg
SG1-53-N-50-14	1-57-20-14-00-SG1	53	23,5	G1/4	schwarz	50	3	40N	74N	N	0.019Kg
SG1-77-N-50-38-I	1-57-20-16-00-SG1	77	26	G3/8	schwarz	50	3	110N	200N	N	0.028Kg
SG1-112-N-50-38-I	1-57-20-18-00-SG1	112	36,2	G3/8	schwarz	50	4	250N	420N	N	0.071Kg
SG1-152-N-50-12-I	1-57-20-20-00-SG1	152	40,5	G1/2	schwarz	50	6	600N	850N	N	0.205Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG2-C Vacuum Cup 2 Bellows (complete) Chloroprene





ADVANTAGES

- V1 - The suction cup has good stability and little movement play
- V2 - Oil, petrol and ozone resistant material
- V3 - Adapter has integrated filter screen (except M5)

INFO

- Material: CR chloroprene
- Shore hardness:
- 50°Shore A suction cup black
- Temperature resistance: -40°C to +110°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat surfaces and for height levelling
- In order to achieve precision and a safe lift, only lighter
- objects should be handled when the lifting force is directed parallel to the
- surface

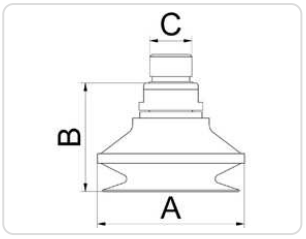
DESIGNATION	ITEM NO.	A	B	C	J	K	L	N	O	WEIGHT
SG2-6-C-50-5	1-57-20-30-00-SG2	6,2	12,7	M5	schwarz	50	1,5	0,8N	CR	0.005Kg
SG2-10-C-50-5	1-57-20-32-00-SG2	9,6	15,4	M5	schwarz	50	3,5	1,6N	CR	0.005Kg
SG2-12-C-60-5	1-57-20-34-00-SG2	12	21,4	M5	schwarz	50	4,5	3,4N	CR	0.006Kg
SG2-18-C-60-5	1-57-20-36-00-SG2	17,5	24,8	M5	schwarz	50	6,5	5,9N	CR	0.007Kg
SG2-24-C-60-18	1-57-20-38-00-SG2	24	24	G1/8	schwarz	50	10	9,8N	CR	0.008Kg
GN2-24-C-60	1-57-20-38-02-GN2									
SG2-36-C-60-14	1-57-20-40-00-SG2	36	32	G1/4	schwarz	50	15	22N	CR	0.012Kg
SG2-46-C-60-14	1-57-20-42-00-SG2	46	34	G1/4	schwarz	50	12	39N	CR	0.015Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG2-N Vacuum Cup 2 Bellows (complete) Nitrile





ADVANTAGES

- V1 - The suction cup has good stability and little movement play
- V2 - Oil, petrol and ozone resistant material
- V3 - Adapter has integrated filter screen (except M5)

INFO

- Material: N Nitrile-PVC
- Shore hardness:
- 50°Shore A Suction cup black
- Temperature resistance: 0°C to +90°C
- Flexibility: *
- Wear resistance: ***
- Resistance to oil: **
- Compatibility with foodstuffs: -
- Area of application:
- Suitable for flat surfaces and for height levelling
- To achieve precision and a safe lift, only lighter objects should be handled when the lifting force is parallel to the surface

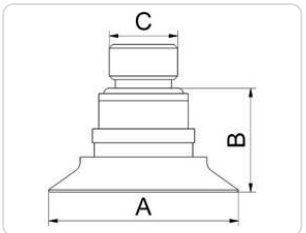
DESIGNATION	ITEM NO.	A	B	C	J	K	L	O	WEIGHT
SG2-58-N-50-14	1-57-20-44-00-SG2	58	41,3	G1/4	schwarz	50	19	65N	0.025Kg
SG2-83-N-50-38-I	1-57-20-46-00-SG2	83	50,3	G3/8	schwarz	50	24	167N	0.04Kg
SG2-124-N-50-38-I	1-57-20-48-00-SG2	124	70,6	G3/8	schwarz	50	35	343N	0.125Kg
SG2-166-N-50-12-I	1-57-20-50-00-SG2	166	85,3	G1/2	schwarz	50	45	686N	0.27Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-S Vacuum Cup 1 Bellow (complete) Silicone FDA





ADVANTAGES

- V1 - The material used is food-safe silicone.
- It is free from colour pigments, FDA approved
- (FDA 21 CFR 177.2600.) and fulfils the EU regulation EU 935/2004
- (FDA approved)
- V2 - Internal ribs largely prevent deformation
- of thin, sensitive materials and
- generate additional friction when the lifting force is parallel
- V3 - Nubs prevent the object from being sucked into the
- suction cup and thus deformation
- V4 - The suction cup has good stability and little movement play
- V5 - soft and flexible
- V6 - wide temperature application range
- V7 - good adhesion to non-smooth surfaces, e.g. parts of
- foodstuffs
- V8 - Options with conductive / antistatic silicone
- V9 - Adapter has integrated filter screen (except M5)

INFO

- Material: SI-FDA silicone FDA approved
- Shore hardness:
- 50°Shore A suction cup transparent
- Temperature resistance: -40°C to +200°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: -
- Compatibility with foodstuffs: ***
- Area of application:
- Suitable for flat surfaces
- Used in the food industry and in the pharmaceutical industry:
- Silicone material fulfils FDA 21 CFR 177.2600

DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-16-S-FDA-50-5	1-57-20-56-00-SG1	15,7	16	M5	transp.	50	1	6,5N	8,5N	SI-FDA	0.006Kg
SG1-22-S-FDA-50-18	1-57-20-58-00-SG1	22	13	G1/8	transp.	50	1,5	8,0N	14,5N	SI-FDA	0.006Kg

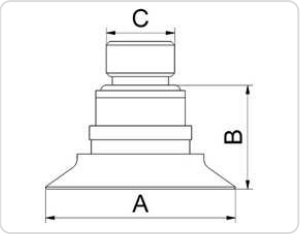
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-27-S-FDA-50-18	1-57-20-60-00-SG1	27	14	G1/8	transp.	50	1,5	9N	19,5N	SI-FDA	0.007Kg
SG1-32-S-FDA-50-18	1-57-20-62-00-SG1	32	15,4	G1/8	transp.	50	2	16N	25N	SI-FDA	0.005Kg
SG1-42-S-FDA-50-14	1-57-20-64-00-SG1	42	19	G1/4	transp.	50	2,5	25N	40N	SI-FDA	0.011Kg
SG1-53-S-FDA-50-14	1-57-20-68-00-SG1	53	23,5	G1/4	transp.	50	3	40N	74N	SI-FDA	0.019Kg
SG1-77-S-FDA-50-38-I	1-57-20-70-00-SG1	77	26	G3/8	transp.	50	3	110N	200N	SI-FDA	0.028Kg
SG1-112-S-FDA-50-38-I	1-57-20-72-00-SG1	112	36,2	G3/8	transp.	50	4	250N	420N	SI-FDA	0.071Kg
SG1-152-S-FDA-50-12-I	1-57-20-74-00-SG1	152	40,4	G1/2	transp.	50	6	600N	850N	SI-FDA	0.205Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-S-FDA-U Vacuum Cup 1 Bellow (complete) Silicone FDA universal





ADVANTAGES

- V1 - The material used is food-safe silicone.
- It is free from colour pigments and approved by the FDA
- (FDA 21 CFR 177.2600.) and fulfils the EU regulation
- EU 935/2004.(FDA approved)
- V2 - soft and flexible (without support ribs)
- V3 - wide temperature application range
- V4 - Availability from very small sizes
- V5 - Adapter has integrated filter screen (except M5)
- V6 - universal use

INFO

- Material: S-FDA univ. silicone FDA approved
- Shore hardness:
- 50°Shore A suction cup transparent
- Temperature resistance: -40°C to +200°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: -
- Compatibility with foodstuffs: ***
- Area of application:
- Suitable for flat or slightly curved surfaces
- Also suitable for concave workpieces
- Used in the food industry and in the pharmaceutical industry
- Silicone material fulfils FDA 21 CFR 177.2600

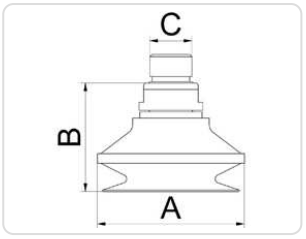
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-5-S-FDA-50-U-5	1-57-24-12-00-SG1	5	10,1	M5	transp.	50	0,2	0,8N	0,9N	S-FDA	0.005Kg
SG1-7-S-FDA-50-U-5	1-57-24-14-00-SG1	7	11	M5	transp.	50	0,3	1,5N	1,7N	S-FDA	0.005Kg
SG1-9-S-FDA-50-U-5	1-57-24-16-00-SG1	9	11	M5	transp.	50	0,5	2,9N	2,9N	S-FDA	0.005Kg
SG1-11-S-FDA-50-U-5	1-57-24-18-00-SG1	11	15,5	M5	transp.	50	0,5	4,4N	4,4N	S-FDA	0.006Kg
SG1-17-S-FDA-50-U-5	1-57-24-20-00-SG1	16,5	16,5	M5	transp.	50	1,5	5,4N	8,4N	S-FDA	0.006Kg
SG1-22-S-FDA-50-U-18	1-57-24-22-00-SG1	22	12,5	G1/8	transp.	50	2,5	8,8N	12N	S-FDA	0.006Kg
SG1-32-S-FDA-50-U-18	1-57-24-24-00-SG1	32	14,5	G1/8	transp.	50	3,5	9,8N	25N	S-FDA	0.007Kg
SG1-41-S-FDA-50-U-14	1-57-24-26-00-SG1	41	19	G1/4	transp.	50	4,5	22N	39N	S-FDA	0.009Kg
SG1-51-S-FDA-50-U-14	1-57-24-28-00-SG1	51,40	23,50	G1/4	transp.	50	6	37N	73N	S-FDA	0.005Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Holding force vertical at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG2-S-FDA Vacuum Cup 2 Bellows (complete) Silicone FDA





ADVANTAGES

- V1 - The material used is food-safe silicone.
- It is free from colour pigments, approved by the FDA
- (FDA 21 CFR 177.2600.) and fulfils the EU regulation
- EU 935/2004.(FDA approved)
- V2 - Nubs prevent the object from being sucked into the
- suction cup and thus deformation
- V3 - The suction cup has good stability and little movement play
- V4 - soft and flexible
- V5 - large temperature application range
- V6 - good adhesion to non-smooth surfaces, e.g. parts of
- foodstuffs
- V7 - Options with conductive / antistatic silicone
- V8 - Adapter has integrated filter screen (except M5)

INFO

- Material: SI-FDA silicone FDA approved
- Shore hardness:
- 50°Shore A suction cup transparent
- Temperature resistance: -40°C to +200°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: -
- Compatibility with foodstuffs: ***
- Area of application:
- Suitable for flat surfaces
- Used in the food industry and in the pharmaceutical industry:
- Silicone material fulfils FDA 21 CFR 177.2600

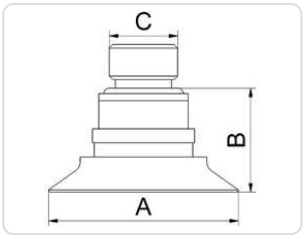
DESIGNATION	ITEM NO.	A	B	C	J	K	L	N	O	WEIGHT	M
SG2-6-S-FDA-50-5	1-57-20-76-00-SG2	6,2	12,7	M5	transp.	50	1,5	0,8N	SI-FDA	0.005Kg	
SG2-10-S-FDA-50-5	1-57-20-78-00-SG2	9,6	15,4	M5	transp.	50	3,5	1,6N	SI-FDA	0.005Kg	
SG2-12-S-FDA-50-5	1-57-20-80-00-SG2	12	21,4	M5	transp.	50	4,5	3,4N	SI-FDA	0.006Kg	
SG2-18-S-FDA-50-5v	1-57-20-82-00-SG2	17,5	24,8	M5	transp.	50	6,5	5,9N	SI-FDA	0.007Kg	
SG2-24-S-FDA-50-18	1-57-20-84-00-SG2	24	24	G1/8	transp.	50	10	9,8N	SI-FDA	0.008Kg	
SG2-36-S-FDA-50-14	1-57-20-86-00-SG2	36	32	G1/4	transp.	50	15	22N	SI-FDA	0.001Kg	
SG2-46-S-FDA-50-14	1-57-20-88-00-SG2	46	34	G1/4	transp.	50	12	39N	SI-FDA	0.015Kg	
SG2-58-S-FDA-50-14	1-57-20-90-00-SG2	58	41,3	G1/4	transp.	50	19	N	SI-FDA	0.025Kg	N
SG2-83-S-FDA-50-38-I	1-57-20-92-00-SG2	83	50,3	G3/8	transp.	50	24	167N	SI-FDA	0.04Kg	
SG2-124-S-FDA-50-38-I	1-57-20-94-00-SG2	124	70,6	G3/8	transp.	50	35	343N	SI-FDA	0.125Kg	
SG2-166-S-FDA-50-12-I	1-57-20-96-00-SG2	166	85,3	G1/2	transp.	50	45	686N	SI-FDA	0.27Kg	

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Holding force vertical at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-S-U Vacuum Cup 1 Bellow (complete) Silicone universal





ADVANTAGES

- V1 - soft and flexible (without support ribs)
- V2 -large temperature application range
- V3 - Availability from very small sizes
- V4 - Adapter has integrated filter screen (except M5)
- V5 - universal use

INFO

- Material: S-univ. silicone universal
- Shore hardness:
- 50°Shore A Suction cup red
- Temperature resistance: -40°C to +200°C
- Flexibility: ***
- Wear resistance: ***
- Resistance to oil: -
- Compatibility with foodstuffs: ***
- Area of application:
- Suitable for flat or slightly curved surfaces
- Also for concave workpieces

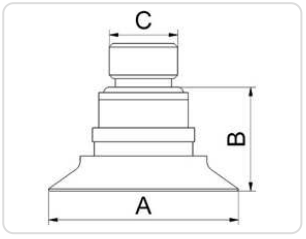
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-5-S-50-U-5	1-57-18-66-00-SG1	5	10,1	M5	rot	50	0,2	0,8N	0,9N	S-univ.	0.005Kg
SG1-7-S-50-U-5	1-57-18-68-00-SG1	7	11	M5	rot	50	0,3	1,5N	1,7N	S-univ.	0.005Kg
SG1-9-S-50-U-5	1-57-18-70-00-SG1	9	11	M5	rot	50	0,5	2,9N	2,9N	S-univ.	0.005Kg
SG1-11-S-50-U-5	1-57-18-72-00-SG1	11	15,5	M5	rot	50	0,65	4,4N	4,4N	S-univ.	0.005Kg
SG1-17-S-50-U-5	1-57-18-74-00-SG1	16,5	16,5	M5	rot	50	1,5	5,4N	8,4N	S-univ.	0.005Kg
SG1-22-S-50-U-18	1-57-18-78-00-SG1	22	12,5	G1/8	rot	50	2,5	8,8N	12N	S-univ.	0.005Kg
SG1-32-S-50-U-18	1-57-18-80-00-SG1	32	14,5	G1/8	rot	50	3,5	9,8N	25N	S-univ.	0.007Kg
SG1-41-S-50-U-14	1-57-18-82-00-SG1	41	19	G1/4	rot	50	4,5	22N	39N	S-univ.	0.009Kg
SG1-51-S-50-U-14	1-57-18-84-00-SG1	51,4	23,5	G1/4	rot	50	6	37N	73N	S-univ.	0.015Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-C-U Vacuum cup 1 Bellow (complete) Chloroprene universal





ADVANTAGES

- V1 - soft and flexible (without support ribs)
- V2 - wide temperature application range
- V3 - Availability from very small sizes
- V4 - Adapter has integrated filter screen (except M5)
- V5 - universal use
- V6 - Oil, petrol and ozone resistant material

INFO

- Material: CR chloroprene universal
- Shore hardness:
- 50°Shore A suction cup black
- Temperature resistance: -40°C to +110°C
- Flexibility: *
- Wear resistance: ***
- Resistance to oil: **
- Compatibility with food: -
- Area of application:
- Suitable for flat or slightly curved surfaces
- also suitable for concave workpieces
- conventional suction cup material for general purposes

DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-7-C-50-U-5	1-57-22-12-00-SG1	7	11	M5	schwarz	50	0,3	1,5N	1,7N	C-univ.	0.005Kg
SG1-9-C-50-U-5	1-57-22-14-00-SG1	9	11	M5	schwarz	50	0,5	2,9N	2,9N	C-univ.	0.005Kg
SG1-11-C-50-U-5	1-57-22-16-00-SG1	11	15,5	M5	schwarz	50	0,5	4,4N	4,4N	C-univ.	0.006Kg

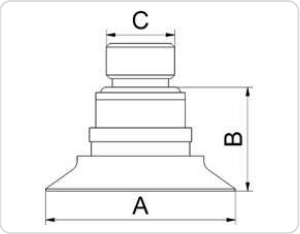
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-17-C-50-U-5	1-57-22-18-00-SG1	16,5	16,5	M5	schwarz	50	1,5	5,4N	8,4N	C-univ.	0.006Kg
SG1-5-C-50-U-5	1-57-22-20-00-SG1	22	12,5	G1/8	schwarz	50	2,5	8,8N	12N	C-univ.	0.005Kg

Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

57.0 - VACUUM CUPS PIAB

SG1-N-U Vacuum Cup 1 Bellow (complete) Nitrile universal





ADVANTAGES

- V1 - soft and flexible (without support ribs)
- V2 - Availability from very small sizes
- V3 - Adapter has integrated filter screen (except M5)
- V4 - universal use
- V5 - Oil, petrol and ozone resistant material

INFO

- Material: N Nitrile-PVC universal
- Shore hardness:
- 50°Shore A suction cup black
- Temperature resistance: 0°C to +90°C
- Flexibility: **
- Wear resistance: ***
- Resistance to oil: **
- Compatibility with food: -
- Area of application:
- Suitable for flat or slightly curved surfaces
- also suitable for concave workpieces
- conventional suction cup material for general purposes

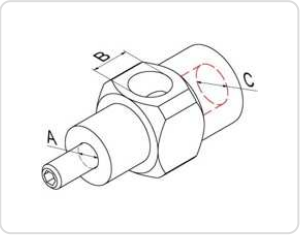
DESIGNATION	ITEM NO.	A	B	C	J	K	L	M	N	O	WEIGHT
SG1-32-N-50-U-18	1-57-22-22-00-SG1	32	14,5	G1/8	schwarz	50	3,5	9,8N	25N	N-PVC	0.007Kg
SG1-41-N-50-U-14	1-57-22-24-00-SG1	41	19	G1/4	schwarz	50	4,5	22N	39N	N-PVC	0.009Kg
SG1-51-N-50-U-14	1-57-22-26-00-SG1	51,4	23,5	G1/4	schwarz	50	6	37N	73N	N-PVC	0.015Kg

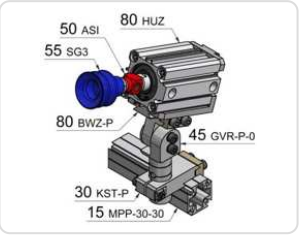
Legend: J = Suction pad colour K = Bellows hardness °Shore A L = Suction pad stroke M = Horizontal holding force at vacuum -0.6 bar N = Vertical holding force at vacuum -0.6 bar Holding force 10N = 1kg O = Material

50.0 - ADAPTER FOR VACUUM CUPS

ASI Adapter for Vacuum Cup Inner Thread







ADVANTAGES

- V1 - Adapter suction pad attachment can be screwed directly into the piston rod of the cylinder

REMARK

- Material aluminium
- For adapters with M5 thread, we recommend our
- PDR-5-PVC sealing rings made of polyvinyl chloride.
- Scope of delivery:
- Adapter and lock washer

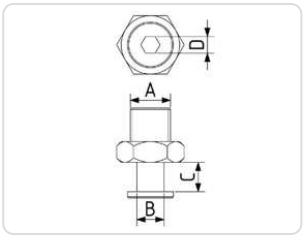
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
ASI-3-5-5	1-50-10-02-00-ASI	M3	M5	M5	0.01Kg	HUZ-12
ASI-M5-M5-M5	1-50-10-04-00-ASI	M5	M5	M5	0.003Kg	HUZ-20
ASI-5-18-5	1-50-10-06-00-ASI	M5	M5	G1/8	0.005Kg	HUZ-20
ASI-5-18-18	1-50-10-07-00-ASI	M5	G1/8	G1/8	0.005Kg	HUZ-20
ASI-8-18-18	1-50-10-08-00-ASI	M8	G1/8	G1/8	0.01Kg	HUZ-32
ASI-8-5-5	1-50-10-09-00-ASI	M8	M5	M5	0.01Kg	HUZ-32
ASI-8-14-18	1-50-10-10-00-ASI	M8	G1/8	G1/4	0.013Kg	HUZ-32

Legend: X = suitable for ... Lifting cylinder HUZ-.....

50.0 - ADAPTER FOR VACUUM CUPS

ASG Adapter for Vacuum Cup





ADVANTAGES

- V1 - extremely light (aluminium material)
- V2 - All adapters with hexagon socket except for
- SG0-2-4 and SGO-3,5-7
- V3 - Quick assembly
- V4 - for mounting with ring spanner or hexagon spanner

REMARK

- Material aluminium
- Adapter with internal thread on request
- For adapters with M5 thread, we recommend our
- PDR-5-PVC sealing rings made of polyvinyl chloride.

OPTION

- Adapter with female thread on request

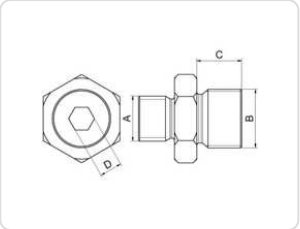
DESIGNATION	ITEM NO.	A	B	C	D	SW	WEIGHT
ASG-10-5	1-50-00-10-00-ASG	M5	2	1,5	--	---	0.001Kg
ASG-12-5	1-50-00-12-00-ASG	M5	5	2	2	2	0.001Kg
ASG-13-5	1-50-00-13-00-ASG	M5	6	2	2	---	0.002Kg
ASG-14-18	1-50-00-14-00-ASG	G1/8	6	2	3	3	0.004Kg
ASG-16-14	1-50-00-16-00-ASG	G1/4	12	--	5	5	0.01Kg
ASG-18-18	1-50-00-18-00-ASG	G1/8	12	--	4	4	0.007Kg
ASG-40-5	1-50-00-30-00-ASG	M5	2	1,5	--	---	
ASG-41-18	1-50-00-32-00-ASG	G1/8	2	1,5	--	---	0.004Kg
ASG-42-5	1-50-00-34-00-ASG	M5	4	2	2	2	0.001Kg
ASG-44-5	1-50-00-36-00-ASG	M5	5	2,5	2	2	
ASG-45-5	1-50-00-37-00-ASG	M5	5	4,5	2	2	
ASG-46-18	1-50-00-38-00-ASG	G1/8	5	4,5	3	3	0.004Kg
ASG-47-5	1-50-00-39-00-ASG	M5	6,5	7	2	3	0.003Kg
ASG-48-18	1-50-00-40-00-ASG	G1/8	6,5	7	4	4	0.004Kg
ASG-49-5	1-50-00-41-00-ASG	M5	6,5	7	2	2	0.003Kg
ASG-50-18	1-50-00-42-00-ASG	G1/8	8,5	7	5	5	0.004Kg
ASG-51-18	1-50-00-43-00-ASG	G1/8	8,2	10	5	5	0.006Kg
ASG-54-5	1-50-00-46-00-ASG	M5	5,8	4	2	2	0.001Kg
ASG-55-18	1-50-00-48-00-ASG	G1/8	5,8	3,9	3	3	0.004Kg
ASG-58-18	1-50-00-50-00-ASG	G1/8	8,5	12	5	2	0.005Kg
ASG-59-18	1-50-00-51-00-ASG	G1/8	9,5	6,8	5	2	0.005Kg
ASG-60-14	1-50-00-52-00-ASG	G1/4	12,6	19	6	6	0.02Kg
ASG-62-14	1-50-00-54-00-ASG	G1/4	8,5	12	5	5	0.007Kg
ASG-70-18	1-50-00-60-00-ASG	G1/8	4	2	2	2	0.004Kg
ASG-80-14	1-50-00-68-00-ASG	G1/4	8,5	7	5	5	0.006Kg
ASG-80-14	1-50-00-72-00-ASG	G1/8	8,5	12,8	5	5	0.006Kg
ASG-150-5	1-50-02-20-02-ASG	M5	4	3	2		0.008Kg
ASG-150-5	1-50-02-20-04-ASG	G1/8	4	3	2		0.008Kg
ASG-154-18	1-50-02-20-06-ASG	G1/8	6	4,7	3		0.004Kg
ASG-156-18	1-50-02-20-08-ASG	G1/8	7,5	4,2	4		0.006Kg
ASG-158-14	1-50-02-20-10-ASG	G1/4	7,5	4,2	4		0.007Kg
ASG-122-14	1-50-02-20-12-ASG	G1/4	11,5	5,2	4		0.014Kg
ASG-202-18-LC	1-50-90-22-00-ASG	G1/8	8,5	4,5	3		0.005Kg
ASG-203-18-LC	1-50-90-23-00-ASG	G1/8	7,5	5	3		0.01Kg
ASG-204-14-LC	1-50-90-24-00-ASG	G1/4	7,5	5	4		0.01Kg
ASG-204-14-LC	1-50-90-25-00-ASG	G1/4	11,5	5,2	4		0.12Kg

DESIGNATION	ITEM NO.	A	B	C	D	SW	WEIGHT
ASG-206-38-LC	1-50-90-26-00-ASG	G3/8	11,5	5,2	5		0.018Kg
ASG-207-18-LC	1-50-90-27-00-ASG	G1/8	11,5	5,2	3		0.12Kg

50.0 - ADAPTER FOR VACUUM CUPS

ASG-BG Adapter for Vacuum Cups with thread on both sides





ADVANTAGES

- V1 - extremely light (aluminium material)
- V2 - All adapters with hexagon socket except SG0-2-4 and SGO-3.5-7
- V3 - Quick assembly
- V4 - for mounting with ring spanner or hexagon spanner

REMARK

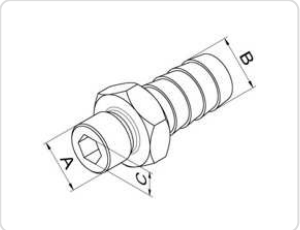
- Material Aluminium

DESIGNATION	ITEM NO.	A	B	C	D	SW	WEIGHT
ASG-52-14-BG	1-50-00-44-00-ASG	G1/4	M10×1,25	8	5	5	0.01Kg
ASG-53-14-BG	1-50-00-45-00-ASG	G1/4	G1/4	10	5	5	0.01Kg

50.0 - ADAPTER FOR VACUUM CUPS

ASG-X Adapter for Vacuum Cup universal





ADVANTAGES

- V1 - extremely light (aluminium material)
- V2 - All adapters have a hexagon socket
- V3 - Quick assembly
- V4 - for mounting with ring spanner or hexagon spanner

REMARK

- Material Aluminium
- Adapter with internal thread on request
- For adapters with M5 thread, we recommend our
- PDR-5-PVC sealing rings made of polyvinyl chloride.

DESIGNATION	ITEM NO.	A	B	C	SW	WEIGHT
ASG-120-18	1-50-02-10-00-ASG	G1/8	10	5	5	0.005Kg
ASG-122-14	1-50-02-12-00-ASG	G1/4	10	5	5	0.007Kg

55.1 - VACUUM CUPS ACCESORIES

ABS-SG Support for Vacuum Cups





REMARK

- This component is used for stabilisation
- Clamping on the hexagon of the suction pad adapter
- Other sizes on request
- Scope of delivery:
- incl. fastening material

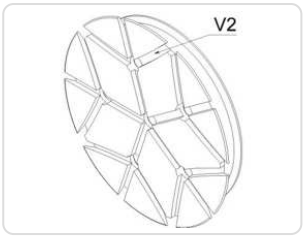
DESIGNATION	ITEM NO.	A	B	X
ABS-SG3-25-18	1-80-66-50-00-ABS	35	31	SG3-25-18
ASG-SG3-32-18	1-80-66-52-00-ABS	43	33	SG3-32-18

Legend: X = suitable for

55.1 - VACUUM CUPS ACCESORIES

SEI-SG2 Vacuum Cup Insert for SG2 without support ring





ADVANTAGES

- V1 - The SEI-SG2 inserts prevent thin, flexible materials from being pulled into the SG2 suction pad when gripping.
- V2 - The flat inserts are equipped with air channels that ensure a uniform vacuum.
- V3 - SEI inserts can easily be retrofitted in the suction pad without tools.

REMARK

- - Other variants on request
- - Suction pads are not included in the scope of delivery

INFO

- Area of application:
- for delicate thin workpieces where no deformation may occur during gripping

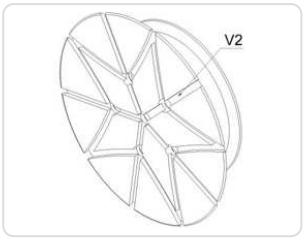
DESIGNATION	ITEM NO.	X
SEI-SG2-40	1-55-98-20-00-SEI	SG2-40
SEI-SG2-50	1-55-98-24-00-SEI	SG2-53
SEI-SG2-75	1-55-98-30-00-SEI	SG2-75

Legend: X = suitable for suction pads SG2-...

55.1 - VACUUM CUPS ACCESORIES

SEI-SG3 Vacuum Cup Insert for SG3 without support ring





ADVANTAGES

- V1 - The SEI-SG3 inserts prevent thin, flexible materials from being pulled into the SG3 suction pad when gripping.
- V2 - The flat inserts are equipped with air channels that ensure a uniform vacuum.
- V3 - SEI inserts can easily be retrofitted in the suction pad without tools.

REMARK

- - Other variants on request
- - Suction pads are not included in the scope of delivery

INFO

- Area of application:
- For delicate thin workpieces that must not be deformed during gripping

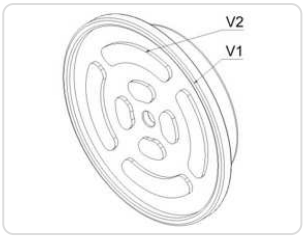
DESIGNATION	ITEM NO.	X
SEI-SG3-42	1-55-98-70-00-SEI	SG3-42
SEI-SG3-62	1-55-98-76-00-SEI	SG3-62
SEI-SG3-88	1-55-98-82-00-SEI	SG3-88

Legend: X = suitable for suction pads SG3-...

55.1 - VACUUM CUPS ACCESORIES

SEI-SG2-SR Vacuum Cup Insert for SG2 with support ring





ADVANTAGES

- V1 - The SEI-SG2-SR inserts are equipped with a support ring and thus ensure good stability
- V2 - The nubs prevent the object from being sucked into the suction pad and thus prevent deformation.
- V3 - SEI inserts can easily be retrofitted in the suction pad without tools.
- V4 - With a special version SEI-SG2-SR made of heat-resistant material, even very hot parts can be gripped securely without becoming deformed.

REMARK

- - Other variants on request
- - Suction pads are not included in the scope of delivery

INFO

- Area of application:
- Smooth workpieces that must not leave any marks

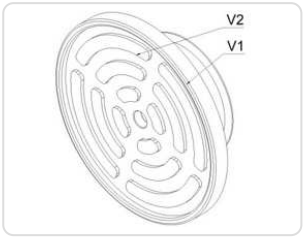
DESIGNATION	ITEM NO.	X
SEI-SG2-40-SR	1-55-97-20-00-SEI	SG2-40
SEI-SG2-50-SR	1-55-97-24-00-SEI	SG2-50
SEI-SG2-75-SR	1-55-97-30-00-SEI	SG2-75

Legend: X = suitable for suction pads SG2-...

55.1 - VACUUM CUPS ACCESORIES

SEI-SG3-SR Vacuum Cup Insert for SG3 with support ring





ADVANTAGES

- V1 - The SEI-SG3-SR inserts are equipped with a support ring and thus ensure good stability
- V2 - SEI inserts can easily be retrofitted in the suction pad without tools.
- V3 - With a special version SEI-SG3-SR made of heat-resistant material, even very hot parts can be gripped securely without becoming deformed.

REMARK

- - Other variants on request
- - Suction pads are not included in the scope of delivery

INFO

- Area of application:
- Smooth workpieces that must not leave any marks

DESIGNATION	ITEM NO.	X
SEI-SG3-42-SR	1-55-97-70-00-SEI	SG3-42
SEI-SG3-62-SR	1-55-97-76-00-SEI	SG3-62
SEI-SG3-88-SR	1-55-97-82-00-SEI	SG3-88

Legend: X = suitable for suction pads SG3-...

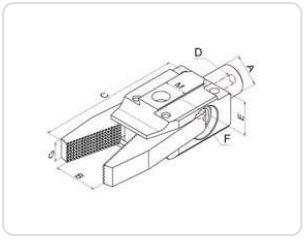
60.0 Grippers

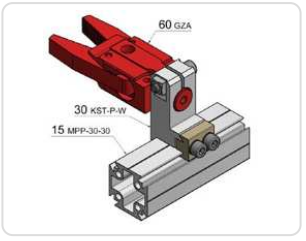


GRIPPER 2 PISTONS

GZA-PA Gripper with Prism







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire
- length
- V5 - simple attachment using PreciGrip clamps
- V6 - Cross-serrated jaw surface

REMARK

- Operating principle: Single-acting
- Operating pressure: 6bar filtered and dried
- air use
- Optional: Query
- Various pliers geometries available
- The illustration above shows our GZA-14-16-P13 gripping pliers.

DOCUMENTS

- GZA_Beipack.pdf
- Path

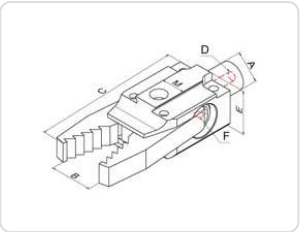
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	M	N	WEIGHT	X
GZA-10-8-P13	1-60-08-11-00-GZA	10	8	41	M5	12,3	M5	4	P13	12N	0.015Kg	0,5-3mm
GZA-10-12-P13	1-60-10-11-00-GZA	10	19	68	M5	17,5	M5	6	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-P13	1-60-12-11-00-GZA	14	21	75	M5	22,5	M5	10	P13	55N	0.077Kg	2,5-8mm
GZA-20-20-P22	1-60-14-11-00-GZA	20	25	85	M5	29	M5	12	P22	100N	0.148Kg	3,5-12
GZA-20-16-P13	1-60-15-11-00-GZA	20	21	75	M5	22,5	M5	10	P13	55N	0.088Kg	2,5-8mm

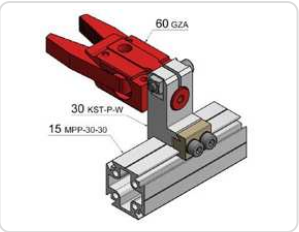
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-S Gripper with Saw Tooth Jaws







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Gripper jaws with saw tooth
- V5 - Clamping diameter (A) usable over the entire
- length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The image above shows our GZA-14-16-S gripper.

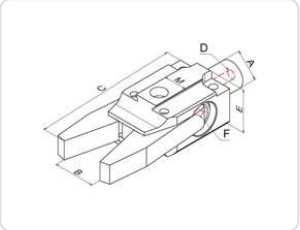
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GZA-10-8-S	1-60-08-16-00-GZA	10	8	41	M5	12,3	M5	P13	12N	0.015Kg	0,5-3mm
GZA-10-12-S	1-60-10-16-00-GZA	10	19	68	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-S	1-60-12-16-00-GZA	14	21	75	M5	22,5	M5	P13	55N	0.077Kg	2,5-8mm
GZA-20-20-S	1-60-14-16-00-GZA	20	25	85	M5	29	M5	P22	100N	0.148Kg	3,5-12

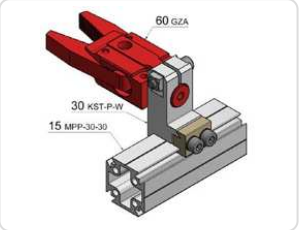
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) X = suitable for sprue thickness ... Gripping force 10N = 1kg

GRIPPER 2 PISTONS

GZA-G Gripper with Smooth Jaws







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Gripper jaws with smooth surface
- V5 - Clamping diameter (A) usable over the entire
- length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-14-16-G gripper.

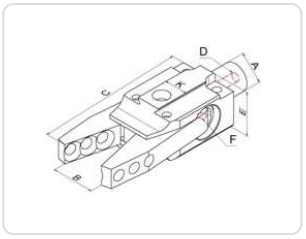
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GZA-10-8-G Gripper with Smooth Jaws	1-60-08-18-00-GZA	10	8	41	M5	12,3	M5	P13	12N	0.015Kg	0,5-3mm
GZA-10-12-G	1-60-10-18-00-GZA	10	19	68	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-G	1-60-12-18-00-GZA	14	21	75	M5	22,5	M5	P13	55N	0.077Kg	2,5-8mm
GZA-20-20-G	1-60-14-18-00-GZA	20	25	85	M5	29	M5	P22	100N	0.148Kg	3,5-12

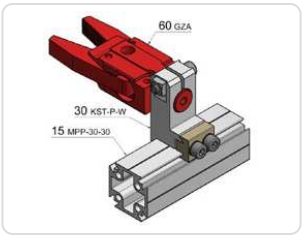
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) X = suitable for sprue thickness ... Gripping force 10N = 1kg

GRIPPER 2 PISTONS

GZA-L Gripper with Holes in Jaws







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire
- length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-14-16-L gripper.

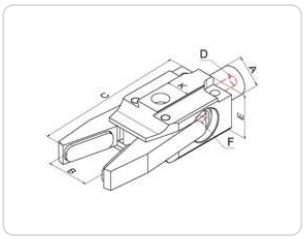
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	N	WEIGHT	X
GZA-10-12-L	1-60-10-30-00-GZA	10	18	68,5	M5	17,5	M5	P13	20N	0.038Kg	1,5-6mm
GZA-14-16-L	1-60-12-30-00-GZA	14	18	75	M5	22,5	M5	P13	55N	0.078Kg	2,5-8mm
GZA-20-20-L	1-60-14-30-00-GZA	20	22	85	M5	29	M5	P22	100N	0.142Kg	3,5-12mm

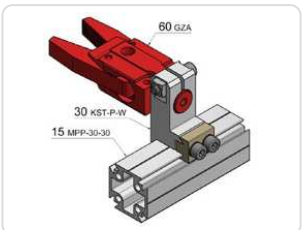
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) X = suitable for sprue thickness ... Gripping force 10N = 1kg

GRIPPER 2 PISTONS

GZA-P Gripper with Polyurethan Inserts







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with polyurethane insert
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire
- length

REMARK

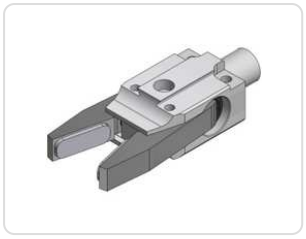
- Operating principle: Single-acting
- Operating pressure: 6 bar use filtered and dried
- air
- Optional: Query
- PU coating hardness: 55° Shore A
- Temperature resistance: 80°C
- The image above shows our GZA-14-16-P gripper.

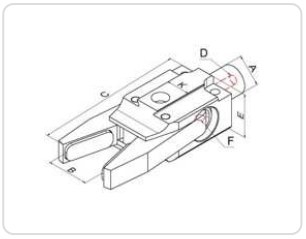
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	N	WEIGHT	X
GZA-10-12-P	1-60-10-32-00-GZA	10	18	68,5	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-P	1-60-12-32-00-GZA	14	18	75	M5	22,5	M5	P13	55N	0.083Kg	2,5-8mm
GZA-20-20-P	1-60-14-32-00-GZA	20	22	85	M5	29	M5	P22	100N	0.158Kg	3,5-12mm

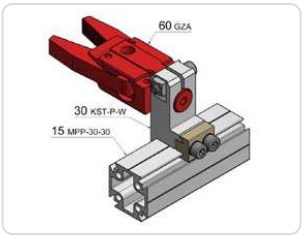
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) X = suitable for sprue thickness ... Gripping force 10N = 1kg

GRIPPER 2 PISTONS

GZA-SI Gripper with Silicon Inserts







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with silicone insert, which are elastic and
- temperature-resistant
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-14-16-SI gripper.

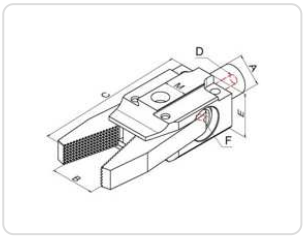
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	N	WEIGHT	X
GZA-10-12-SI	1-60-10-54-00-GZA	10	18	68,5	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-SI	1-60-12-54-00-GZA	14	18	75	M5	22,5	M5	P13	55N	0.083Kg	2,5-8mm
GZA-20-20-SI	1-60-14-54-00-GZA	20	22	85	M5	29	M5	P22	100N	0.158Kg	3,5-12mm

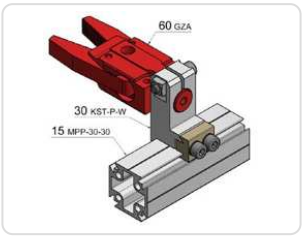
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) X = suitable for sprue thickness ... Gripping force 10N = 1kg

GRIPPER 2 PISTONS

GZA-T Gripper with Teflon Coated Jaws







ADVANTAGES

- V1 - the gripper jaws are Teflon-coated. Thus
- the sprue cannot stick to the jaws
- V2 - Closing movement via 2 pistons
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) can be used over the entire length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar use filtered and dried
- air
- The illustration above shows our GZA-14-16-T gripper.

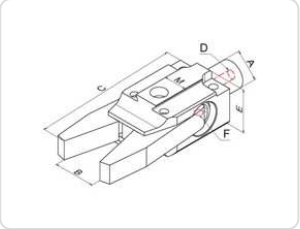
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GZA-10-8-T	1-60-08-34-00-GZA	10	8	41	M5	12,3	M5	P13	12N	0.015Kg	0,5-3mm
GZA-10-12-T	1-60-10-34-00-GZA	10	19	68	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-T	1-60-12-34-00-GZA	14	21	75	M5	22,5	M5	P13	55N	0.077Kg	2,5-8mm
GZA-20-20-T	1-60-14-34-00-GZA	20	25	85	M5	29	M5	P22	100N	0.148Kg	3,5-12mm

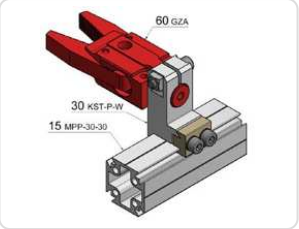
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-G-T Gripper with Smooth Teflon Coated Jaws







ADVANTAGES

- V1 - the smooth gripper jaws are Teflon-coated. Thus
- the sprue cannot stick to the jaws
- V2 - Closing movement via 2 pistons
- V3 - compact fastening / optimum force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar use filtered and dried
- air
- The image above shows our GZA-14-16-G-T gripper.

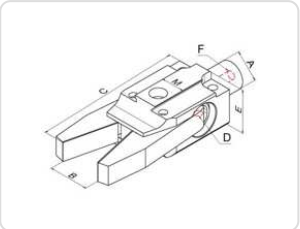
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GZA-10-12-G-T	1-60-10-48-00-GZA	10	19	68	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-G-T	1-60-12-48-00-GZA	14	21	75	M5	22,5	M5	P13	55N	0.04Kg	2,5-8mm
GZA-20-20-G-T	1-60-14-48-00-GZA	20	25	85	M5	29	M5	P22	100N	0.04Kg	3,5-12mm

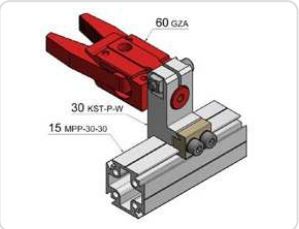
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-EP Gripper with Elastomer-PUR Coating







ADVANTAGES

- V1 - the gripper jaws have a high-strength elastomer-PUR coating.
- V2 – can be used to grip workpieces made from a wide variety of materials without causing damage
- V3 - the jaws are abrasion-resistant and very grippy due to the high static friction
- V4 - compact attachment/optimised force transmission
- -short levers
- V5 - heat-resistant up to 130°C for short periods

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar Use filtered and dried air

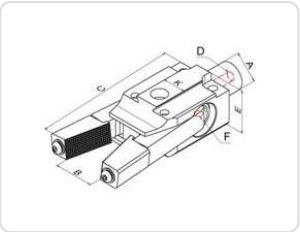
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GZA-10-12-EP	1-60-10-38-00-GZA	10	19	68	M5	17,5	M5	P13	20N	0.04Kg	1,5-6mm
GZA-14-16-EP	1-60-12-38-00-GZA	14	21	75	M5	22,5	M5	P13	55N	0.077Kg	2,5-8mm
GZA-20-20-EP	1-60-14-38-00-GZA	20	25	85	M5	29	M5	P22	100N	0.148Kg	3,5-12mm

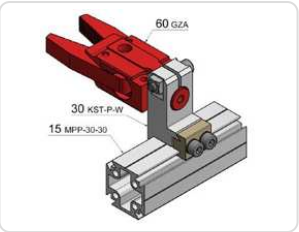
Legend: D = Air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-DB Gripper with Swivel Jaws







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Gripper jaws with cross-ribbing
- V5 - Clamping diameter (A) usable over the entire
- length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- Gripper jaws can be rotated 5° from centre position
- The illustration above shows our GZA-14-16-DB gripper.

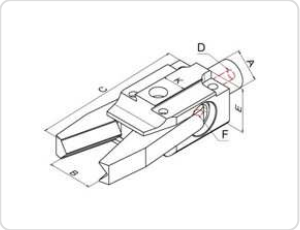
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	N	WEIGHT	X
GZA-10-12-DB	1-60-10-20-00-GZA	10	19	68,5	M5	17,5	M5	P13	20N	0.048Kg	1,5-6mm
GZA-14-16-DB	1-60-12-20-00-GZA	14	21	75	M5	22,5	M5		55N	0.084Kg	2,5-8mm
GZA-20-20-C	1-60-14-20-00-GZA	20	25	85	M5	29	M5		100N	0.153Kg	3,5-12mm

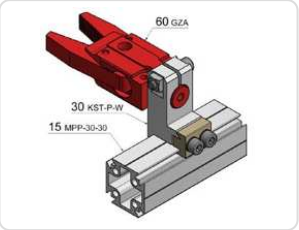
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-PK Gripper with Prism - Slot







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire length

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-14-16-PK gripper.

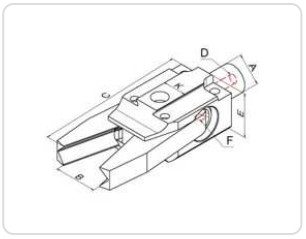
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	N	WEIGHT	X
GZA-10-8-PK	1-60-08-22-00-GZA	10	8	41	M5	12,3	M5	P13	12N	0.015Kg	0,5-3mm
GZA-10-12-PK	1-60-10-22-00-GZA	10	18	68,5	M5	17,5	M5	P13	20N	0.039Kg	1,5-6mm
GZA-14-16-PK	1-60-12-22-00-GZA	14	20	75	M5	22,5	M5	P13	55N	0.08Kg	2,5-8mm
GZA-20-20-PK	1-60-14-22-00-GZA	20	22	85	M5	29	M5	P22	100N	0.148Kg	3,5-12mm

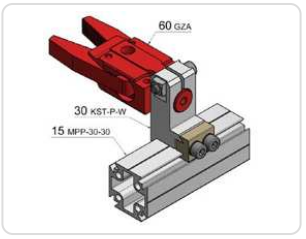
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) X = suitable for sprue thickness ... Gripping force 10N = 1kg

GRIPPER 2 PISTONS

GZA-KK Gripper with Slot - Slot







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) can be used over the entire length

REMARK

- Operating principle:Single-acting
- Operating pressure: 6 bar Use filtered and dried air
- The illustration above shows our GZA-14-16-KK gripper.

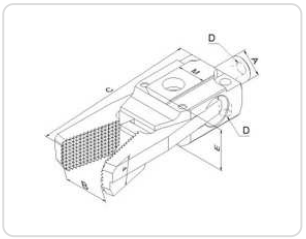
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	N	WEIGHT	X
GZA-10-8-K-K	1-60-08-24-00-GZA	10	8	41	M5	12,3	M5	P13	12N	0.015Kg	0,5-3mm
GZA-10-12-KK Gripper with slot - slot	1-60-10-24-00-GZA	10	18	68,5	M5	17,5	M5	P13	20N	0.038Kg	1,5-6mm
GZA-14-16-KK	1-60-12-24-00-GZA	14	20	75	M5	22,5	M5	P13	55N	0.08Kg	2,5-8mm
GZA-20-20-KK	1-60-14-24-00-GZA	20	22	85	M5	29	M5	P22	100N	0.147Kg	3,5-12mm

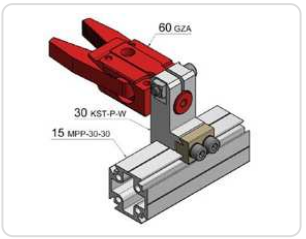
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-BB Gripper with Wide Jaws







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - extra wide gripping surface
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire
- length

REMARK

- Operating principle: Single-acting
- Operating pressure: Use 6 bar filtered and dried
- air
- The illustration above shows our GZA-10-12-P13-BB gripper.

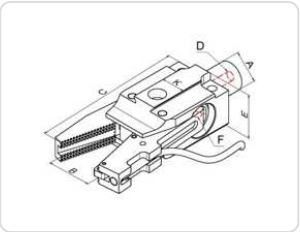
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	WEIGHT	X
GZA-10-8-P13-BB	1-60-08-36-00-GZA	10	8	41	M5	12,3	9,5	P13	12N	0.017Kg	0,5-3mm
GZA-10-12-P13-BB	1-60-10-36-00-GZA	10	19	68	M5	17,5	13,5	P13	20N	0.045Kg	1,5-6mm

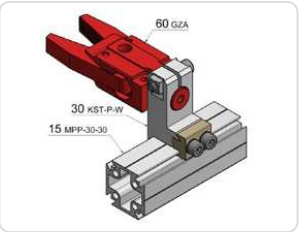
Legend: D = Air connection through shaft F = lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-C Gripper with Sensor







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Gripper jaws with cross corrugation
- V5 - Clamping diameter (A) usable over the entire
- length
- V6 - Standard sensor (sprue present) with C-slot
- Cylinder sensor ZYS
- V7 - Protected query

REMARK

- Operating principle: Single-acting
- Operating pressure: Use 6 bar filtered and dried air
- The illustration above shows our GZA-14-16-C-K gripper.
- Optional scope of delivery:
- GZA ..... S incl. cylinder sensor ZYS-3,7-300-S with plug
- GZA ..... K incl. cylinder sensor ZYS-3,7-2500-K with cable

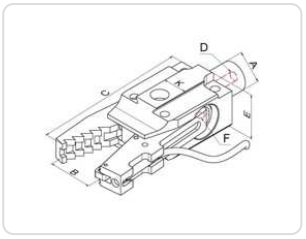
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	N	WEIGHT	X
GZA-10-8-C-S	1-60-08-14-00-GZA	10	6	43	M5	12,5	M5	P13	ZYS-3,7-300-S	300	12N	0.015Kg	0,5-3mm
GZA-10-8-C-K	1-60-08-15-00-GZA	10	6	43	M5	12,5	M5	P13	ZYS-3,7-2500-K	2500	12N	0.015Kg	0,5-3mm
GZA-10-12-C-S	1-60-10-14-00-GZA	10	17	68,5	M5	17,5	M5	P13	ZYS-3,7-300-S	300	20N	0.04Kg	1,5-6mm
GZA-10-12-C-K	1-60-10-15-00-GZA	10	17	68,5	M5	17,5	M5	P13	ZYS-3,7-2500-K	2500	20N	0.04Kg	1,5-6mm
GZA-14-16-C-S	1-60-12-14-00-GZA	14	18	75	M5	22,5	M5	P13	ZYS-3,7-300-S	300	55N	0.08Kg	2,5-8mm
GZA-14-16-C-K	1-60-12-15-00-GZA	14	18	75	M5	22,5	M5	P13	ZYS-3,7-2500-K	2500	55N	0.08Kg	2,5-8mm
GZA-20-20-C-S	1-60-14-14-00-GZA	20	21	85	M5	29	M5	P22	ZYS-3,7-300-S	300	100N	0.159Kg	3,5-12mm
GZA-20-20-C-K	1-60-14-15-00-GZA	20	21	85	M5	29	M5	P22	ZYS-3,7-2500-K	2500	100N	0.159Kg	3,5-12mm
GZA-20-16-C-S	1-60-15-14-00-GZA	20	18	75	M5	22,5	M5	P13	ZYS-3,7-300-S	300	55N	0.102Kg	2,5-8mm
GZA-20-16-C-K	1-60-15-15-00-GZA	20	18	75	M5	22,5	M5	P13	ZYS-3,7-2500-K	300	55N	0.102Kg	2,5-8mm

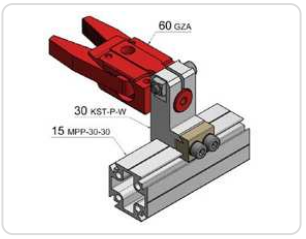
Legend: D = Air connection through shaft F = lateral air connection L = Cylinder sensor (plug or cable) M = Cable length N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness

GRIPPER 2 PISTONS

GZA-S-C-S Gripper with Saw Tooth and Sensor







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Gripper jaws with cross serration
- V5 - Clamping diameter (A) can be used over the entire length
- V6 - Standard sensor (sprue available) with C-slot
- Cylinder sensor ZYS
- V7 - Gun interrogation

REMARK

- Operating principle: Single-acting
- Operating pressure: Use 6 bar filtered and dried
- air
- The illustration above shows our gripper GZA-14-16-S-C-S.
- Scope of delivery:
- GZA ..... S incl. cylinder sensor
- ZYS-3,7-300-S with plug
- Cable KAD-M8-3 ... with plug for ZYS-3,7-300-S direct
- order at the same time!

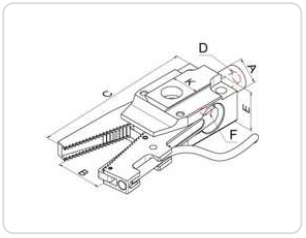
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	N	WEIGHT	X
GZA-10-12-S-C-S	1-60-10-17-00-GZA	10	18	68,5	M5	17,5	M5	P13	ZYS-3,7-300-S	300	20N	0.04Kg	1,5-6mm
GZA-14-16-S-C-S	1-60-12-17-00-GZA	14	20	75	M5	22,5	M5	P13	ZYS-3,7-300-S	300	55N	0.08Kg	2,5-8mm
GZA-20-20-S-C-S	1-60-14-17-00-GZA	20	22	85	M5	29	M5	P22	ZYS-3,7-300-S	300	100N	0.159Kg	3,5-12mm
GZA-20-16-S-C	1-60-15-17-00-GZA	20	20	75	M5	22,5	M5	P13	ZYS-3,7-300-S	300	55N	0.102Kg	2,5-8mm

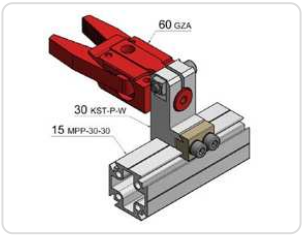
Legend: D = Air connection through shaft F = lateral air connection L = Cylinder sensor (plug or cable) M = cable length N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness

GRIPPER 2 PISTONS

GZA-C-T Gripper with Sensor and Teflon Coated Jaws







ADVANTAGES

- V1 - The gripper jaws and the switching lug are Teflon-coated.
- This prevents the sprue from sticking to the jaws.
- V2 - Closing movement via 2 pistons
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Gripper jaws with cross corrugation
- V5 - Clamping diameter (A) usable over the entire
- length
- V6 - Standard monitoring (sprue present) with C-slot
- Cylinder sensor ZYS
- V7 - Protected monitoring

REMARK

- Operating principle: Single-acting
- Operating pressure: Use 6 bar filtered and dried
- air
- The illustration above shows our GZA-10-12-CS-T gripper.
- other sizes on request
- Scope of delivery:

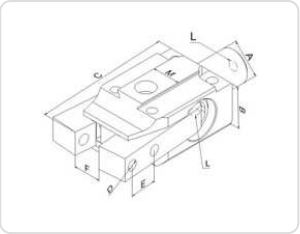
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	N	WEIGHT	X
GZA-10-8-CS-T	1-60-08-42-00-GZA	10	6	43	M5	12,5	M5	P13	ZYS-3,7-300-S	300	12N	0.015Kg	0,5-3mm
GZA-10-12-CS-T	1-60-10-42-00-GZA	10	17	68,5	M5	17,5	M5	P13	ZYS-3,7-300-S	300	20N	0.04Kg	1,5-6mm

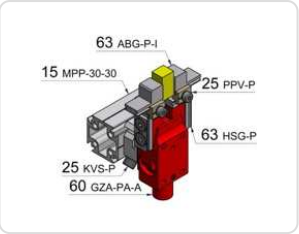
Legend: D = Air connection through shaft F = lateral air connection L = cylinder sensor (plug or cable) M = cable length N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness

GRIPPER 2 PISTONS

GZA-PA-A Gripper for Custom Made Jaws with Prism







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - Gripper jaws with special coating
- V3 - compact attachment/ optimised force transmission
- -short levers
- V4 - Clamping diameter (A) usable over the entire
- length
- V5 - simple attachment using PreciGrip
- clamping pieces

REMARK

- Operating principle:Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-14-16-P13-A gripper.

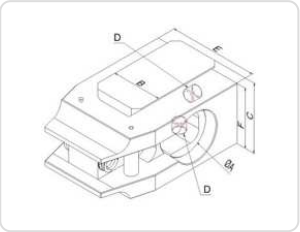
DESIGNATION	ITEM NO.	A	B	C	D	E	F	L	M	N	WEIGHT	X
GZA-10-12-A	1-60-10-13-00-GZA	10	17,5	46,5	M4	10	12,3	M5	P13	40N	0.033Kg	1,5-6mm
GZA-14-16-A	1-60-12-13-00-GZA	14	22,5	57,5	M5	12	11,8	M5	P13	100N	0.072Kg	2,5-8mm
GZA-20-20-A Gripper for Custom made Jaws	1-60-14-13-00-GZA	20	25	62,5	M5	12	12,5	M5	P22	180N	0.134Kg	
GZA-20-16-P13-A	1-60-15-13-00-GZA	20	22,5	57,5	M5	12	11,8	M5	P13	100N	0.082Kg	2,5-8mm

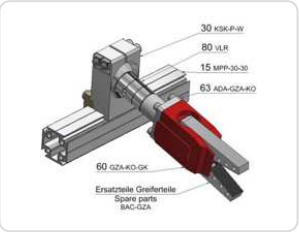
Legend: L = Air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-KO-GK Gripper Basic Body Configurable







ADVANTAGES

- V1 - The GZA-KO-GF base body makes it possible to configure the gripper with different jaws, with or without a shaft, depending on requirements.
- V2 - If you attach the gripper using a prism, it is not necessary to use the adapter shaft. This saves weight and enables a compact design in the tightest of spaces.
- V3 - On the other hand, the use of the ADA-GZA-KO adapter shaft has the advantage of an extra-long clamping option on the shaft diameter
- V4 - Closing movement via two pistons

REMARK

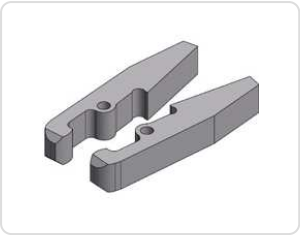
- Operating principle: Single-acting
- Operating pressure: 6 bar use filtered and dried
- air
- The illustration above shows our GZA-KO-20-P22-GF gripper.

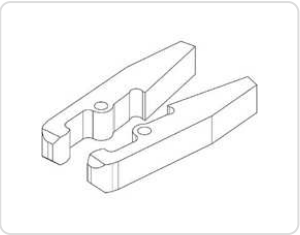
DESIGNATION	ITEM NO.	A	B	C	D	E	F	N	O	WEIGHT	X
GZA-KO-20-P22-GK	1-60-14-60-00-GZA	20	P22	29	M5	38	25	100N	BAC-GZA-20-20	0.108Kg	ADA-GZA-KO-20

Legend: A = Piston diameter D = Air connection through shaft and lateral air connection N = gripping force (at 6bar) Gripping force 10N = 1kg O = suitable for gripper jaws BAC-GZA-... X = suitable for adapter ADA-GZA-KO-....

SPARE PARTS GRIPPER PARTS

BAC-GZA-G Gripper jaw sets for GZA-G grippers





ADVANTAGES

- V1 - Gripper jaws with special coating
- V2 - Jaw surface with smooth surface

REMARK

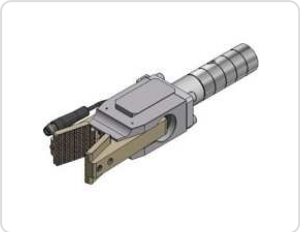
- suitable for GZA-G - gripper smooth jaws
- Scope of delivery:
- Shipping unit: 1PU = 2 gripper jaws
- Price: Set price (1 PU)

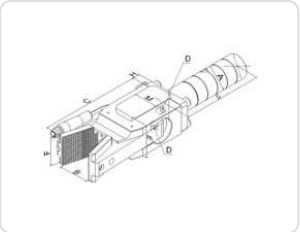
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-8-G	1-63-50-50-00-BAC	0.006Kg	GZA-10-8-G
BAC-GZA-10-12-G	1-63-50-52-00-BAC	0.006Kg	GZA-10-12-G
BAC-GZA-14-16-G	1-63-50-54-00-BAC	0.006Kg	GZA-14-16-G
BAC-GZA-20-20-G	1-63-50-55-00-BAC	0.043Kg	GZA-20-20-G

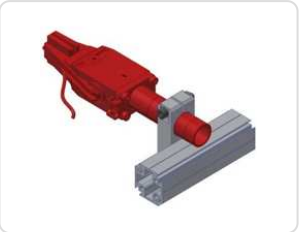
Legend: X = suitable for GZA-.....

GRIPPER 2 PISTONS

GZA-BB-C Gripper with Wide Jaws and Sensor







ADVANTAGES

- V1 - Closing movement via 2 pistons
- V2 - extra wide gripping surface
- V3 - extra long clamping option on diameter (A) by using our VLR extension tube

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-20-20-P22-BB-C gripper

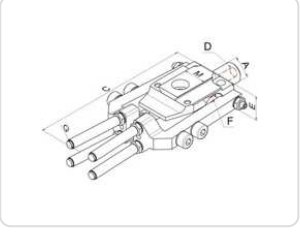
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	M	N	WEIGHT	X
GZA-20-20-P22-BB-CS	1-60-14-40-00-GZA	20	25	88,5	M5	29	25	70	6	P22	100N	0.224Kg	3,5-12

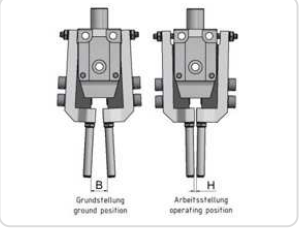
Legend: D = Air connection through shaft as well as lateral air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg X = suitable for sprue thickness ...

GRIPPER 2 PISTONS

GZA-ST Gripping pliers with pins







ADVANTAGES

- V1 – Closing movement via 2 pistons
- V2 – Clamping diameter (A) on the entire
- length usable
- V3 – simple mounting using PreciGrip clamping pieces

REMARK

- Operating principle: Single-acting

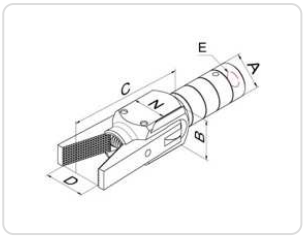
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	L	M	N	WEIGHT
GZA-10-12-ST-2	1-60-10-70-00-GZA	10	9,5	87	M5	17,5	M5	4,5	1,5	M5	P13	40N	0.073Kg
GZA-10-12-ST-4	1-60-10-72-00-GZA	10	9,5	87	M5	17,5	M5	4,5	1,5	4	P13	40N	0.073Kg

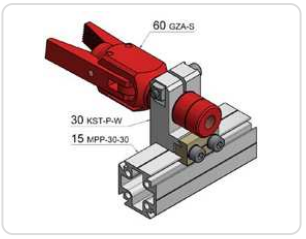
Legend: D = Air connection via shaft F = side air connection N = gripping force (at 6 bar) Gripping force 10 N = 1 kg

GRIPPER LIGHT

GZA-S-20-16 Special Gripper with Jaws Surface Crossed fluted







ADVANTAGES

- V1 - Closing movement via 1 piston
- V2 - Gripper jaws with special coating
- V3 - Clamping round and prismatic
- V4 - Marking grooves every 10 mm on shaft
- for easy adjustment
- V5 - two gripper variants available: Jaws with
- small and large opening angle

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-S-20-16-24 gripper.

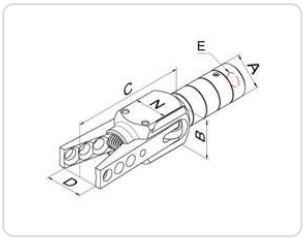
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N
GZA-S-20-16-24	1-60-20-30-00-GZA	20	25	73	24	G1/8	65N	P22
GZA-S-20-16-34	1-60-20-31-00-GZA	20	25	73	34	G1/8	65N	P22

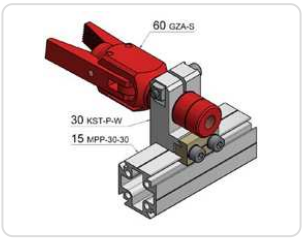
Legend: E = Air connection M = gripping force (at 6 bar) Gripping force 10N = 1kg

GRIPPER LIGHT

GZA-S-20-16-L Special Gripper with Holes in Jaws







ADVANTAGES

- V1 - Closing movement via 1 piston
- V2 - Gripper jaws with special coating
- V3 - Clamping round and prismatic
- V4 - Marking grooves every 10 mm on shaft
- for easy adjustment

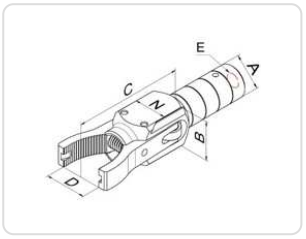
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	WEIGHT
GZA-S-20-16-L-24	1-60-20-10-00-GZA	20	25	73	23	G1/8	65N	P22	0.102Kg

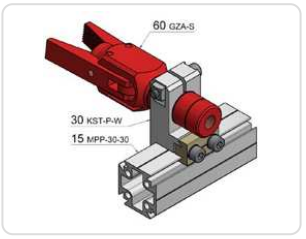
Legend: E = Air connection M = gripping force (at 6 bar) Gripping force 10N = 1kg

GRIPPER LIGHT

GZA-S-20-16-R Special Gripper with Rounded Jaws







ADVANTAGES

- V1 - Closing movement via 1 piston
- V2 - Gripper jaws with special coating
- V3 - Clamping round and prismatic
- V4 - Marking grooves every 10mm on shaft
- for easy adjustment

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar Use filtered and dried air

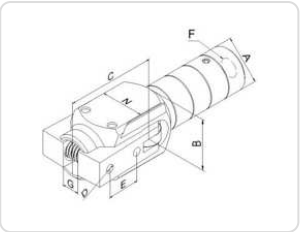
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	WEIGHT
GZA-S-20-16-R-24	1-60-20-40-00-GZA	20	25	73	23	G1/8	65N	P22	0.099Kg

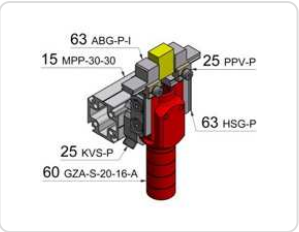
Legend: E = Air connection M = gripping force (at 6 bar) Gripping force 10N = 1kg

GRIPPER LIGHT

GZA-S-20-16-A Special Gripper with Adapter Blank Jaws







ADVANTAGES

- V1 - Closing movement via 1 piston
- V2 - Gripper jaws with special coating
- V3 - Round and prism clamping
- V4 - Marking grooves every 10mm on shaft
- for easy adjustment

REMARK

- Operating principle: Single-acting
- The gripping force depends on the design
- of the jaws
- Operating pressure: 6 bar filtered and dried
- air

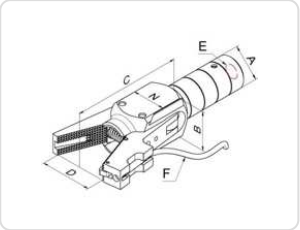
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	M	N	WEIGHT
GZA-S-20-16-A-28	1-60-20-20-00-GZA	20	25	47	M5	16	G1/8	8,4	65N	P22	0.096Kg

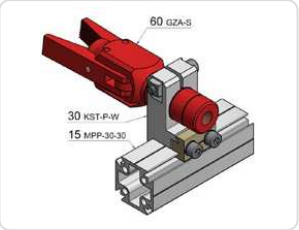
Legend: F = Air connection M = gripping force (at 6 bar) Gripping force 10N = 1kg

GRIPPER LIGHT

GZA-S-20-16-C Special Gripper with Jaws Surface Crossed fluted and Sensor







ADVANTAGES

- V1 - Closing movement via a piston
- V2 - Gripper jaws with special coating
- V3 - Gripper jaws with cross-ribbing
- V4 - Clamping round and prism
- V5- Marking grooves every 10 mm on the shaft for
- easy adjustment
- V6 - Standard sensor (sprue available) with C-slot cylinder sensor ZYS
- V7 - Gun-type query

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air
- Optional scope of delivery:
- GZA ..... S incl. cylinder sensor ZYS-3,7-300-S with plug
- GZA ..... K incl. cylinder sensor ZYS-3,7-2500-K with cable

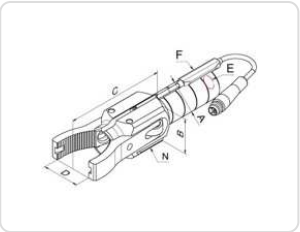
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	M	N	WEIGHT
GZA-S-20-16-CS-34	1-60-20-26-00-GZA	20	25	73	32,5	G1/8	ZYS-3.7-300-S	300	65N	P22	0.118Kg
GZA-S-20-16-CK-34	1-60-20-27-00-GZA	20	25	73	32,5	G1/8	ZYS-3.7-2500-K	2500	65N	P22	0.118Kg

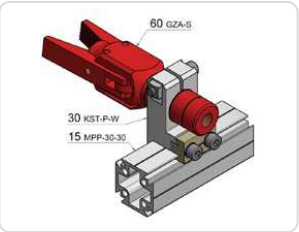
Legend: E = Air connection F = Cylinder sensor (plug or cable) G = Cable length M = Gripping force (at 6 bar) Gripping force 10N = 1kg N = Prism ....

GRIPPER LIGHT

GZA-S-20-16-R-CS Special Gripper with Rounded Jaws and Sensor







ADVANTAGES

- V1 - Closing movement via 1 piston
- V2 - Gripper jaws with special coating
- V3 - Clamping round and prismatic
- V4 - Marking grooves every 10mm on shaft for
- easy adjustment
- V5 - including teachable query (two adjustable
- switching points) with C-slot cylinder sensor ZYS-TE

REMARK

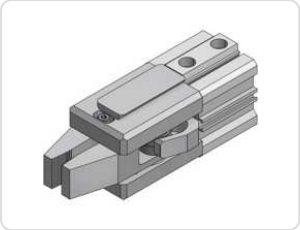
- Operating principle: Single-acting
- Operating pressure: 6 bar Use filtered and dried air

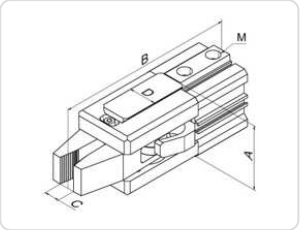
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	WEIGHT
GZA-S-20-16-R-CS-TE-23	1-60-20-44-00-GZA	20	25	73	23	G1/8	65N	P22	0.099Kg

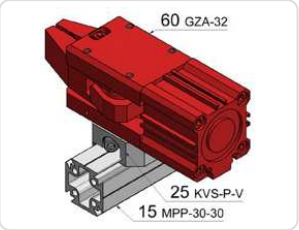
Legend: E = Air connection F = Cylinder sensor ZYS-TE-3.8-3-300-S M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Prism ....

GRIPPER HEAVY

GZA-32 Gripper with Jaws







ADVANTAGES

- V1 - extremely high closing force
- V2 - low weight (aluminium gripper jaws hard
- coated)
- V3 - Cylinder out/inquiry possible (with
- cylinder sensor ZYS)
- V4 - 2 fastening options (axial and lateral)
- V5 - Choice between short and long jaws
- with different opening widths
- (KB= short jaw, LB= long jaw)

REMARK

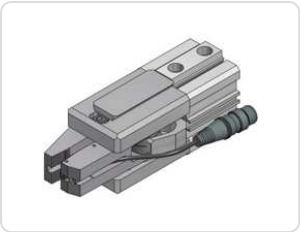
- Operating principle: Double-acting
- Order APL adapter directly
- Operating pressure: 6 bar filtered and dried
- air
- The image above shows our GZA-32-KB-12 gripper.

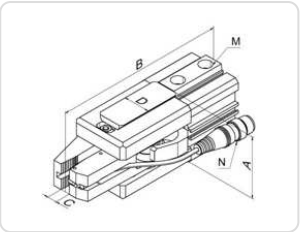
DESIGNATION	ITEM NO.	A	B	C	D	M	N	WEIGHT
GZA-32-KB-12	1-60-16-00-00-GZA	45	135	12	P22	G1/8	360N	0.504Kg
GZA-32-LB-20	1-60-16-03-00-GZA	45	165	20	P22	G1/8	300N	0.554Kg

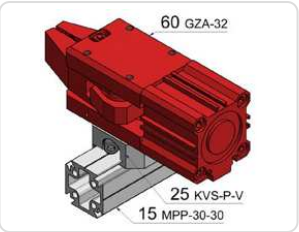
Legend: M = Air connection N = gripping force (at 6 bar) Gripping force 10N = 1kg

GRIPPER HEAVY

GZA-32-C Gripper with Sensor







ADVANTAGES

- V1 - extremely high closing force
- V2 - low weight (aluminium gripper jaws hard
- coated)
- V3 - Standard monitoring (sprue available) with C-slot
- Cylinder sensor ZYS
- V4 - Cylinder extension/retraction query possible (with
- cylinder sensor ZYS)
- V5 - 2 mounting options (axial and lateral)
- V6 - Selection between short and long jaws
- with different opening widths
- (KB= short jaw, LB= long jaw)

REMARK

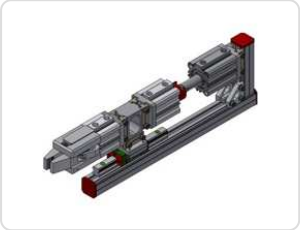
- Operating principle: Double-acting
- Order APL adapter directly !
- Operating pressure: 6 bar filtered and dried
- air
- The illustration above shows our GZA-32-CS-KB-12 gripper.

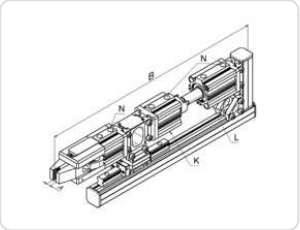
DESIGNATION	ITEM NO.	A	B	C	D	L	M	N	WEIGHT
GZA-32-CS-KB-12	1-60-16-04-00-GZA	45	135	12	P22	360N	G1/8	ZYS-3,7-300-S	0.517Kg
GZA-32-CS-LB-20	1-60-16-05-00-GZA	45	165	20	P22	300N	G1/8	ZYS-3,7-300-S	0.567Kg
GZA-32-CK-KB-12	1-60-16-06-00-GZA	45	135	12	P22	360N	G1/8	ZYS-3,7-2500-K	0.504Kg
GZA-32-CK-LB-20	1-60-16-07-00-GZA	45	165	20	P22	300N	G1/8	ZYS-3,7-2500-K	554Kg

Legend: D = Prism on the body for attachment L = Gripping force (at 6 bar) Gripping force 10N = 1kg M = Air connection N = Cylinder sensor (ZYS-...-K= sensor with cable, ZYS-...-S= sensor with plug)

GRIPPER HEAVY

GZA-32-DH-L Gripper with Double Stroke and Linear Guide







ADVANTAGES

- V1 - two working strokes
- V2 - Can be attached to the profile from 3 sides
- with clamping piece PKS
- V3 - extremely high clamping force
- V4 - Cylinder extension/retraction query possible (with cylinder sensor ZYS)

REMARK

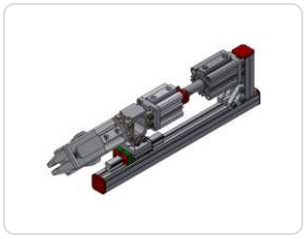
- Various strokes available on request
- Operating principle: Double-acting
- Order PKS adapter directly !
- Operating pressure: 6 bar, use filtered and dried air

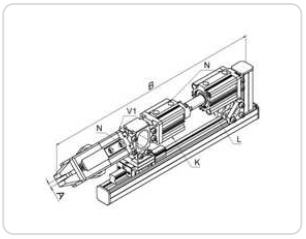
DESIGNATION	ITEM NO.	A	B	J	K	L	M	N	WEIGHT	X
GZA-32-20-30-DH-L	1-60-17-50-00-GZA	12	380	32	20	30	360N	G1/8	2.5Kg	0,5-4

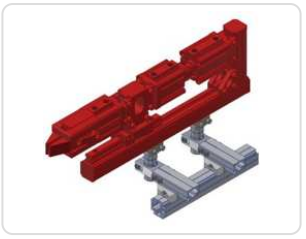
Legend: B = Dimensions with retracted strokes J = Diameter of reciprocating piston K = Demoulding stroke (the first reset stroke after gripping) Reduce stroke if necessary using stroke limiter HBE-E L = Auxiliary stroke M = Gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection X = Sprue thickness or workpiece thickness

GRIPPER HEAVY

GZA-32-DH-L-D Gripper with Double Stroke and Linear Guide, rotating GZA







ADVANTAGES

- V1 – rotatable sprue cutter
- V2 - two working strokes
- V3 - can be attached to the profile from 3 sides
- with clamping piece PKS
- V4 - extremely high clamping force
- V5 - Cylinder extension/retraction query possible (with cylinder sensor ZYS)

REMARK

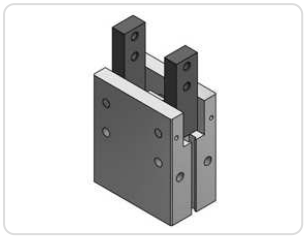
- Various strokes available on request
- Operating principle: Double-acting
- Order PKS adapter directly !
- Operating pressure: 6 bar, use filtered and dried air

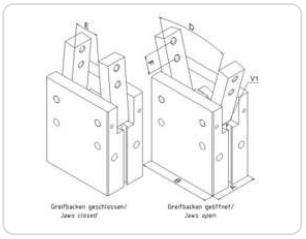
DESIGNATION	ITEM NO.	A	B	J	K	L	M	N	WEIGHT	X
GZA-32-20-30-DH-L	1-60-17-60-00-GZA	12	390	32	20	30	360N	G1/8	2.513Kg	0,5-4

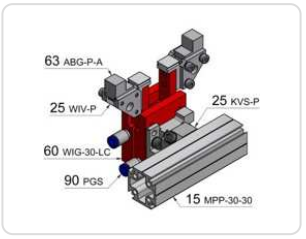
Legend: J = Piston diameter K = gripper stroke 1 L = gripper stroke 2 M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection X = sprue thickness or workpiece thickness

GRIPPER SPECIAL

WIG-30-LC Angle Gripper 30°







ADVANTAGES

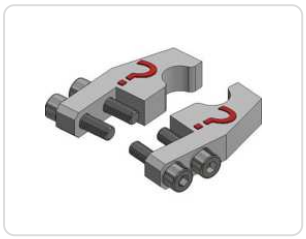
- V1 - Query gripper open/closed with
- inductive sensor INS-4-2000 possible

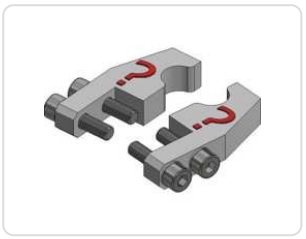
DESIGNATION	ITEM NO.	A	B	C	D	E	F	O	WEIGHT
WIG-10-30-LC angular gripper 30°	1-60-96-50-00-WIG	16	23	52,2	30°	10°	6	M3	0.1Kg
WIG-16-30-LC angular gripper 30°	1-60-96-52-00-WIG	22	34	55,5	30°	10°	8	M5	0.12Kg
WIG-20-30-LC angular gripper 30°	1-60-96-54-00-WIG	26	45	75	30°	10°	10	M5	0.2Kg
WIG-25-30-LC angular gripper 30°	1-60-96-56-00-WIG	32	52	87	30°	10°	12	M5	0.33Kg
WIG-32-30-LC angular gripper 30°	1-60-96-58-00-WIG	40	60	98	30°	10°	14	M5	0.56Kg

Legend: C = total height including jaws D = Angle gripper jaws open E = Angled gripper jaws closed O = Air connection

61.0 - GRIPPER ACCESORIES

ABG-GZA-A-SO Special Gripping Jaw





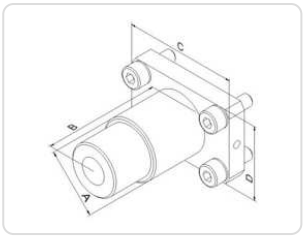
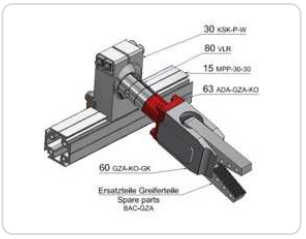
REMARK

Prices are guide prices - please enquire, as customised special production

DESIGNATION	ITEM NO.	X
BAC-GZA-10-12-A-SO	1-63-56-60-00-000	GZA-10-12-A
BAC-GZA-14-16-A-SO	1-63-56-70-00-000	GZA-14-16-A
BAC-GZA-20-20-A-SO	1-63-56-80-00-000	GZA-20-20-A

61.0 - GRIPPER ACCESORIES

ADA-GZA-KO Adapter for GZA-KO-GK

ADVANTAGES

- V1 - The use of the ADA-GZA-KO adapter shank has the advantage of an extra-long clamping option on the shank diameter
- V2 - Variable shank length through the use of extension tubes VLR-20-....

REMARK

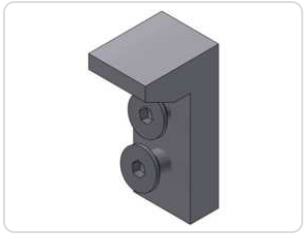
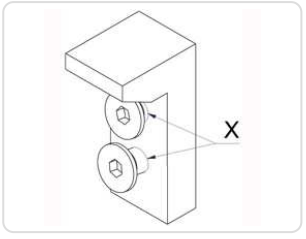
- Scope of delivery:
- incl. mounting material

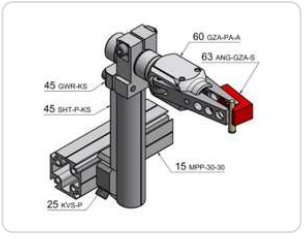
DESIGNATION	ITEM NO.	A	B	C	D	O	WEIGHT	X
ADA-GZA-KO-20	1-63-36-20-00-ADA	20	40	38	25	VLR-20	0.042Kg	GZA-KO-20-P22-GK

Legend: O = suitable for extension tube VLR-... X = suitable for gripper body GZA-KO-GK ...

61.0 - GRIPPER ACCESORIES

ANG-GZA-S Sprue Protection for Special Gripper



ADVANTAGES

- V1 - this prevents the sprue from slipping out
- V2 - Material aluminium

REMARK

- Scope of delivery:

INFO

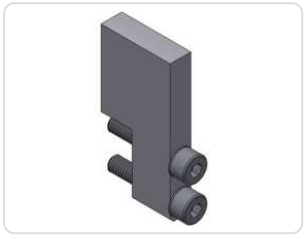
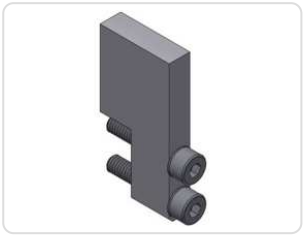
- Scope of delivery:
- Shipping unit: PU = 1 piece
- incl. fixing material

DESIGNATION	ITEM NO.	WEIGHT	X
ANG-GZA-S-20-16	1-63-10-30-00-ANG	0.01Kg	GZA-S-20-16

Legend: X = suitable for ....

61.0 - GRIPPER ACCESORIES

ABG Adapterjaws for Gripper GZA-A

ADVANTAGES

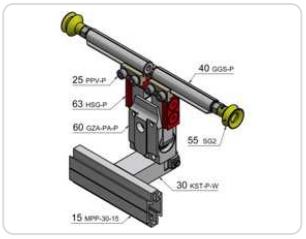
- V1 - Simple production (reworking) of customised gripper jaws for GZA-PA-A grippers
- V2 - Material aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
ABG-10-12-A-2	1-60-10-50-00-ABG	22	20	6	0.031Kg
ABG-14-16-A-2	1-60-12-50-00-ABG	29	25	10	0.071Kg
ABG-20-20-A-2	1-60-14-50-00-ABG	29	25	12	0.08Kg
ABG-S-20-16-A-2	1-60-20-50-00-ABG	22	20	12	0.07Kg

61.0 - GRIPPER ACCESORIES

HSG-P Holder with Prism for GZA-A





ADVANTAGES

- V1 - cost-effective and customised variant of a parallel gripper using AGS GZA-PA-A gripper
- V2 - this makes it possible to grip externally (with gripper jaw ABG-P13-10) and internally (with gripper arm GGS-P and suction cup)
- V3 - large fittings can also be gripped

REMARK

- Scope of delivery:

INFO

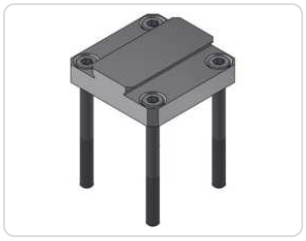
- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. mounting material

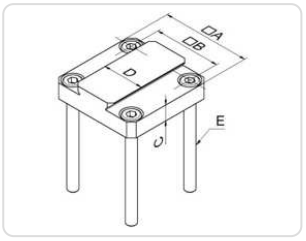
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
HSG-10-12-P13-2	1-63-20-10-00-HSG	P13	14,5	0.005Kg	GZA-10-12-A
HSG-14-16-P13-2	1-63-20-12-00-HSG	P13	17,5	0.005Kg	GZA-14-16-A u. 20-20-A
HSG-S-20-16-P13-2	1-63-20-14-00-HSG	P13	20	0.012Kg	GZA-S-20-16-A

Legend: X = suitable for ...

61.0 - GRIPPER ACCESORIES

AGZ-P Adapter gripper prism







ADVANTAGES

- V1 - GZA-32 gripper can be easily integrated into the PreciGrip system
- V2 - Adapter also suitable for HUZ32 / HZB32

REMARK

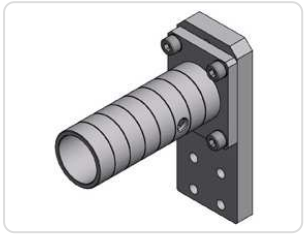
- Material: Aluminium

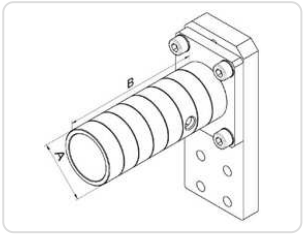
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT	X
AGZ-32-P22	1-63-32-10-00-AGZ	45	34	8	P22	M5	0.087Kg	GZA32

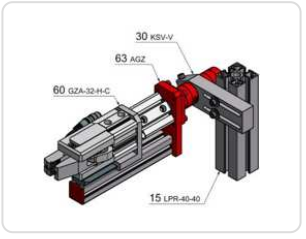
Legend: X = suitable for ...

61.0 - GRIPPER ACCESORIES

AGZ Adapter Gripper GZA-32-H







ADVANTAGES

- V1 - Marking grooves every 10mm on shaft for easy adjustment

REMARK

- Material: Aluminium

INFO

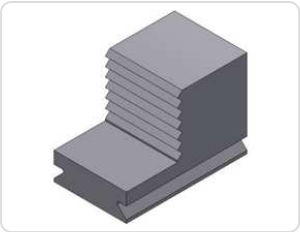
- Scope of delivery:

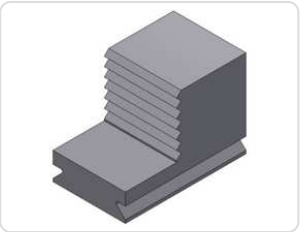
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
AGZ-32-30-80	1-63-32-40-00-AGZ	30	80	0.216Kg	GZA-32-H

Legend: X = suitable for all GZA-32 with stroke

61.0 - GRIPPER ACCESORIES

ABG-P-A Adapterjaws outside for Gripper GZA-A





ADVANTAGES

- V1 – Simple production (reworking) of customised gripper jaws (external gripper) for the GZA-A gripper, the PAG parallel gripper and the PAG-E easy parallel gripper
- V2 – Material: aluminum

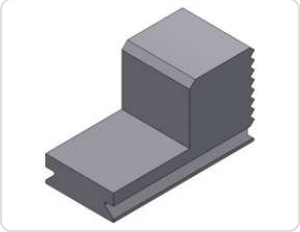
REMARK

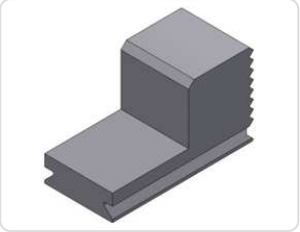
- Different packing units selectable

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ABG-P13-A-1	1-63-20-19-00-ABG	P13	12	10	20	0.003Kg
ABG-P13-A-2	1-63-20-20-00-ABG	P13	12	10	20	0.006Kg

61.0 - GRIPPER ACCESORIES

ABG-P-I Adapterjaws inside for Gripper GZA-A





ADVANTAGES

- V1 – Simple production (reworking) of customised gripper jaws (internal gripper) for the GZA-A gripper, the PAG parallel gripper and the PAG-E easy parallel gripper
- V2 – Material: aluminum

REMARK

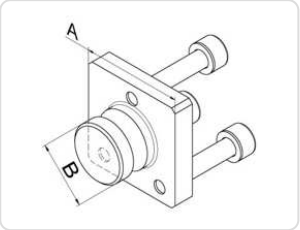
- Different packing units selectable

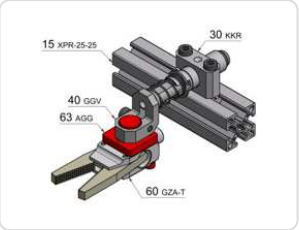
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ABG-P13-I-1	1-63-20-29-00-ABG	P13	12	14,5	25	0.003Kg
ABG-P13-I-2	1-63-20-30-00-ABG	P13	12	14,5	25	0.006Kg

61.0 - GRIPPER ACCESORIES

AGG Adapter - Gripperarm - Gripper







ADVANTAGES

- V1 - variable mounting position of the gripper
- movable by means of GGB gripper arm thread or
- GGV spring-loaded gripper arm secured against twisting

REMARK

- Scope of delivery:

INFO

- Scope of delivery:
- incl. mounting material

DESIGNATION	ITEM NO.	A	B	WEIGHT
AGG-14-10-12	1-63-00-10-00-AGG	für GGV-14 und GGB-14	GZA-10-12	0.022Kg
AGG-20-14-16	1-63-00-20-00-AGG	für GGV-20 und GGB-20	GZA-14-16	0.03Kg
AGG-20-20-20	1-63-00-30-00-AGG	für GGV-20 und GGB-20	GZA-20-20	0.032Kg

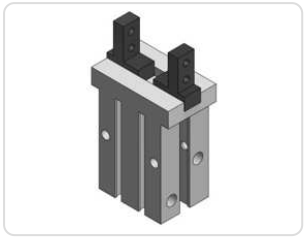
Legend: A = suitable for gripper arm GGV... B = suitable for gripper arm GZA...

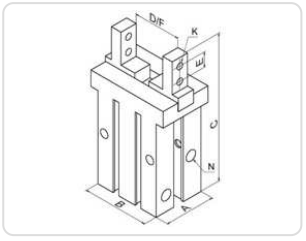
63.0 Parallel Grippers

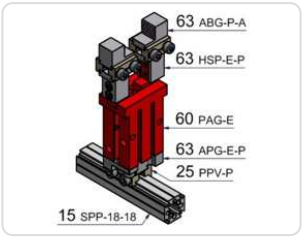


PARALLEL GRIPPER EASY

PAG-E Parallel Gripper easy







ADVANTAGES

- V1 - Query gripper open or closed with favourable standard C-slot cylinder sensor ZYS-4-H6-500-S possible
- V2 - Robust design

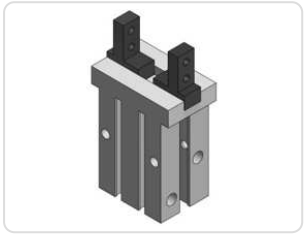
REMARK

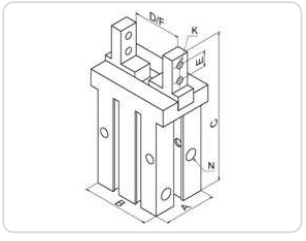
- Operating principle: Double-acting
- Operating pressure: 6 bar filtered and dried air
- Use
- Mounting option: Adapter for parallel gripper
- easy APG-E
- Order cylinder sensor ZYS-4-H6-500-S separately
- Optional: Cover for guide

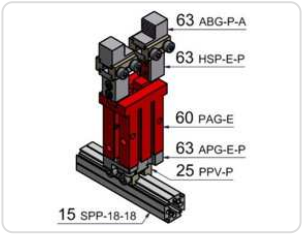
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	N	O	WEIGHT
PAG-6-E	1-60-80-20-00-PAG	10	20	53	12	5	8	M2	2	3,3N	M3	6,1N	0.027Kg
PAG-10-E	1-60-80-22-00-PAG	16	23	57	15,2	5,7	11,2	M2,5	2	11N	M3	17N	0.055Kg
PAG-16-E	1-60-80-24-00-PAG	24	30	67	21	7	15	M3	3	34N	M5	45N	0.115Kg
PAG-20-E	1-60-80-26-00-PAG	28	42	85	26,3	9	16,3	M4	5	42N	M5	66N	0.235Kg
PAG-25-E	1-60-80-28-00-PAG	34	52	103	33,3	12	19,3	M5	7,0	65N	M5	104N	0.43Kg

PARALLEL GRIPPER EASY

PAG-E-EW-DG Parallel Gripper Easy single-acting, opened without pressure







ADVANTAGES

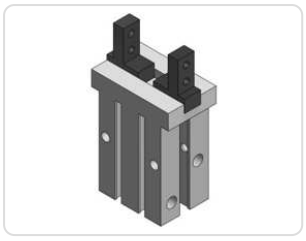
- V1 - Query gripper open or closed with favourable standard C-slot cylinder sensor ZYS-4-H6-500-S possible
- V2 - Robust design

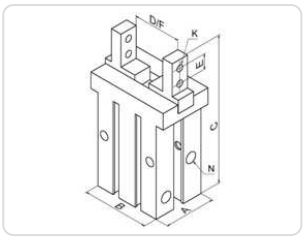
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	N	WEIGHT
PAG-6-E-EW-DG	1-60-80-20-00-002	10	20	53	12	5	8	M2	2	1,9N	M3	0.027Kg
PAG-10-E-EW-DG	1-60-80-22-00-002	16	23	57	15,2	5,7	11,2	M2,5	2	7,1N	M3	0.055Kg
PAG-16-E-EW-DG	1-60-80-24-00-002	24	30	67	21	7	15	M3	3	27N	M5	0.115Kg

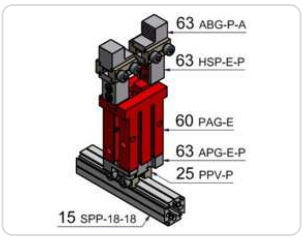
DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	N	WEIGHT
PAG-20-E-EW-DG	1-60-80-26-00-002	28	42	85	26,3	9	16,3	M4	5	33N	M5	0.24Kg
PAG-25-E-EW-DG	1-60-80-28-00-002	34	52	103	33,3	12	19,3	M5	7,0	45N	M5	0.435Kg

PARALLEL GRIPPER EASY

PAG-6-E-EW-DS Parallel Gripper Easy single-acting ,closed unpressurized







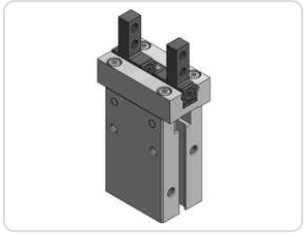
ADVANTAGES

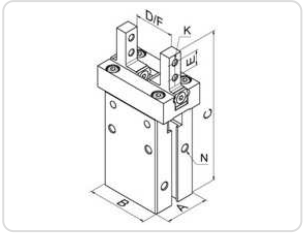
- V1 - Query gripper open or closed with favourable standard C-slot cylinder sensor ZYS-4-H6-500-S possible
- V2 - Robust design

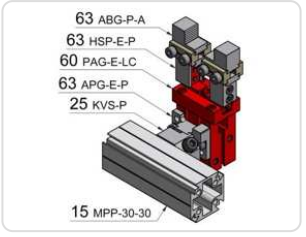
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	L	N	O	WEIGHT	K
PAG-6-E-EW-DS	1-60-80-20-00-004	10	20	53	12	8	M2	M3	2	M3	3,7N	0.027Kg	
PAG-10-E-EW-DS	1-60-80-22-00-004	16	23	57	15,2	5,7	11,2		2	M3	13N	0.055Kg	M2,5
PAG-16-E-EW-DS	1-60-80-24-00-004	24	30	67	21	7	15		3	M5	38N	0.12Kg	M3
PAG-20-E-EW-DS	1-60-80-26-00-004	28	42	85	26,3	9	16,3		5	M5	57N	0.24Kg	M4
PAG-25-E-EW-DS	1-60-80-28-00-004	34	52	103	33,3	12	19,3		7,0	M5	83N	0.435Kg	M5

PARALLEL GRIPPER EASY

PAG-E-LC Parallel Gripper easy







ADVANTAGES

- V1 - Query gripper open or closed with
- favourable standard C-slot cylinder sensor ZYS-4-300
- possible
- V2 - robust and precise design thanks to ball guides
- V3 - Open/close repeat accuracy ±0.01mm

REMARK

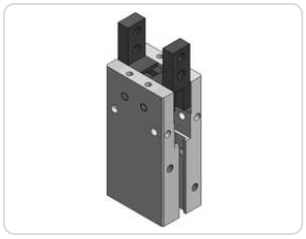
- Operating principle: Double-acting
- Operating pressure: 6 bar filtered and dried air
- use
- Mounting option using APG-E adapter
- Order cylinder sensor ZYS-4-300 separately
- Temperature range: 0 - 60°C

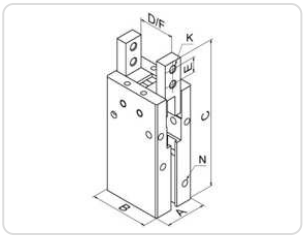
DESIGNATION	ITEM NO.	A	B	C	D	E	F	J	K	L	M	N	O	WEIGHT
PAG-10-E-LC	1-60-98-50-00-PAG	16	23	57	15,2	5,7	11,2	2	M2,5	20	20,4N	M3	10	0.06Kg
PAG-16-E-LC	1-60-98-52-00-PAG	23,2	31	67,3	20,9	7	14,9	3	M3	20	54N	M5	16	0.14Kg
PAG-20-E-LC	1-60-98-54-00-PAG	27,2	42	84,8	26,3	9	16,3	5	M4	45	79N	M5	20	0.24Kg
PAG-25-E-LC	1-60-98-56-00-PAG	33,2	52	102,7	33,3	12	19,3	7	M5	65	125N	M5	25	0.49Kg

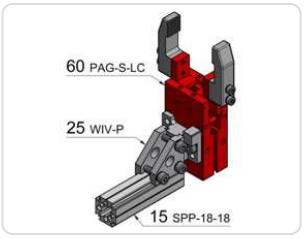
Legend: D = jaws moved apart (open) F = retracted (closed) jaws J = stroke per gripper jaw K = thread in the gripper jaw L = lever arm length M = gripping force (at 6 bar) gripping from the inside to the outside Gripping force 10N = 1kg N = air connection O = piston diameter

PARALLEL GRIPPER EASY

PAG-S-LC Parallel Gripper Simple Version







ADVANTAGES

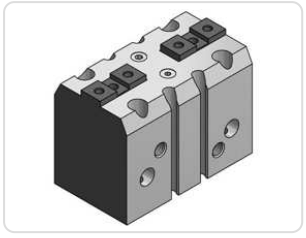
- V1 - Query gripper open or closed with inexpensive standard C-slot cylinder sensor ZYS-4-300 possible
- V2 - low-cost version

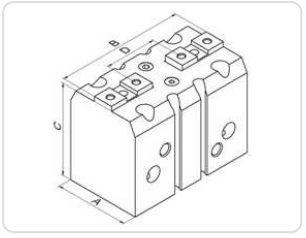
DESIGNATION	ITEM NO.	A	B	C	D	E	F	J	K	L	M	N	O	WEIGHT
PAG-10-S-LC	1-60-97-10-00-PAG	16	23	58	14	6	10	2	M3	20	11N	M3	10	0.12Kg
PAG-16-S-LC	1-60-97-12-00-PAG	22	34	73,5	23	8	15	4	M3	25	32N	M5	16	0.16Kg
PAG-20-S-LC	1-60-97-14-00-PAG	26	45	88,5	32	10	20	6	M4	50	55N	M5	20	0.55Kg
PAG-25-S-LC	1-60-97-16-00-PAG	32	52	103,5	35	12	21	7	M5	70	80N	M5	25	0.75Kg
PAG-32-S-LC	1-60-97-18-00-PAG	40	60	119	42	15	26	8	M6	80	110N	M5	32	1.23Kg

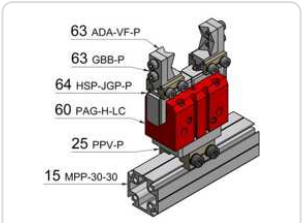
Legend: D = jaws moved apart (open) F = retracted (closed) jaws J = Stroke per gripper jaw K = Thread in the gripper jaw L = lever arm length M = Gripping force (at 6 bar) gripping from the inside to the outside Gripping force 10N = 1kg N = Air connection O = Piston diameter

PARALLEL GRIPPER EASY

PAG-H-LC Parallel Gripper Heavy Version







ADVANTAGES

- V1 – robust T-slot slide guide for precise
- handling of different workpieces
- V2 - attachment possible on several sides
- V3 - Query gripper open/closed with
- inductive sensor INS-4-2000 possible
- V4 - Centring via pins between parallel gripper PAG-H-LC
- and adapter plate ADA-PAG-H-LC

REMARK

- Operating pressure: 6 bar filtered and dried
- air
- Mounting option: Adapter plate ADA-PAG-H-LC
- Inductive proximity switch INS-4-2000 order separately

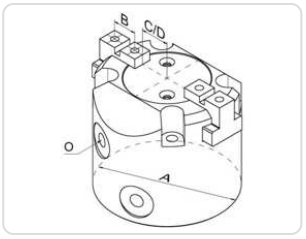
DESIGNATION	ITEM NO.	A	B	C	D	E	G	H	I	J	WEIGHT
PAG-20-H-LC	1-60-99-02-00-PAG	30	52	37	21	29	4	94N	84N	M3	0.14Kg
PAG-25-H-LC	1-60-99-06-00-PAG	36	64	43	30	42	6	148N	134N	M4	0.28Kg
PAG-32-H-LC	1-60-99-10-00-PAG	42	80	50	38	54	8	245N	221N	M5	0.48Kg
PAG-40-H-LC	1-60-99-14-00-PAG	50	100	57	48	68	10	451N	402N	M6	0.87Kg

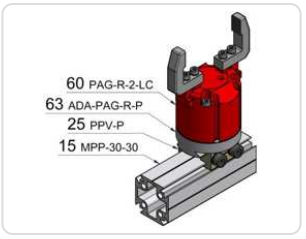
Legend: D = Pitch dimension with retracted jaws E = Stitch dimension with jaws moved apart G = Stroke per gripper jaw H = Gripping force inside gripping I = Gripping force external gripping Gripping force (30 mm lever arm, 5 bar) Gripping force 10N = 1kg J = Air connection

PARALLEL GRIPPER EASY

PAG-R-2-LC Parallel Gripper Round 2 Fingers







ADVANTAGES

- V1 - 2 gripper fingers - centric gripping
- V2 - Sliding guide
- V3 - Standard mounting options
- V4 - Query gripper jaw position possible
- V5 - Repeat accuracy +/- 0.025mm

REMARK

- Query with cylinder sensor ZYS-3,7-300-S
- or ZYS-3,7-2500-K possible
- Operating principle: Double-acting
- Operating pressure: max. 6 bar Use filtered and dried air

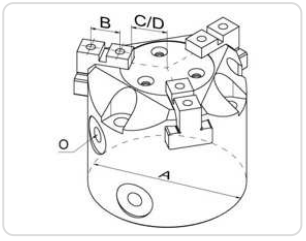
DESIGNATION	ITEM NO.	A	B	C	D	I	L	M	N	O	WEIGHT
PAG-R-2-25-LC	1-60-98-10-00-PAG	42	8	10	13	25	3	40N	42N	M5	0.136Kg
PAG-R-2-40-LC	1-60-98-14-00-PAG	62	12	12	16	40	4	173N	180N	M5	0.351Kg

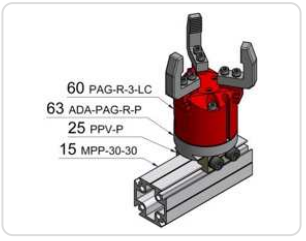
Legend: C = Jaw closed D = Jaw open I = Piston diameter L = Opening travel per jaw M = Gripping force external gripping N = Gripping force inside gripping Holding force per jaw (30 mm lever arm, 5 bar) Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER EASY

PAG-R-3-LC Parallel Gripper Round 3 Finger







ADVANTAGES

- V1 - 3 gripper fingers - centric gripping
- V2 - Sliding guide
- V3 - Standard mounting options
- V4 - Query gripper jaw position possible
- V5 - Repeat accuracy +/- 0.025mm

REMARK

- Query with cylinder sensor ZYS-3,7-300-S
- or ZYS-3,7-2500-K possible
- Operating principle: Double-acting
- Operating pressure: max. 6 bar Use filtered and dried air

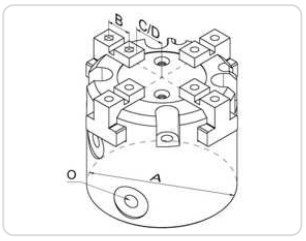
DESIGNATION	ITEM NO.	A	B	C	D	I	L	M	N	O	WEIGHT
PAG-R-3-25-LC	1-60-98-22-00-PAG	42	8	10	13	25	3	26N	28N	M5	0.144Kg
PAG-R-3-40-LC	1-60-98-26-00-PAG	62	12	12	16	40	4	115N	120N	M5	0.373Kg

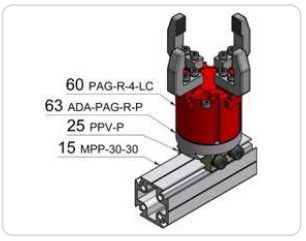
Legend: C = Jaw closed D = Jaw open I = Piston diameter L = Opening stroke per jaw M = Gripping force external gripping N = Gripping force inside gripping Holding force per jaw (30 mm lever arm, 5 bar) Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER EASY

PAG-R-4-LC Parallel Gripper Round 4 Finger







ADVANTAGES

- V1 - 4 gripper fingers - centric gripping
- V2 - Sliding guide
- V3 - Standard mounting options
- V4 - Query gripper jaw position possible
- V5 - Repeat accuracy +/- 0.025mm

REMARK

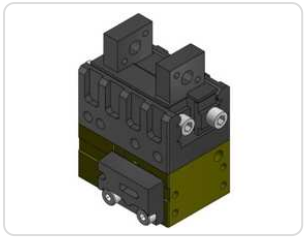
- Query with cylinder sensor ZYS-3,7-300-S
- or ZYS-3,7-2500-K possible
- Operating principle: Double-acting
- Operating pressure: max. 6 bar Use filtered and dried air

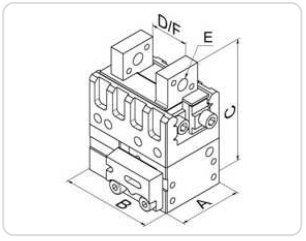
DESIGNATION	ITEM NO.	A	B	C	D	I	L	M	N	O	WEIGHT
PAG-R-4-25-LC	1-60-98-34-00-PAG	42	8	10	13	25	3	20N	21N	M5	0.156Kg
PAG-R-4-40-LC	1-60-98-38-00-PAG	62	12	12	16	40	4	86N	90N	M5	0.401Kg

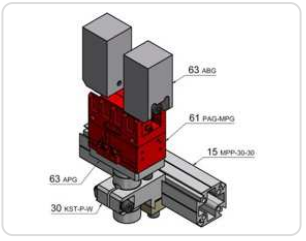
Legend: C = Jaw closed D = Jaw open I = Piston diameter L = Opening stroke per jaw M = Gripping force external gripping N = Gripping force inside gripping Holding force per jaw (30 mm lever arm, 5 bar) Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER SCHUNK

PAG-MPG Parallel Gripper SCHUNK







ADVANTAGES

- V1 - Robust design
- V2 - Query gripper open/closed possible
- V3 - Centring via centring bushing between
- parallel gripper PAG and adapter APG-MPG-P

REMARK

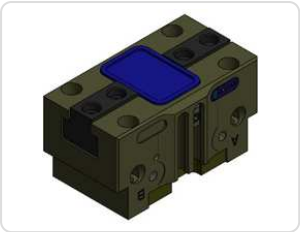
- Operating principle: double-acting
- Operating pressure: use 6 bar filtered and dried
- air
- Fastening option using APG-MPG-P
- PAG-16: Lateral scanning with 2 sensors
- IN3-S-M8-PNP open/closed
- PAG-20: Lateral scanning with 2 sensors
- INS-4-2000 open/closed
- PAG-25/MPG-plus25 to PAG-64/MPG-plus64:
- Query with teachable sensor ZYS-TE-3.8-3-500-S
- Order inductive sensors
- separately
- Use of a freely programmable position
- sensor with evaluation electronics POS possible,
- (PAG-40 to -64 in standard version and PAG-20
- to -32 special)

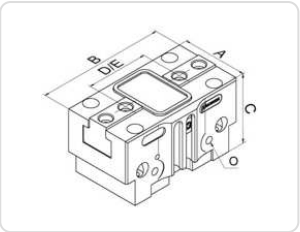
DESIGNATION	ITEM NO.	A	B	C	D	E	F	L	M	N	WEIGHT	X
PAG-16/ MPG-plus 16	1-60-80-00-00-PAG	13	16	29	10	M3	7	1,5	20N	M2,5	0.038Kg	INS-3-S-M8-PNP
PAG-20	1-60-80-02-00-PAG	16	20	33	13	M4	9	2	25N	M3	0.038Kg	INS-4-2000
PAG-25 / MPG-plus 25	1-60-80-04-00-PAG	18	26	35	17	M4	11	3	35N	M3	0.056Kg	ZYS-TE
PAG-32	1-60-80-06-00-PAG	22	32	44	22	M5	14	4	80N	M5	0.114Kg	ZYS-TE
PAG-40	1-60-80-08-00-PAG	26	40	52	28	M5	16	6	135N	M5	0.196Kg	ZYS-TE
PAG-50 / MPG-plus 50	1-60-80-10-00-PAG	30	50	60	34	M6	18	8	215N	M5	0.333Kg	ZYS-TE
PAG-64	1-60-80-12-00-PAG	35	64	72	44	M8	24	10	300N	M5	0.6Kg	ZYS-TE

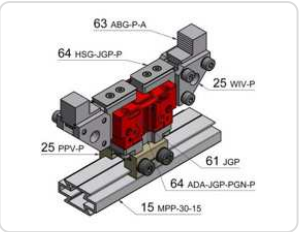
Legend: D = jaws moved apart (open) F = retracted (closed) jaws L = stroke per gripper jaw M = Closing force per jaw (20 mm lever arm, 6 bar) Gripping force 10N = 1kg N = Air connection X = inductive sensor

PARALLEL GRIPPER SCHUNK

JGP Parallel Gripper Heavy SCHUNK







ADVANTAGES

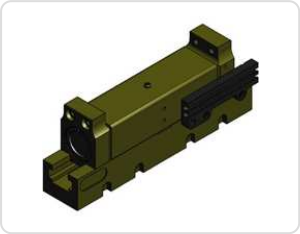
- V1 – resistant T-slot sliding guide for precise handling of different workpieces
- V2 – compact dimensions and low dead weight for minimised interfering contours during handling
- V3 – large torque absorption possible, therefore suitable for the use of long gripper fingers
- V4 – wedge hook principle for high force transmission and centric gripping
- V5 - attachment possible on several sides
- V6 - Query gripper open/closed possible
- V7 - Centring via centring bushes between
- parallel gripper JGP and adapter plate ADA-JGP

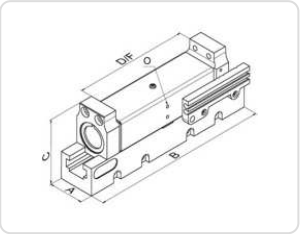
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	J	K	O	WEIGHT
JGP-40-1	1-61-04-50-00-JGP	24	45	24	21,5	26,5	50	2,5	123N	132N	0,01	M3	0.08Kg
JGP-P 64-1	1-61-04-59-00-JGP	36	76	39	28,5	40,5	90	6	350N	370N	0,01	M5	0.27Kg
JGP-80-1	1-61-04-62-00-JGP	42	80	49	37	53	100	8	415N	465N	0,01	M5	0.5Kg
JGP-P 64-1	1-61-04-67-00-JGP	50	120	55	47	67	145	10	870N	930N	0,01	M5	0.9Kg
JGP-125-1	1-61-04-70-00-JGP	60	125	63	61	87	160	13	1080N	1170N	0,01	G1/8	1.35Kg

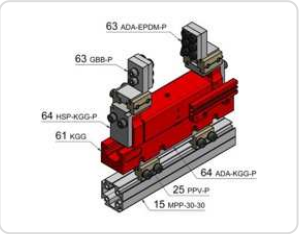
Legend: D = Pitch dimension with retracted jaws E = Pitch dimension with jaws moved apart F = Max. permissible finger length G = Stroke per gripper jaw H = Gripping force external gripping J = Gripping force inside gripping Gripping force per jaw (20mm lever arm, 6 bar) Gripping force 10N = 1kg K = Repeat accuracy (specified in mm) O = Air connection

PARALLEL GRIPPER SCHUNK

KGG Parallel Gripper with large Stroke SCHUNK







ADVANTAGES

- V1 – very robust T-slot guide for high torque absorption
- V2 - pneumatic 2-piston drive concept for direct
- power transmission and high efficiency
- V3 - rack and pinion principle for centric clamping
- V4 – narrow parallel gripper with large stroke
- V5 – attachment possible on several sides
- V6 - query gripper open/closed possible
- V7 - centring via centring bushes between
- parallel gripper KGG and adapter plate ADA-KGG

REMARK

- Operating principle: Double-acting
- Operating pressure: 6 bar filtered and dried
- air
- Mounting option: ADA-KGG adapter plate
- Please order cylinder sensor separately
- Use of a freely programmable position
- sensor with POS evaluation electronics possible
- Alternative: gripping force maintenance in case of pressure drop

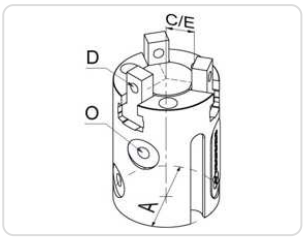
DESIGNATION	ITEM NO.	A	B	C	D	F	K	L	M	N	O	WEIGHT
KGG 60-20	1-61-06-10-00-KGG	18	61	36,4	36	56	42	10	40N	50N	M3	
KGG 60-40	1-61-06-12-00-KGG	18	81	36,4	56	96	42	20	40N	50N	M3	
KGG-70-24	1-61-06-14-00-KGG	22	78	43,5	43	67	50	12	57N	80N	M3	
KGG-70-48	1-61-06-16-00-KGG	22	102	43,5	67	115	50	24	57N	80N	M3	
KGG-80-30	1-61-06-18-00-KGG	26	80	51,4	53	83	80	15	125N	155N	M3	0.25Kg
KGG-80-60	1-61-06-20-00-KGG	26	127	51,4	83	143	80	30	125N	155N	M3	
KGG-100-40	1-61-06-22-00-KGG	31	100	60	61	101	80	20	170N	210N	M3	
KGG-100-80	1-61-06-24-00-KGG	31	157	60	101	181	80	40	170N	210N	M3	
KGG-140-60	1-61-06-26-00-KGG	36	140	68	81	141	100	30	250N	290N	M5	
KGG-220-90	1-61-06-28-00-KGG	52	220	86,5	113	203	130	45	395N	520N	M5	

Legend: D = retracted (closed) jaws F = jaws moved apart (open) K = Max. permissible finger length L = stroke per gripper jaw M = Gripping force external gripping N = Gripping force internal gripping Holding force per jaw (30 mm lever arm, 6 bar) Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER SCHUNK

MPZ Parallel Gripper 3 Fingers SCHUNK







ADVANTAGES

- V1 -T-slot guide for precise gripping with high load capacity
- V2 - particularly suitable for gripping small workpieces
- V3 - Query gripper open/closed possible
- V4 - Centring via centring bushes between
- 3-finger gripper MPZ and adapter plate ADA-MPZ

REMARK

- Operating principle: Double-acting
- Operating pressure: Use 6 bar filtered and dried air
- Mounting option: Adapter plate ADA-MPZ
- Inductive proximity switch INS-3-S-M8-PNP (size MPZ-16)
- Cylinder sensor with 90° plug ZYS-3.7-S-90° (size MPZ-20 to -30)
- Cylinder sensor ZYS-3.7-300-S or ZYS-3.7-S-90 (from size MPZ-38)
- Order separately
- Use of a freely programmable position
- sensor with POS evaluation electronics possible
- Alternative: Maintaining gripping force in case of pressure drop

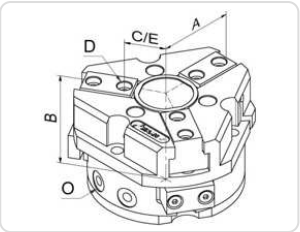
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	M	N	X	O
MPZ-16 Parallelgripper 3 Finger Schunk	1-61-08-10-00-MPZ	16	20	8	1,5	9	1	16	16N	20N	PSC-3	
MPZ-20 Paralellgripper 3 Finger Schunk	1-61-08-14-00-MPZ	20	27	8,5	2	10	1,5	20	22N	27N		M3
MPZ-25 Parallelgripper 3 Finger Schunk	1-61-08-18-00-MPZ	25	30	11	2,5	13	2	25	35N	40N		M3
MPZ-30 Parallelgripper 3 Finger Schunk	1-61-08-22-00-MPZ	30	32	13	3	16	3	30	55N	65N		M3
MPZ-38 Parallelgripper 3 Finger Schunk	1-61-08-26-00-MPZ	38	38	17	3	21	4	38	125N	145N		M3
MPZ-45 Parallelgripper 3 Finger Schunk	1-61-08-30-00-MPZ	45	43	20	4	25	5	45	235N	255N		M3

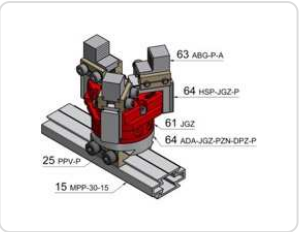
Legend: C = retracted (closed) jaw, dimension to centre E = extended (open) jaw, dimension to centre F = Stroke per gripper jaw G = Max. permissible finger length M = Gripping force external gripping N = Gripping force inside gripping Holding force per jaw (10mm lever arm, 6 bar) Gripping force 10N = 1kg O = Air connection X = Air connection suitable for hose ....

PARALLEL GRIPPER SCHUNK

JGZ Parallel Gripper 3 Fingers Heavy SCHUNK







ADVANTAGES

- V1 –resistant T-slot guide for precise
- handling of different workpieces
- V2 – compact dimensions and low dead weight for
- minimised interfering contours during handling
- V3 - Query gripper open/closed possible
- V4 - Centring via centring bushes between
- 3-finger gripper JGZ and adapter plate ADA-JGZ
- V5 – large torque absorption possible: suitable for
- the use of long gripper fingers
- V6 – wedge hook principle for high force transmission and
- synchronised gripping

REMARK

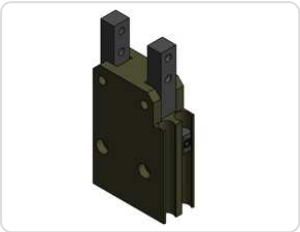
- Operating principle: Double-acting
- Operating pressure: 6 bar filtered and dried
- air
- Mounting option: Adapter plate ADA-JGZ
- Please order sensor separately
- Alternative: gripping force maintenance with pressure drop

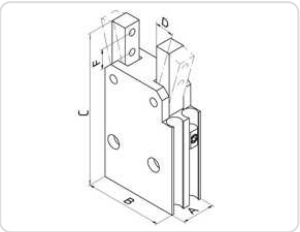
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	M	N	O
JGZ-40-1	1-61-10-30-00-JGZ	22	27,2	13	M2,5	15,5	2,5	50	245N	260N	M3
JGZ-50-1	1-61-10-34-00-JGZ	27	34	30,8	M3	34,8	4	64	325N	355N	M3
JGZ-64-1	1-61-10-38-00-JGZ	32,5	43,3	34,5	M4	40,5	6	80	580N	640N	M5
JGZ-80-1	1-61-10-42-00-JGZ	40,5	49,3	43	M5	51	8	100	1000N	1080N	M5
JGZ-100-1	1-61-10-46-00-JGZ	50,5	59,3	53,5	M6	63,5	10	125	1700N	2000N	G1/8

Legend: C = retracted (closed) jaw, dimension to centre E = extended (open) jaw, dimension to centre F = Stroke per gripper jaw G = Max. permissible finger length M = Gripping force external gripping N = Gripping force inside gripping Holding force per jaw (25 mm lever arm, 6 bar) Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER SCHUNK

SWG Angular Gripper 15° each Jaw





ADVANTAGES

- V1 –Narrow design therefore constructive possibility
- for gripper arrangement in series
- V2 – Spring-supported gripping force retention holds the
- workpiece in case of pressure loss
- V3 - Query gripper open/closed possible
- V4 - Centring via centring bushes between
- Angular gripper SWG and adapter plate ADA-SWG
- V5 - Wedge hook principle for high force transmission and
- synchronised gripping
- V6 – Lightweight and compact design for space-saving
- handling without interfering contours

REMARK

- Operating principle: Double-acting
- Operating pressure: 6 bar filtered and dried
- air
- Mounting option: Adapter plate ADA-SWG
- Alternative: gripping force maintenance with pressure drop

DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	X	O
SWG-10	1-61-14-10-00-SWG	5	10,5	21	15°	10	3	4N	5	PSC-3	
SWG-12	1-61-14-12-00-SWG	6,5	13	26	15°	12	4	3,4N	6	PSC-3	

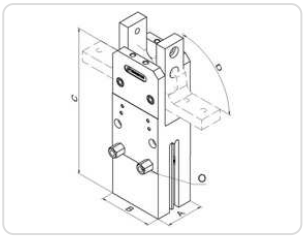
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	X	O
SWG-16	1-61-14-14-00-SWG	8	19	38	15°	15	5	5,5N	7,5		M3
SWG-20	1-61-14-16-00-SWG	10	23,5	46	15°	18	6	9N	9		M3
SWG-25	1-61-14-18-00-SWG	12	28	56	15°	22	7	12N	11		M3
SWG-32	1-61-14-20-00-SWG	16	35	65	15°	28	9	21N	14		M5
SWG-40	1-61-14-22-00-SWG	20	40	72	15°	35	12	50N	18		M5
SWG-50	1-61-14-24-00-SWG	25	50	92,5	15°	42	16	80N	20		M5

Legend: D = Opening angle per gripper jaw E = max. permissible finger length M = Gripping force external gripping Holding force per jaw (6 bar) N = Holding force measurement with lever arm length ... Gripping force 10N = 1kg O = Air connection X = Air connection suitable for hose ...

PARALLEL GRIPPER SCHUNK

PRG Angle Gripper 90° each Jaw SCHUNK





ADVANTAGES

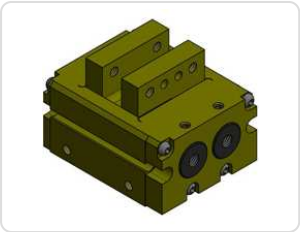
- V1 - Cycle time optimised thanks to innovative damping integrated directly in the drive train
- V2 - max. power density for higher closing torques, longer and more stable gripper fingers
- V3 - Query gripper open/closed possible
- V4 - Centring via centring bushes between angular gripper PRG and adapter plate ADA-PRG
- V5 - Many options available: with mechanical gripping force retention, high-temperature version, opening angle variants of 30°, 60° and 90°

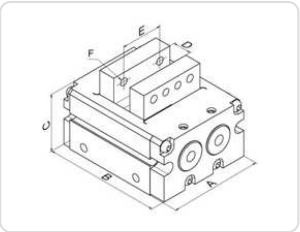
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	O
PRG 26-90	1-61-16-10-00-PRG	22	26	76	90°	40	60N	20	M3
PRG 34-90	1-61-16-16-00-PRG	26	34	93	90°	60	80N	30	M3
PRG 42-90	1-61-16-22-00-PRG	30	42	116	90°	80	140N	40	M5
PRG 52-90	1-61-16-28-00-PRG	36	52	138	90°	100	230N	50	M5
PRG 64-90	1-61-16-34-00-PRG	42	64	170	90°	125	325N	60	M5
PRG 80-90	1-61-16-40-00-PRG	50	80	166	90°	160	500N	80	G1/8

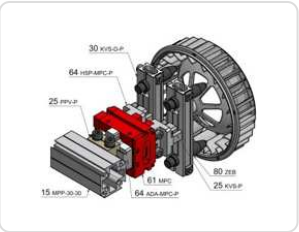
Legend: D = Opening angle per gripper jaw E = max. permissible finger length M = Gripping force external gripping Holding force per jaw (6 bar) N = Holding force measurement with lever arm length Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER SCHUNK

MPC Parallel Gripper with a Flat Guidance







ADVANTAGES

- V1 – simply designed 2-finger parallel gripper with
- good price-performance ratio
- V2 – cost-efficient basic gripper with basic functionalities
- Especially suitable for simple applications in small parts handling
- V3 – Housing and guide made of high-strength aluminium,
- therefore load-bearing and weight-optimised

REMARK

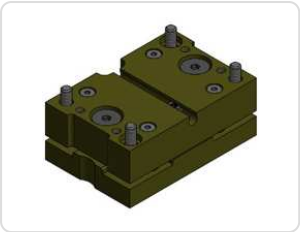
- Drive: by pneumatic double-piston system
- Guide: cost-effective flat guide
- Operating principle: double-acting
- Operating pressure: 6bar use filtered and dried
- air
- Accessories:
- Mounting option: ADA-MPC adapter plate
- Please order cylinder sensor separately
- Additional module: SDV-P pressure maintenance valve available separately

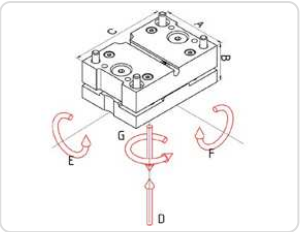
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	O	WEIGHT
MPC-025	1-61-18-10-00-MPC	25	36	24	0-5	13	M2,5	2,5	16N	M3	0.14Kg
MPC-040	1-61-18-14-00-MPC	40	50	35,5	0-8	18	M4	4	50N	M5	0.14Kg
MPC-075	1-61-18-18-00-MPC	40	75	37	0-15	18	M4	7,5	110N	M5	0.14Kg
MPC-100	1-61-18-22-00-MPC	46	92	43	0-20	22	M5	10	170N	M5	0.14Kg

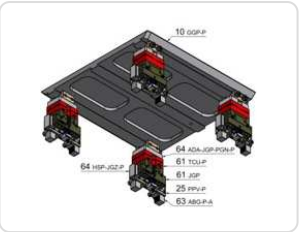
Legend: G = Stroke per jaw H = Opening and closing force Holding force per jaw Gripping force 10N = 1kg O = Air connection

PARALLEL GRIPPER SCHUNK

TCU-P Toleranz Compensation Unit







ADVANTAGES

- V1 - Compensation of workpiece-related tolerances
- and positional accuracy reduces the risk of
- jamming, necessary assembly forces are
- reduced and wear on the workpiece and
- handling device is minimised
- V2 - The compensation of the TCU-P is based on elastomers,
- which compensate in all directions and thus also
- correct angular errors and produce
- rotation compensation
- V3 –Optionally, a pneumatic locking device is available,
- with which the compensation unit can be rigidly locked.
- This prevents the tool or gripper from vibrating
- when the robot arm is moved

REMARK

- We offer the tolerance compensation unit variant
- without pneumatic locking
- Other designs with pneumatic locking
- and monitoring of the locking can be selected
- Operating pressure: 6bar use filtered and dried
- air
- The specified forces and torques are
- maximum values in the unlocked state and may
- occur simultaneously. In the locked state, only
- the loads caused by the dead weight
- and accelerations are permissible.

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J
TCU-P-050-3-OV	1-61-50-10-00-TCU	30	18,6	42	500N	5Nm	15Nm	15Nm	1°	1°	1,5
TCU-P-064-3-OV	1-61-50-14-00-TCU	36	22,7	52	1100N	10Nm	25Nm	30Nm	1°	1°	1,5°
TCU-P-080-3-OV	1-61-50-18-00-TCU	42	24,5	63	1500N	12Nm	30Nm	40Nm	1°	1,5°	2°
TCU-P-100-3-OV	1-61-50-22-00-TCU	50	26	81	2000N	25Nm	60Nm	60Nm	1°	1,5°	1,2°
TCU-P-125-3-OV	1-61-50-26-00-TCU	60	28,9	100	2800N	50Nm	120Nm	100Nm	1°	1,5°	1,5°
TCU-P-160-3-OV	1-61-50-30-00-TCU	72	34,2	125	4300N	70Nm	160Nm	120Nm	1°	2°	1,5°

Legend: D = maximum force in N E = max. torque in Nm F = max. torque in Nm G = max. torque in Nm H = Deflection F I = Deflection E J = Deflection G

IPR PARALLEL GRIPPER

Parallel grippers – CGS





OPTION

- Link to suitable adapter plates ...

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
CGS-2-40	1-61-60-10-00-CGS	64	24	28,7	117N	128N	2,5	70	0,64kg	M3

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
CGS-2-50	1-61-60-16-00-CGS	65	30	31	163N	177N	4	85	0,8kg	M5
CGS-2-64	1-61-60-22-00-CGS	76	36	39	295N	326N	6	105	1,5kg	M5

Legend: A = Length (mm) B = Width (mm) C = Height (mm) D = Gripping force (outer grip) (at 6 bar) E = Gripping force (internal grip) (at 6 bar) F = Stroke per jaw (mm) G = Max. finger length (mm) H = recommended handling weight (at 10mm clearance) I = Air connection

IPR PARALLEL GRIPPER

3-jaw gripper – CGS3





DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
CGS-3-40	1-61-60-50-00-CGS	55,8	48,5	27,2	255N	280N	2,5	57,5	0,1kg	M3
CGS-3-50	1-61-60-56-00-CGS	72,2	63	34	335N	370N	4	72,5	0,18kg	M3
CGS-3-64	1-61-60-62-00-CGS	84,3	75,1	43,3	640N	690N	6	90	0,35kg	M3

PARALLEL GRIPPER ELECTRIC

EPG Electric Parallel Gripper



DESIGNATION	ITEM NO.
EPG-8-14	1-60-84-50-00-EPG
EPG-15-26	1-60-84-58-00-EPG
EPG-50-40	1-60-84-66-00-EPG

PARALLEL GRIPPER ELECTRIC

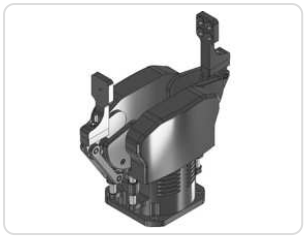
EPG-MRK Electric Parallel Gripper MRK

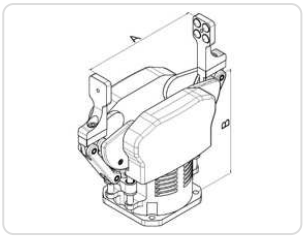


DESIGNATION	ITEM NO.
EPG-MRK-140-50	1-60-84-10-00-EPG

PARALLEL GRIPPER ELECTRIC

EPG-MRK-2-GH Electric parallel gripper for MRK 2-finger large stroke



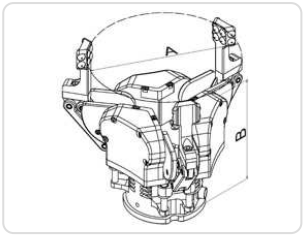


DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
EPG-MRK-2-100-128-GH	1-60-86-10-00-EPG	128	116	100N	5kg	1.25Kg

PARALLEL GRIPPER ELECTRIC

EPG-MRK-3-GH Electric parallel gripper for MRK 3-finger large stroke





REMARK

- Application:

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
EPG-MRK-3-100-150-GH	1-60-86-20-00-EPG	150	117	100N	10-150	5kg	1.45Kg

PARALLEL GRIPPER ELECTRIC

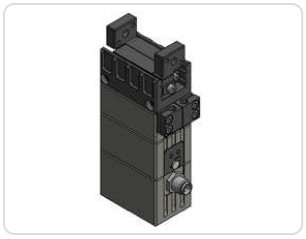
EPG-RO Electric Parallel Gripper Rotary

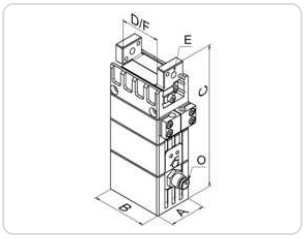


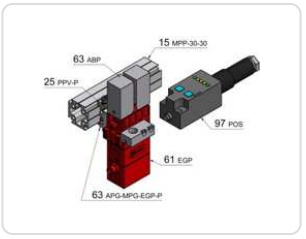
DESIGNATION	ITEM NO.
EPG-RO-5-14	1-60-85-10-00-EPG

PARALLEL GRIPPER ELECTRIC

EGP Electrical Parallel Gripper SCHUNK







ADVANTAGES

- V1 - Query gripper open or closed with
- favourable standard C-slot cylinder sensor ZYS-4-300
- possible
- V2 - Robust design and compact construction
- V3 - highest power density for the use of
- smaller sizes
- V4 - digital control via binary signals for
- simple commissioning and quick integration
- into existing systems
- V5 - two- to four-stage adjustable gripping force for
- easy adaptation to sensitive workpieces
- V6 - backlash-free preloaded cross roller guide for precise
- and almost force-constant gripping over the entire
- permissible finger length
- V7 - very high max. number of cycles per minute

REMARK

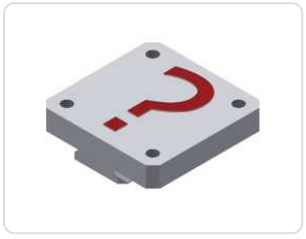
- Operating principle: Double-acting
- Mounting option: Adapter for parallel gripper
- easy APG-EGP
- Order cylinder sensor ZYS-4-300 separately
- Optional: Cover for guide

DESIGNATION	ITEM NO.	A	B	C	D	E	F	K	L	M	O
EGP-25	1-61-30-10-00-EGP	18	26,5	72,7	11	M4	17	32	3	20/40N	M8×1
EGP-40	1-61-30-12-00-EGP	26	40	88,4	16	M5	28	50	6	35/140N	M8×1
EGP-50	1-61-30-14-00-EGP	30	50	104,4	18	M6	34	64	8	54/215N	M8×1

Legend: D = retracted (closed) jaws F = jaws moved apart (open) K = max. permissible finger length L = stroke per gripper jaw M = min./max. gripping force Gripping force 10N = 1kg O = electrical connection

CONNECTIVITY PRECIGRIP

ADP Adapter Plate - Foreign Gripper

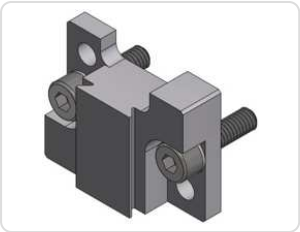


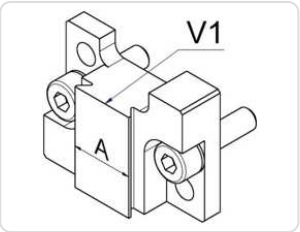
We can also manufacture the adapter plates for your active element supplier on request. Such as:

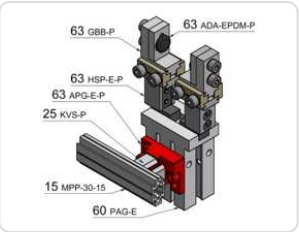
DESIGNATION	ITEM NO.	A
ADP-P13-FG	1-63-88-10-00-ADP	P13
ADP-P22-FG	1-63-88-16-00-ADP	P22

CONNECTIVITY PRECIGRIP

APG-E-P Adapter for PAG-E prism







ADVANTAGES

- V1 - Parallel gripper PAG-E can be easily integrated into the
- PreciGrip system

REMARK

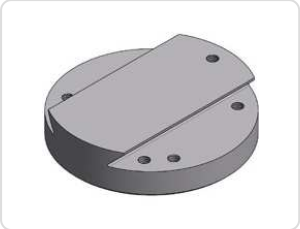
- The images above are only an example, the originals may differ
- may differ in contour from the pictures

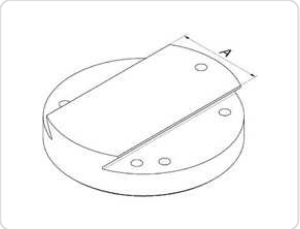
DESIGNATION	ITEM NO.	A	WEIGHT	X
APG-6-E-P13	1-63-30-40-00-APG	P13	0.01Kg	PAG-6-E
APG-10-E-P13	1-63-30-42-00-APG	P13	0.013Kg	PAG-10-E
APG-16-E-P13	1-63-30-44-00-APG	P13	0.018Kg	PAG-16-E
APG-20-E-P22	1-63-30-46-00-APG	P22	0.035Kg	PAG-20-E
APG-25-E-P22	1-63-30-48-00-APG	P22		PAG-25-E

Legend: X = suitable for ...

CONNECTIVITY PRECIGRIP

ADA-PAG-R-P Adapter plate for Parallel Gripper







ADVANTAGES

- V1 - with centring for parallel grippers

REMARK

- Material: Aluminium
- Scope of delivery:
- incl. fastening material

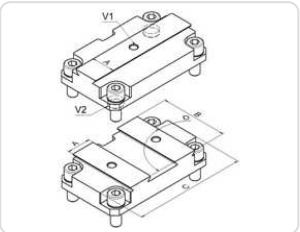
DESIGNATION	ITEM NO.	A	X
ADA-PAG-R-25-P22	1-63-99-10-00-ADA	P22	PAG-R-X-25-LC
ADA-PAG-R-40-P22	1-63-99-12-00-ADA	P13	PAG-R-X-40-LC
ADA-PAG-R-40-P22	1-63-99-14-00-ADA	P22	PAG-R-X-40-LC

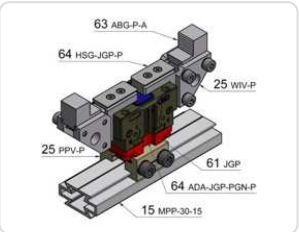
Legend: X = suitable for .....

CONNECTIVITY PRECIGRIP

ADA-JGP-PGN-P Adapter plate for JGP and PGN







ADVANTAGES

- V1 - with locating hole as centring aid
- V2 - with centring for parallel grippers

REMARK

- Scope of delivery:
- Including fixing material
- Please use the entire length of the clamping prism for fastening

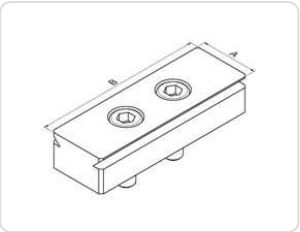
DESIGNATION	ITEM NO.	A	B	C	D	O	X	WEIGHT
ADA-JGP-PGN-40-P22-0	1-64-04-50-00-ADA	P22	24	45	0°	PGN-40	JGP-40	
ADA-JGP-PGN-64-P22-0	1-64-04-58-00-ADA	P22	36	70	0°	PGN-64	JGP-64	0.066Kg
ADA-JGP-PGN-80-P22-0	1-64-04-62-00-ADA	P22	42	87	0°	PGN-80	JGP-80	

Legend: O = suitable for PGN-..... X = suitable for JGP-.....

CONNECTIVITY PRECIGRIP

HSP-E-JGP-P Holding piece Easy with prism for JGP





ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip products can be easily attached to the parallel grippers JGP
- V2 - with centring for parallel grippers JGP and PGN

REMARK

- Please use the entire length of the clamping prism

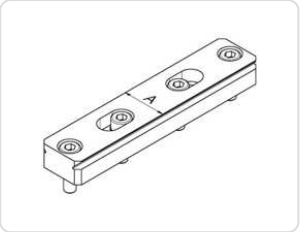
DESIGNATION	ITEM NO.	A	B	O	X	WEIGHT
HSP-E-JGP-40-P13	1-64-51-50-00-HSP	P13	24	PGN+40	JGP-40	
HSP-E-JGP-50-P13	1-64-51-54-00-HSP	P13	32	PGN+50	JGP-50	
HSP-E-JGP-64-P22	1-64-51-58-00-HSP	P22	37	PGN+64	JGP-64	
HSP-E-JGP-80-P22	1-64-51-62-00-HSP	P22	48	PGN+80	JGP-80	
HSP-E-JGP-100-P22	1-64-51-66-00-HSP	P22	62	PGN+100	JGP-100	
HSP-E-JGP-125-P22	1-64-51-70-00-HSP	P22	80	PGN+125	JGP-125	0.066Kg

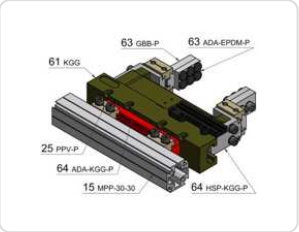
Legend: O = suitable for PGN-..... X = suitable for JGP-.....

CONNECTIVITY PRECIGRIP

ADA-KGG-P Adapter plate for KGG-P







ADVANTAGES

- V1 - with centring for parallel grippers

REMARK

- Please use the entire length of the clamping prism
- of the clamping prism

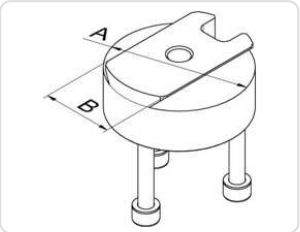
DESIGNATION	ITEM NO.	A	O	WEIGHT	X
ADA-KGG-60-70-P13	1-64-06-10-00-ADA	P13	KGG-60	999999Kg	KGG-70
ADA-KGG-80-P22	1-64-06-18-00-ADA	P22	KGG-80	0.004Kg	-
ADA-KGG-100-140-P22	1-64-06-24-00-ADA	P22	KGG-100	999999Kg	KGG-140
ADA-KGG-220-P22	1-64-06-28-00-ADA	P22	KGG-220	999999Kg	-

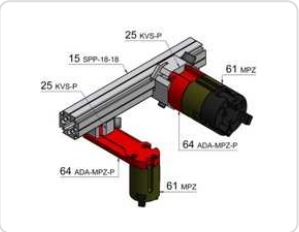
Legend: O = suitable for ..... X = suitable for .....

CONNECTIVITY PRECIGRIP

ADA-MPZ-P Adapter Plate for MPZ







ADVANTAGES

- V1 - with centring for 3-finger gripper

REMARK

- can only be used with teachable sensor ZYS-TE-3.8-3-600-S
- usable
- Depending on the size of the MPZ, the adapters vary in design
- (see application example)

DESIGNATION	ITEM NO.	A	B	X
ADA-MPZ-16-P13	1-64-08-10-00-ADA	16	P13	MPZ-16
ADA-MPZ-20-P13	1-64-08-14-00-ADA	20	P13	MPZ-20
ADA-MPZ-25-P13	1-64-08-18-00-ADA	25	P13	MPZ-25
ADA-MPZ-30-P13	1-64-08-22-00-ADA	30	P22	MPZ-30

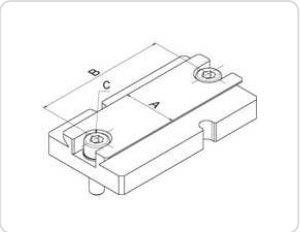
DESIGNATION	ITEM NO.	A	B	X
ADA-MPZ-38-P22	1-64-08-26-00-ADA	38	P22	MPZ-38
ADA-MPZ-45-P22	1-64-08-30-00-ADA	45	P22	MPZ-45

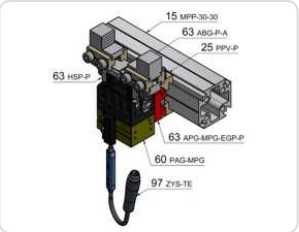
Legend: X = suitable for .....

CONNECTIVITY PRECIGRIP

APG-MPG-EGP-P Adapter for PAG-MPG prism and EGP







ADVANTAGES

- V1 - Parallel grippers PAG and EGP can be easily integrated into the PreciGrip system
- V2 - maximum accuracy
- V3 - Centring of the parallel gripper is adopted

REMARK

- Material: Aluminium
- The illustrations above are only an example, the originals may
- differ in contour from the pictures
- Scope of delivery:
- incl. mounting material

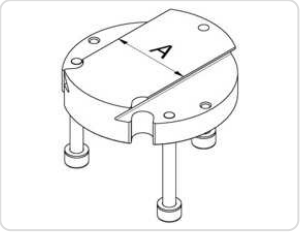
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APG-MPG+20-P13	1-63-30-10-00-APG	P13	15	M2,5	0.008Kg	MPG+20
APG-MPG+EGP-25-P13	1-63-30-12-00-APG	P13	20	M3	0.011Kg	MPG+25 / EGP25
APG-MPG+32-P22	1-63-30-14-00-APG	P22	25	M4	0.022Kg	MPG+32
APG-MPG+EGP-40-P22	1-63-30-16-00-APG	P22	32	M4	0.029Kg	MPG+40 / EGP40
APG-MPG+EGP-50-P22	1-63-30-18-00-APG	P22	40	M5	0.047Kg	MPG+50 / EGP50
APG-MPG+64-P22	1-63-30-20-00-APG	P22	52	M5	0.065Kg	MPG+64
APG-MPG+16-P13	1-64-02-10-00-APG	P13	12	M2		MPG+16

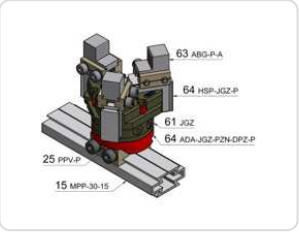
Legend: X = suitable for ...

CONNECTIVITY PRECIGRIP

ADA-JGZ-PZN-DPZ-P Adapter Plate for JGZ, PZN and DPZ







ADVANTAGES

- V1 - with centring for JGZ, PZN and DPZ

REMARK

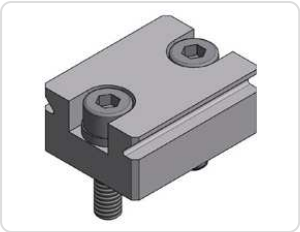
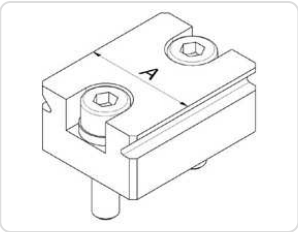
- Please use the entire length of the clamping prism
- of the clamping prism

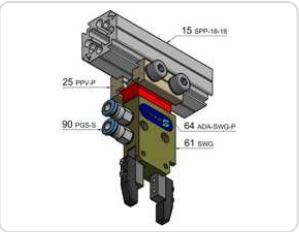
DESIGNATION	ITEM NO.	A	N	O	X
ADA-JGZ-PZN-DPZ-40-1-P22	1-64-10-30-00-ADA	P22	DPZ-40	PZN-40	JGZ-40
ADA-JGZ-PZN-DPZ-50-1-P22	1-64-10-34-00-ADA	P22	DPZ-50	PZN-50	JGZ-50
ADA-JGZ-PZN-DPZ-64-1-P22	1-64-10-38-00-ADA	P22	DPZ-64	PZN-64	JGZ-64
ADA-JGZ-PZN-DPZ-80-1-P22	1-64-10-42-00-ADA	P22	DPZ-80	PZN-80	JGZ-80
ADA-JGZ-PZN-DPZ-100-1-P22	1-64-10-46-00-ADA	P22	DPZ-100	PZN-100	JGZ-100

Legend: N = suitable for DPZ-..... O = suitable for PZN-..... X = suitable for JGZ-.....

CONNECTIVITY PRECIGRIP

ADA-SWG-P Adapter plate for SWG



ADVANTAGES

- V1 - with centring for SWG angle gripper 15° per jaw

REMARK

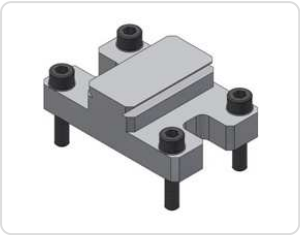
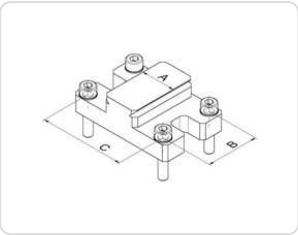
- No query is possible when fastening with ADA-SWG
- (from version SWG-16 and larger)

DESIGNATION	ITEM NO.	A	X
ADA-SWG-10-P13	1-64-14-10-00-ADA	P13	SWG-10
ADA-SWG-12-P13	1-64-14-12-00-ADA	P13	SWG-12
ADA-SWG-16-P13	1-64-14-14-00-ADA	P13	SWG-16
ADA-SWG-20-P13	1-64-14-16-00-ADA	P13	SWG-20
ADA-SWG-25-P22	1-64-14-18-00-ADA	P22	SWG-25
ADA-SWG-32-P22	1-64-14-20-00-ADA	P22	SWG-32
ADA-SWG-40-P2	1-64-14-22-00-ADA	P22	SWG-40
ADA-SWG-50-P22	1-64-14-24-00-ADA	P22	SWG-50

Legend: X = suitable for .....

CONNECTIVITY PRECIGRIP

ADA-PRG-P Adapter plate for PRG

ADVANTAGES

- V1 - with centring for PRG radial gripper 90° per jaw

REMARK

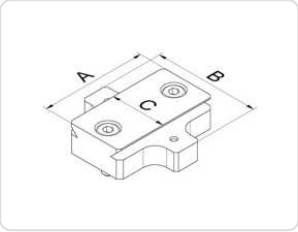
- Scope of delivery:
- Including fixing material

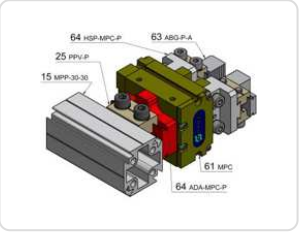
DESIGNATION	ITEM NO.	A	B	C	D	X
ADA-PRG-26-90-P13-0	1-64-16-10-00-ADA	P13	22	26	0°	PRG-26-90
ADA-PRG-34-90-P22-0	1-64-16-16-00-ADA	P22	26	34	0°	PRG-34-90
ADA-PRG-42-90-P22-0	1-64-16-22-00-ADA	P22	30	42	0°	PRG-42-90
ADA-PRG-52-90-P22-0	1-64-16-28-00-ADA	P22	36	52	0°	PRG-52-90
ADA-PRG-64-90-P22-0	1-64-16-34-00-ADA	P22	42	64	0°	PRG-64-90
ADA-PRG-80-90-P22-0	1-64-16-40-00-ADA	P22	50	80	0°	PRG-80-90

Legend: X = suitable for PRG-.....

CONNECTIVITY PRECIGRIP

ADA-MPC-P Adapter Platte with prism for MPC



ADVANTAGES

- V1 - with centring for parallel gripper MPC

REMARK

- Scope of delivery:
- Including fixing material

DESIGNATION	ITEM NO.	A	B	C	X	WEIGHT
ADA-MPC-025-P22	1-64-18-10-00-ADA	28	28	P22	MPC-025	

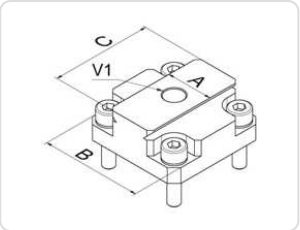
DESIGNATION	ITEM NO.	A	B	C	X	WEIGHT
ADA-MPC-040-P22	1-64-18-14-00-ADA	40	40	P22	MPC-040	
ADA-MPC-075-P22	1-64-18-18-00-ADA	56	40	P22	MPC-075	0.041Kg
ADA-MPC-100-P22	1-64-18-22-00-ADA	70	46	P22	MPC-100	

Legend: X = suitable for .....

CONNECTIVITY PRECIGRIP

ADA-SFL-P Adapter plate for SFL





ADVANTAGES
- V1 - with locating hole as centring aid
- V2 - with centring for SFL pivoting sash

REMARK
- Please use the entire length of the clamping prism
- of the clamping prism

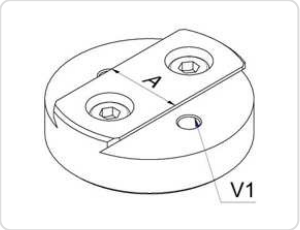
DESIGNATION	ITEM NO.	A	B	C	X
ADA-SFL-25-180-P13	1-64-40-10-00-ADA	P13	25	25	SFL-25-180
ADA-SFL-40-180-P22	1-64-40-20-00-ADA	P22	40	40	SFL-40-180
ADA-SFL-64-180-P22	1-64-40-30-00-ADA	P22	64	64	SFL-64-180

Legend: X = suitable for SFL-.....

CONNECTIVITY PRECIGRIP

KOP-SFL-P Head plate for SFL





ADVANTAGES
- V1 - with centring for SFL pivoting sash

REMARK
- Scope of delivery:
- Including fixing material

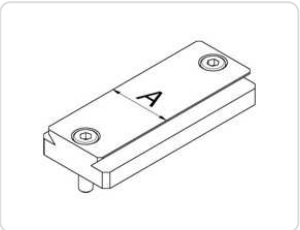
DESIGNATION	ITEM NO.	A	X
KOP-SFL-25-180-P13	1-64-40-50-00-KOP	P13	SFL-25
KOP-SFL-40-180-P22	1-64-40-60-00-KOP	P22	SFL-40
KOP-SFL-64-180-P22	1-64-40-70-00-KOP	P22	SFL-64

Legend: X = suitable for SFL-.....

CONNECTIVITY PRECIGRIP

ADA-SRU+P Adapter plate for SRUplus swivel unit plus





ADVANTAGES
- V1 - with centring for SRU-plus - universal swivel unit

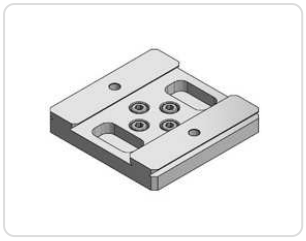
REMARK
- Please use the entire length of the clamping prism
- of the clamping prism

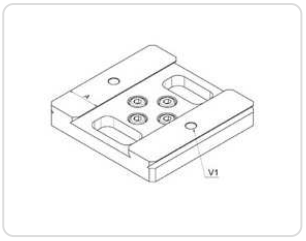
DESIGNATION	ITEM NO.	A	M	N	O	X
ADA-SRU+20-25-30-35-P22	1-64-42-10-00-ADA	P22	SRU+35	SRU+30	SRU+25	SRU+20
ADA-SRU+40-P22	1-64-42-50-00-ADA	P22	-	-	-	SRU+40

Legend: X = suitable for SRU-plus-.....

CONNECTIVITY PRECIGRIP

KOP-SRU+P Head plate for SRUplus





ADVANTAGES

- V1 - with locating hole as centring aid
- V2 - with centring for SRU-plus - universal swivel unit

REMARK

- Scope of delivery:
- Including fixing material

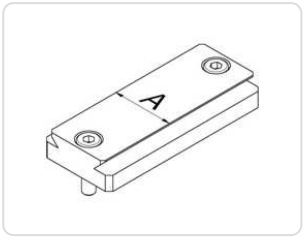
DESIGNATION	ITEM NO.	A	B	O	X
KOP-SRU+20-P13-3	1-64-43-10-00-KOP	P22	3	-	SRU+20
KOP-SRU+25-30-P22-2	1-64-43-20-00-KOP	P22	2	SRU+30	SRU+25
KOP-SRU+35-P22-2	1-64-43-40-00-KOP	P22	2	-	SRU+35
KOP-SRU+40-P22-2	1-64-43-50-00-KOP	P22	2	-	SRU+40

Legend: B = Number of prisms X = suitable for SRU-plus-.....

CONNECTIVITY PRECIGRIP

ADA-SRU-mini-P Adapter plate for SRU-mini





ADVANTAGES

- V1 - with centring for SRU-mini - miniature swivel unit

REMARK

- Please use the entire length of the clamping prism
- of the clamping prism

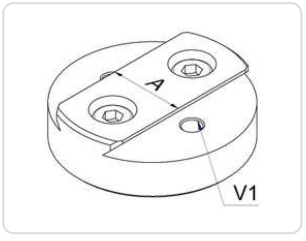
DESIGNATION	ITEM NO.	A	O	X
ADA-SRU-8.2-10.2-P22	1-64-46-10-00-ADA	P22	SRU-10.2	SRU-8.2
ADA-SRU-12.2-14.2-P22	1-64-46-20-00-ADA	P22	SRU-14.2	SRU-12.2

Legend: O = suitable for SRU-mini-..... X = suitable for SRU-mini-.....

CONNECTIVITY PRECIGRIP

KOP-SRU-mini-P Head plate for SRU-mini





ADVANTAGES

- V1 - with centring for SRU-mini - miniature swivel unit

REMARK

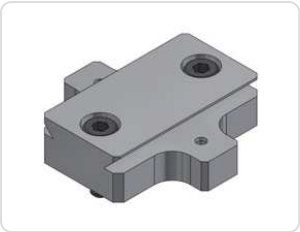
- Scope of delivery:
- Including fixing material

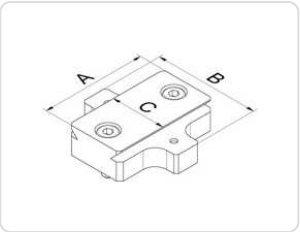
DESIGNATION	ITEM NO.	A	O	X
KOP-SRU-8.2-10.2-P13	1-64-46-30-00-KOP	P13	SRU-10.2	SRU-8.2
KOP-SRU-12.2-14.2-P13	1-64-46-40-00-KOP	P13	SRU-14.2	SRU-12.2

Legend: X = suitable for SRU-mini-.....

CONNECTIVITY PRECIGRIP

ADA diverse Adapter plates diverse





ADVANTAGES

- V1 - Here we offer you adapter plates for various
- SCHUNK elements, which allow easy mounting on the
- PreciGrip system

REMARK

- Prices on request! We offer graduated prices

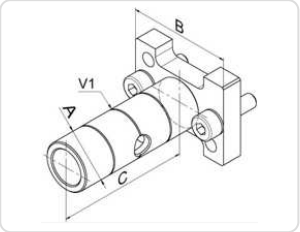
DESIGNATION	ITEM NO.	A	B	C	X
ADA-AGE-Z-2-50	1-64-94-01-00-ADA	64	64	P22	AGE-Z-2-50
ADA-AGE-Z-2-63	1-64-94-02-00-ADA	80	80	P22	AGE-Z-2-63
ADA-AGE-Z-2-80	1-64-94-03-00-ADA	105	100	P22	AGE-Z-2-80
ADA-PGF-50-P22	1-64-94-04-00-ADA	58	38	P22	PGF-50
ADA-PSH-32-P22	1-64-94-05-00-ADA	97	40	P22	PSH-32
ADA-SHA-050-P22-2	1-64-94-06-00-ADA	100	100	P22	SHA-050

Legend: X = suitable for SCHUNK element .....

CONNECTIVITY ROUND

APG-E Adapter for Parallel Gripper easy





ADVANTAGES

- V1 - Marking aid every 10 mm on the shaft for easy adjustment

REMARK

- Material: Aluminium
- Scope of delivery:
- incl. fastening material

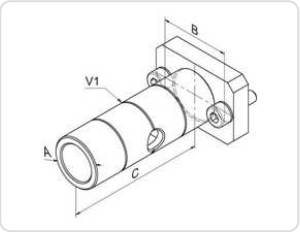
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APG-6-E-10-30	1-60-81-20-00-APG	10	20	30	0.012Kg	PAG-6-E
APG-10-E-10-30	1-60-81-22-00-APG	10	25	30	0.013Kg	PAG-10-E
APG-16-E-14-40	1-60-81-24-00-APG	14	31	40	0.024Kg	PAG-16-E
APG-20-E-20-50	1-60-81-26-00-APG	20	42	50	0.038Kg	PAG-20-E
APG-25-E-20-50	1-60-81-28-00-APG	20	52	50	0.054Kg	PAG-25-E

Legend: X = suitable for ...

CONNECTIVITY ROUND

APG Adapter for Parallel Gripper





ADVANTAGES

- V1 - with centring for parallel gripper
- V2 - Marking aid every 10 mm on the shaft for easy adjustment

REMARK

- Material: Aluminium
- Scope of delivery:
- incl. mounting material

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APG-20-10-30	1-60-81-02-00-APG	10	15	30	0.01Kg	PAG-MPG+20
APG-25-14-40	1-60-81-04-00-APG	14	20	40	0.016Kg	PAG-MPG+25
APG-32-14-40	1-60-81-06-00-APG	14	25	40	0.023Kg	PAG-MPG+32
APG-40-20-50	1-60-81-08-00-APG	20	32	50	0.04Kg	PAG-MPG+40

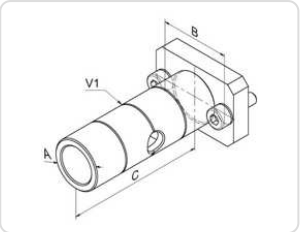
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APG-50-20-50	1-60-81-10-00-APG	20	40	50	0.05Kg	PAG-MPG+50
APG-64-20-50	1-60-81-12-00-APG	20	52	50	0.07Kg	PAG-MPG+64

Legend: X = suitable for .....

CONNECTIVITY ROUND

APG Adapter for Parallel Gripper





ADVANTAGES

- V1 - with centring for parallel gripper
- V2 - Marking aid every 10 mm on the shaft for easy adjustment

REMARK

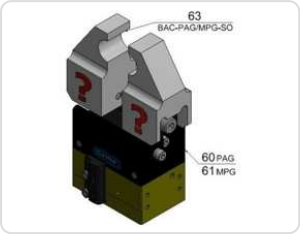
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

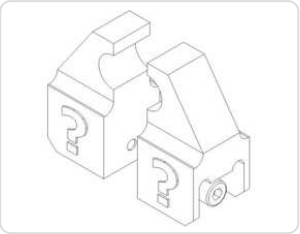
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APG-16-10-30	1-60-81-00-00-APG	10	12	30	0.009Kg	PAG-MPG+16
APG-20-10-30	1-60-81-02-00-APG	10	15	30	0.01Kg	PAG-MPG+20
APG-25-14-40	1-60-81-04-00-APG	14	20	40	0.016Kg	PAG-MPG+25
APG-32-14-40	1-60-81-06-00-APG	14	25	40	0.023Kg	PAG-MPG+32
APG-40-20-50	1-60-81-08-00-APG	20	32	50	0.04Kg	PAG-MPG+40
APG-50-20-50	1-60-81-10-00-APG	20	40	50	0.05Kg	PAG-MPG+50
APG-64-20-50	1-60-81-12-00-APG	20	52	50	0.07Kg	PAG-MPG+64

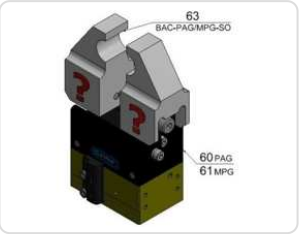
Legend: X = suitable for .....

GRIPPER JAWS

BAC-PAG-SO Spechial Gripping Jaw







REMARK

- Prices are for guidance only !

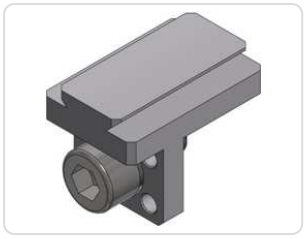
OPTION

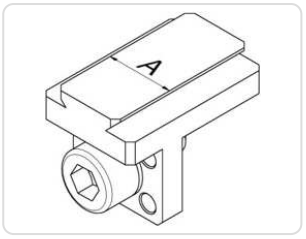
- - Standard 3D printed (polyamide)
- - Steel
- - Coating

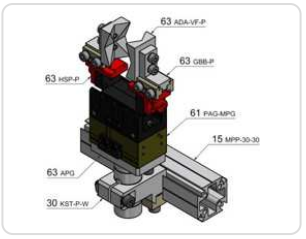
DESIGNATION	ITEM NO.	X
BAC-PAG-16-SO	1-63-57-10-00-000	PAG-16
BAC-PAG-20-SO	1-63-57-14-00-000	PAG-20
BAC-PAG-25-SO	1-63-57-18-00-000	PAG-25
BAC-PAG-32-SO	1-63-57-22-00-000	PAG-32
BAC-PAG-40-SO	1-63-57-26-00-000	PAG-40
BAC-PAG-50-SO	1-63-57-30-00-000	PAG-50
BAC-PAG-64-SO	1-63-57-34-00-000	PAG-64

GRIPPER JAWS

HSP-P Holder with prism for parallel gripper PAG-MPG+







ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip
- products can easily be attached to the
- parallel gripper PAG with this
- V2 - Material aluminium

INFO

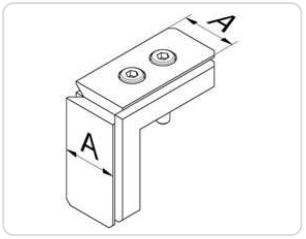
- Scope of delivery:
- Packing unit: PU = 2 pieces
- Price: 1 PU
- incl. mounting material

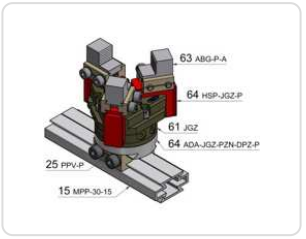
DESIGNATION	ITEM NO.	A	WEIGHT	X	O
HSP-16-P13	1-63-22-08-00-HSP	P13	0.002Kg	PAG-MPG+16	
HSP-20-P13	1-63-22-10-00-HSP	P13	0.002Kg	PAG-MPG+20	
HSP-25-P13	1-63-22-12-00-HSP	P13	0.002Kg	PAG-MPG+25	EGP 25
HSP-32-P13	1-63-22-14-00-HSP	P13	0.003Kg	PAG-MPG+32	
HSP-40-P13	1-63-22-16-00-HSP	P13	0.007Kg	PAG-MPG+40	EGP 40
HSP-50-P13	1-63-22-18-00-HSP	P13	0.008Kg	PAG-MPG+50	EGP 50
HSP-64-P13	1-63-22-20-00-HSP	P13	0.013Kg	PAG-MPG+64	

GRIPPER JAWS

HSP-JGZ-P Holding piece with prism for JGZ







ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip-
- products can be easily attached to the
- JGZ parallel grippers

REMARK

- Scope of delivery:
- Shipping unit: PU = 3 pieces
- Price: 1 PU
- Including fixing material

INFO

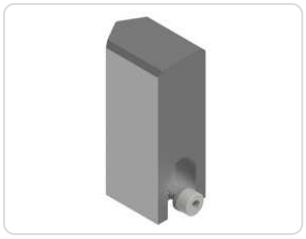
- Scope of delivery:
- Shipping unit: PU = 3 pieces
- Price: 1 PU
- incl. fixing material

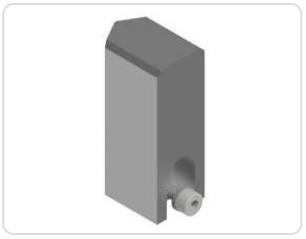
DESIGNATION	ITEM NO.	A	X
HSP-JGZ-40-P13	1-64-50-51-00-HSP	P13	JGZ-40
HSP-JGZ-50-P13	1-64-50-55-00-HSP	P13	JGP-50
HSP-JGZ-64-P22	1-64-50-59-00-HSP	P22	JGZ-64
HSP-JGZ-80-P22	1-64-50-63-00-HSP	P22	JGZ-80
HSP-JGZ-100-P22	1-64-50-67-00-HSP	P22	JGZ-100

Legend: X = suitable for parallel gripper JGZ- ...

GRIPPER JAWS

ABR-MPZ Adapterjaws blanks for MPZ





ADVANTAGES

- V1 - simple production of customised gripper jaws for parallel grippers MPZ
- V2 - can be used either as an internal or external gripper

REMARK

- Scope of delivery:
- Shipping unit: PU = 3 pieces
- Price: 1 PU
- Including fixing material

DESIGNATION	ITEM NO.	X	A	B	C	D
ABR-MPZ-16	1-64-56-10-00-ABR	MPZ16				
ABR-MPZ-20	1-64-56-14-00-ABR	MPZ20				
ABR-MPZ-25	1-64-56-18-00-ABR	MPZ25				
ABR-MPZ-30	1-64-56-22-00-ABR	MPZ30				
ABR-MPZ-38	1-64-56-26-00-ABR	MPZ38	21,5	13	12	16,5
ABR-MPZ-45	1-64-56-30-00-ABR	MPZ45				

Legend: X = suitable for parallel gripper MPZ- ...

GRIPPER JAWS

ABP Adapterjaws for Parallel Gripper PAG





ADVANTAGES

- V1 - Simple production of customised gripper jaws for parallel grippers PAG
- V2 - Material aluminium

REMARK

- Scope of delivery:
- Package unit: PU = 2 pieces
- Price: 1 PU
- Including fixing material

INFO

- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. fastening material

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
ABP-20	1-60-81-40-00-ABP	12,5	12	12	0.014Kg	PAG-MPG+20
ABP-25 aus VA Sonder	1-60-81-42-00-002				0.019Kg	
ABP-25	1-60-81-42-00-ABP	17,5	12	12	0.019Kg	PAG-MPG+25
ABP-32	1-60-81-44-00-ABP	22,5	16	16	0.043Kg	PAG-MPG+32
ABP-40	1-60-81-46-00-ABP	28,5	20	20	0.081Kg	PAG-MPG+40
ABP-50	1-60-81-48-00-ABP	36,5	25	25	0.158Kg	PAG-MPG+50
ABP-64	1-60-81-50-00-ABP	48,5	30	25	0.252Kg	PAG-MPG+64

Legend: X = suitable for .....

GRIPPER JAWS

ABP Adapterjaws for Parallel Gripper PAG





ADVANTAGES

- V1 - Simple production of customised gripper jaws for parallel grippers PAG
- V2 - Material aluminium

REMARK

- Scope of delivery:
- Package unit: PU = 2 pieces
- Price: 1 PU
- Including fixing material

INFO

- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. fastening material

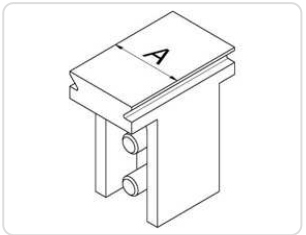
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
ABP-16	1-60-81-38-00-ABP	12,5	10	10	0.014Kg	PAG-MPG+16
ABP-20	1-60-81-40-00-ABP	12,5	12	12	0.014Kg	PAG-MPG+20
ABP-25	1-60-81-42-00-ABP	17,5	12	12	0.019Kg	PAG-MPG+25
ABP-32	1-60-81-44-00-ABP	22,5	16	16	0.043Kg	PAG-MPG+32
ABP-40	1-60-81-46-00-ABP	28,5	20	20	0.081Kg	PAG-MPG+40
ABP-50	1-60-81-48-00-ABP	36,5	25	25	0.158Kg	PAG-MPG+50
ABP-64	1-60-81-50-00-ABP	48,5	30	25	0.252Kg	PAG-MPG+64

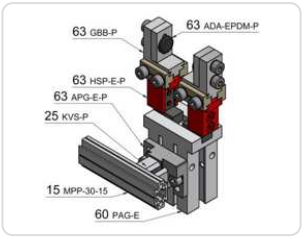
Legend: X = suitable for .....

GRIPPER JAWS

HSP-E-P Holding piece with prism for Parallel Gripper







ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip products can be easily attached to the parallel gripper Easy PAG-E
- V2 - Material aluminium

REMARK

- Scope of delivery:

INFO

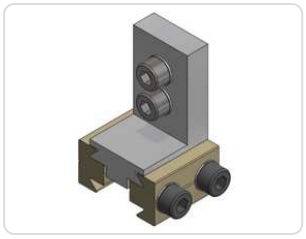
- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. fastening material

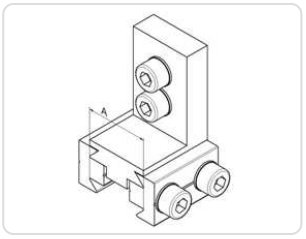
DESIGNATION	ITEM NO.	A	WEIGHT	X
HSP-6-E-P13	1-63-22-40-00-HSP	P13	0.006Kg	PAG-6-E
HSP-10-E-P13	1-63-22-42-00-HSP	P13	0.014Kg	PAG-10-E
HSP-16-E-P13	1-63-22-44-00-HSP	P13	0.009Kg	PAG-16-E
HSP-20-E-P13	1-63-22-46-00-HSP	P13	0.036Kg	PAG-20-E
HSP-25-E-P13	1-63-22-48-00-HSP	P13		PAG-25-E

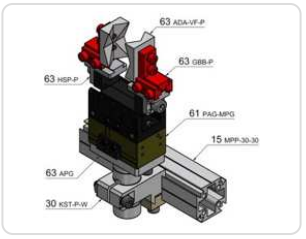
Legend: X = suitable for parallel gripper Easy PAG-E

GRIPPER JAWS

GBB-P Gripper Jaws Basic with prism







ADVANTAGES

- V1 - this gripper jaw base is used to connect
- AGS or Schunk gripping modules with AGS adapters.
- Together they offer various alternatives of
- gripper jaws with different functions such as the gripping
- of round or sensitive parts

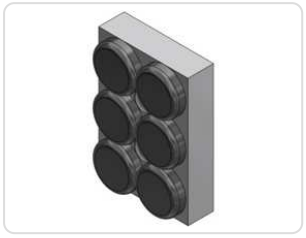
REMARK

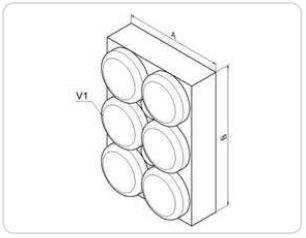
- Material: Aluminium
- Scope of delivery:
- Dispatch unit optional:
- PU = 1 piece, PU = 2 pieces and PU = 3 pieces
- Price: 1 PU
- incl. fastening material

DESIGNATION	ITEM NO.	A
GBB-P13-1	1-63-60-09-00-GBB	P13
GBB-P13-2	1-63-60-10-00-GBB	P13
GBB-P13-3	1-63-60-11-00-GBB	P13
GBB-P22-1	1-63-60-19-00-GBB	P22
GBB-P22-2	1-63-60-20-00-GBB	P22
GBB-P22-3	1-63-60-21-00-GBB	P22

GRIPPER JAWS

ADA-EPDM-P Adapter with EPDM Coat for GBB-P





ADVANTAGES

- V1 - this allows sensitive workpieces to be gripped securely
- V2 - the main features of the EPDM coating are its high flexibility, temperature resistance and durability

REMARK

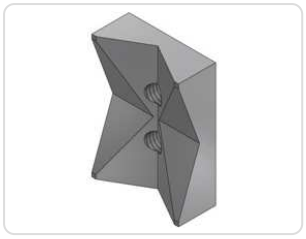
- Material:
- Aluminium
- Covering: EPDM
- Scope of delivery:
- Shipping unit optional:
- PU = 1 piece, PU = 2 pieces and PU = 3 pieces
- Price: 1 PU

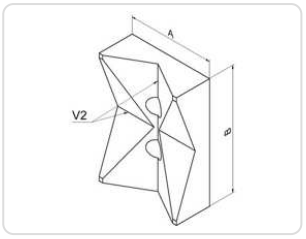
DESIGNATION	ITEM NO.	A	B	X
ADA-EPDM-P13-1	1-63-64-09-00-ADA	12	20	GBB-P13
ADA-EPDM-P13-2	1-63-64-10-00-ADA	12	20	GBB-P13
ADA-EPDM-P13	1-63-64-11-00-ADA	12	20	GBB-P13
ADA-EPDM-P22-1	1-63-64-19-00-ADA	21	30	GBB-P22
ADA-EPDM-P22-2	1-63-64-20-00-ADA	21	30	GBB-P22
ADA-EPDM-P22	1-63-64-21-00-ADA	21	30	GBB-P22

Legend: X = suitable for GBB-P

GRIPPER JAWS

ADA-VF-P Adapter V-Shape for GBB-P





ADVANTAGES

- V1 - can be used to grip cylindrical workpieces with process reliability and repeat accuracy
- V2 - this jaw shape offers the option of gripping in both radial and axial directions

REMARK

- Material: Aluminium
- Scope of delivery:
- Shipping unit optional:
- PU = 1 piece, PU = 2 pieces and PU = 3 pieces
- Price: 1 PU

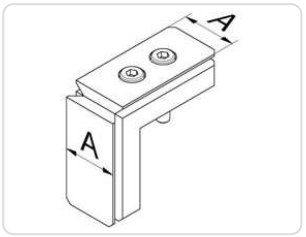
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
ADA-VF-P13-1	1-63-62-09-00-ADA	12	20	0.003Kg	GBB-P13
ADA-VF-P13-2	1-63-62-10-00-ADA	12	20		GBB-P13
ADA-VF-P13-3	1-63-62-11-00-ADA	12	20		GBB-P13
ADA-VF-P22-1	1-63-62-19-00-ADA	21	30		GBB-P22
ADA-VF-P22-2	1-63-62-20-00-ADA	21	30		GBB-P22
ADA-VF-P22-3	1-63-62-21-00-ADA	21	30		GBB-P22

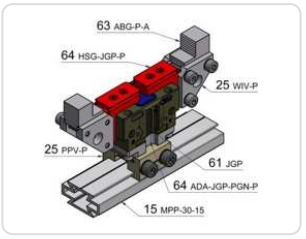
Legend: X = suitable for GBB-P

GRIPPER JAWS

HSP-JGP-P Holding piece with prism for JGP







ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip-
- products can be easily attached to the
- JGP parallel grippers

REMARK

- Scope of delivery:
- Shipping unit: PU= 2 pieces
- Price: 1 PU
- Including fixing material

INFO

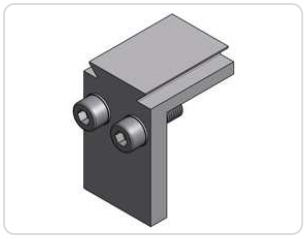
- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. fixing material

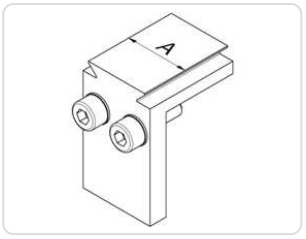
DESIGNATION	ITEM NO.	A	X
HSP-JGP-64-P22	1-64-50-58-00-HSP	P22	JGP-64
HSP-JGP-80-P22	1-64-50-62-00-HSP	P22	JGP-80

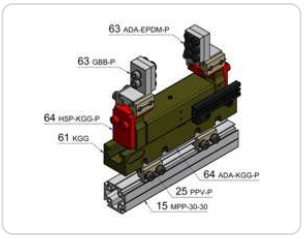
Legend: X = suitable for parallel gripper JGP- ...

GRIPPER JAWS

HSP-KGG-P Holding piece with prism for KGG-P







ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip-
- products can be easily attached to the
- KGG parallel gripper

REMARK

- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- Including fixing material

INFO

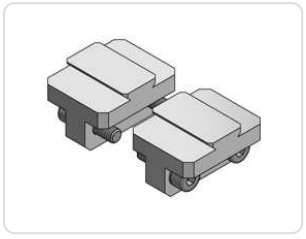
- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- incl. fixing material

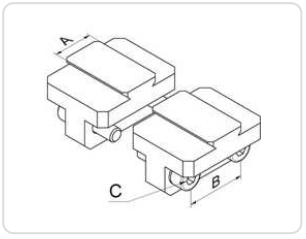
DESIGNATION	ITEM NO.	A	X
HSP-KGG-60-P13-2	1-64-52-10-00-HSP	P13	KGG-60
HSP-KGG-70-P13-2	1-64-52-14-00-HSP	P13	KGG-70
HSP-KGG-80-P13-2	1-64-52-18-00-HSP	P13	KGG-80
HSP-KGG-100-P13-2	1-64-52-22-00-HSP	P13	KGG-100
HSP-KGG-140-P22-2	1-64-52-26-00-HSP	P22	KGG-140
HSP-KGG-220-P22-2	1-64-52-30-00-HSP	P22	KGG-220

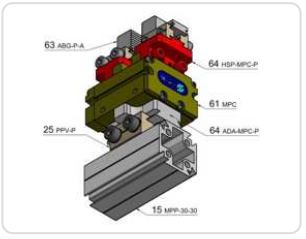
Legend: X = suitable for parallel gripper KGG- ...

GRIPPER JAWS

HSP-MPC-P Holding piece with prism for MPC







ADVANTAGES

- V1 - Gripper jaw ABG-P or other PreciGrip
- products can be easily attached to the
- parallel gripper MPC

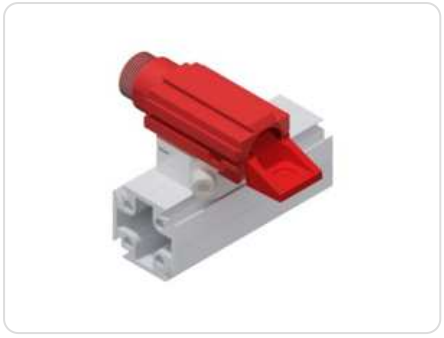
REMARK

- Scope of delivery:
- Shipping unit: PU = 2 pieces
- Price: 1 PU
- Including fixing material

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
HSP-MPC-025-P13-2	1-64-54-10-00-HSP	P13	13	Ø2,9	0.02Kg	MPC-025
HSP-MPC-040-075-P13-2	1-64-54-14-00-HSP	P13	18	Ø4,5	0.039Kg	MPC-040/075
HSP-MPC-100-P13-2	1-64-54-22-00-HSP	P13	22	Ø5,5	0.05Kg	MPC-100

Legend: X = suitable for parallel gripper MPC- ...

65.0 Gripper Fingers

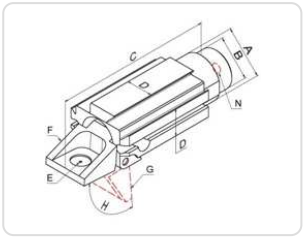


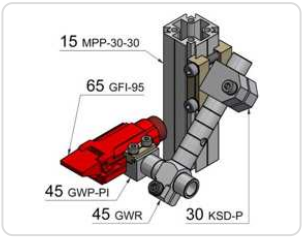
Gripper fingers are used when the gripping force of vacuum suction cups is not sufficient or the component is to be gripped from the rear. Clamping takes place via the round body of the gripper finger or the prima.

GRIPPER FINGER PRISM

GFI-95 Gripper Finger 95°







ADVANTAGES

- V1 - Query (finger folded in and out) using C-slot cylinder sensor ZYS-3.7-.. possible, no sensor holder required
- V2 - Thread for extension tube VLS
- available as standard
- V3 - Clamping via prism, therefore no jamming of the piston as with round gripper fingers
- V4 - Clamping via prism from all 4 sides
- possible for a compact application

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar filtered and dried
- air

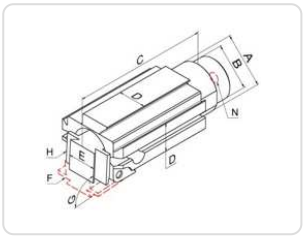
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	WEIGHT
GFI-20-95	1-65-02-02-00-GFI	20	M17×1	70	P13	Ø5	40N	M5	0.067Kg
GFI-30-95	1-65-04-02-00-GFI	30	M27×1	95	P22	2xØ5	125N	G1/8	0.164Kg

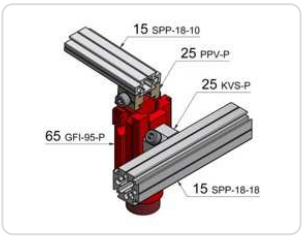
Legend: E - Pre-centred for Easy DRP-X-E-G pressure plate Ø through-hole for DRP-X-E-G F = Basic finger position G = Finger extended H = maximum opening angle M = gripping force (at 6bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER PRISM

GFI-95-P Gripper Finger 95° Prisma







ADVANTAGES

- V1 - extremely short design
- V2 - Monitoring (finger folded in and out) by means of C-slot cylinder sensor ZYS-3.7-.. possible, no sensor holder required
- V3 - Thread for extension tube VLS
- available as standard
- V4 - Clamping via prism, therefore no jamming of the piston as with round gripper fingers
- V5 - Clamping via prism from all 4 sides
- possible for a compact application

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar Use filtered and dried air

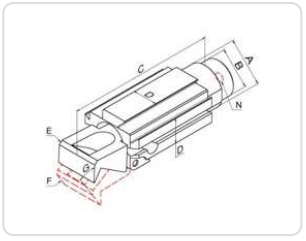
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	WEIGHT
GFI-20-95-P	1-65-02-08-00-GFI	20	M17×1	58	P13	P13	80N	M5	0.068Kg
GFI-30-95-P	1-65-04-08-00-GFI	30	M27×1	78	P22	P22	200N	G1/8	0.156Kg

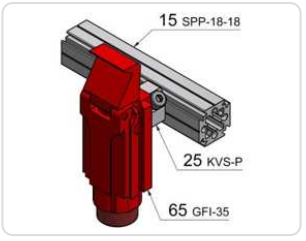
Legend: F = Finger extended G = maximum opening angle H = Basic finger position M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER PRISM

GFI-35 Gripper Finger 35°







ADVANTAGES

- V1 -Query (fingers in and out folded) using C-slots-
- Cylinder sensor ZYS-3,7-.. possible, no sensor holder required
- V2 - Thread for extension tube VLS
- available as standard
- V3 - Clamping via prism, therefore no jamming of the
- piston as with round gripper fingers possible

REMARK

- Operating principle: Single-acting
- Operating pressure: 6 bar, use filtered and dried
- air

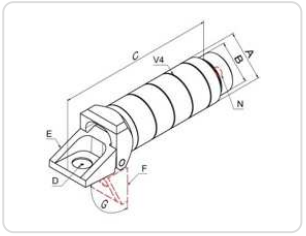
DESIGNATION	ITEM NO.	A	B	C	D	M	N	WEIGHT
GFI-20-35	1-65-02-04-00-GFI	20	M17×1	73	P13	45N	M5	0.069Kg
GFI-30-35	1-65-04-04-00-GFI	30	M27×1	102	P22	140N	G1/8	0.167Kg

Legend: E = Basic finger position F = Finger extended G = maximum opening angle M = gripping force (at 6 bar) Gripping force 10N = 1kg N = air connection

GRIPPER FINGER ROUND

GFI-95-E Gripper Finger 95° Easy





ADVANTAGES

- V1 - very short design
- V2 - favourable gripper finger
- V3 - various mounting options
- V4 - marking aid every 10 mm on the shaft for
- easy adjustment
- V5 - pre-centred for Easy DRP-X-E-G pressure plate

REMARK

- Operating principle: Single-acting
- - Extension thread for extension tube VLR
- - GFI-14-95-E query option on request, for
- GFI-20-95-E and GFI-30-95-E already available as standard
- Operating pressure: 6 bar filtered and dried
- air

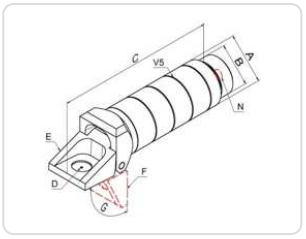
DESIGNATION	ITEM NO.	A	B	C	D	M	N	WEIGHT	X
GFI-14-95-E	1-65-00-10-00-GFI	14	M12×1	55	4	20N	M5	0.02Kg	DRP-10-X-E-G
GFI-20-95-E	1-65-02-10-00-GFI	20	M17×1	83	5	40N	M5	0.049Kg	DRP-16-X-E-G
GFI-30-95-E	1-65-04-10-00-GFI	30	M27×1	98	2×5	125N	G1/8	0.143Kg	DRP-16-X-E-G

Legend: D = pre-centred for Easy DRP-X-E-G pressure plate Ø through-hole for DRP-X-E-G E = basic finger position F = finger extended G = maximum opening angle M = gripping force (at 6 bar) Gripping force 10N = 1kg N = air connection X = suitable for DRP-X-E-G

GRIPPER FINGER ROUND

GFI-95-E-VA Gripper Finger 95° Easy made from stainless steel





ADVANTAGES

- V1 - Fingers and head made of stainless steel
- V2 - very short design
- V3 - favourable gripper finger
- V4 - various mounting options
- V5 - Marking aid every 10mm on shaft for
- easy adjustment
- V6 - Pre-centred for pressure plate Easy DRP-X-E-G

REMARK

- Operating principle: Single-acting
- - Extension thread for extension tube VLR
- - Query option
- Operating pressure: 6 bar filtered and dried air

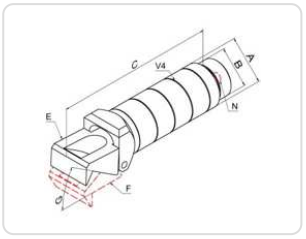
DESIGNATION	ITEM NO.	A	B	C	D	M	N	WEIGHT	X
GFI-20-95-E-VA	1-65-03-10-00-GFI	20	M17×1	83	5	40N	M5	0.075Kg	DRP-16-X-E-G

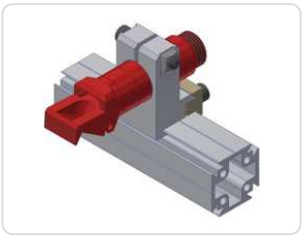
Legend: D = here pre-centred for pressure plate Easy DRP-X-E-G Ø through-hole for DRP-X-E-G E = Basic finger position F = Finger extended G = maximum opening angle M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection X = suitable for DRP-X-E-G

GRIPPER FINGER ROUND

GFI-35-E Gripper Finger 35° Easy







ADVANTAGES

- V1 - very short design
- V2 - favourable gripper finger
- V3 - various mounting options
- V4 - Marking aid every 10 mm on the shaft for
- easy adjustment

REMARK

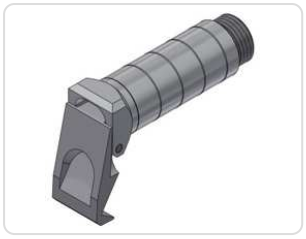
- Operating principle: Single-acting
- - Extension thread for extension tube VLR
- - Query option as an option
- Operating pressure: 6 bar filtered and dried
- air

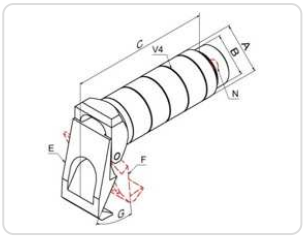
DESIGNATION	ITEM NO.	A	B	C	M	N	WEIGHT
GFI-14-35-E	1-65-00-12-00-GFI	14	M12×1	56	20N	M5	0.017Kg
GFI-20-35-E	1-65-02-12-00-GFI	20	M17×1	74	45N	M5	0.049Kg
GFI-30-35-E	1-65-04-12-00-GFI	30	M27×1	104	125N	G1/8	0.141Kg

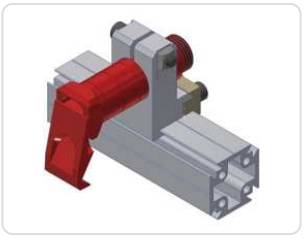
Legend: E = Basic finger position F = Finger extended G = maximum opening angle M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER ROUND

GFI-35-WE Gripper Finger 35° Angle Easy







ADVANTAGES

- V1 - very short design
- V2 - favourable gripper finger
- V3 - various mounting options
- V4 - Marking aid every 10 mm on the shaft for
- easy adjustment

REMARK

- Operating principle: single-acting
- - Extension thread for extension tube VLR
- - Query option
- Operating pressure: use 6 bar filtered and dried
- air

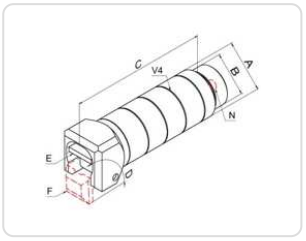
DESIGNATION	ITEM NO.	A	B	C	M	N	WEIGHT
GFI-20-35-WE	1-65-02-14-00-GFI	20	M17×1	55	45N	M5	0.048Kg
GFI-30-35-WE	1-65-04-14-00-GFI	30	M27×1	74	130N	G1/8	0.144Kg

Legend: E = Basic finger position F = Finger extended G = maximum opening angle M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER ROUND

GFI-90-E Gripper Finger 90° Easy





ADVANTAGES

- V1 - very short design
- V2 - favourable gripper finger
- V3 - various mounting options
- V4 - Marking aid every 10 mm on the shaft for
- easy adjustment

REMARK

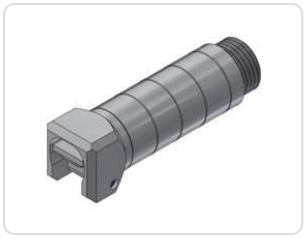
- Operating principle: Single-acting
- - Extension thread for extension tube VLR
- - Query option as an option
- Operating pressure: 6 bar filtered and dried
- air

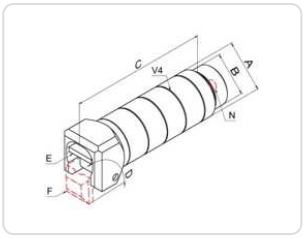
DESIGNATION	ITEM NO.	A	B	C	M	N	WEIGHT
GFI-14-90-E	1-65-00-16-00-GFI	14	M12×1	49,5	20N	M5	0.02Kg
GFI-20-90-E	1-65-02-16-00-GFI	20	M17×1	63	45N	M5	0.047Kg
GFI-30-90-E Greiffinger 90°	1-65-04-16-00-GFI	30	M27×1	87	125N	G1/8	0.141Kg

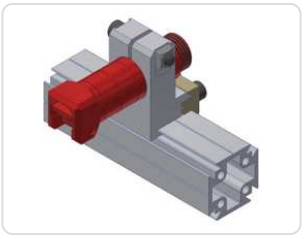
Legend: D = maximum opening angle E = Basic finger position F = Finger extended M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER ROUND

GFI-90-E-SI Gripper Finger 90° Easy with Silicone Inlay







ADVANTAGES

- V1 – the finger has a resistant,
- heat-resistant and flexible silicone insert
- V2 -very short design
- V3 - favourable gripper finger
- V4 - various mounting options
- V5 - marking aid every 10 mm on the shaft for
- easy adjustment

REMARK

- Operating principle: Single-acting
- - Extension thread for extension tube VLR
- - Optional gripping option
- Material
- Insert: Silicone Shore hardness 60 ±5 Shore A
- Operating pressure: 6 bar filtered and dried
- air

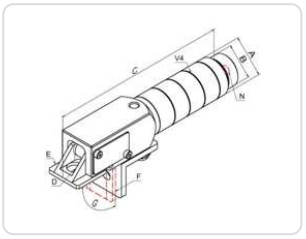
DESIGNATION	ITEM NO.	A	B	C	M	N	WEIGHT
GFI-14-90-E	1-65-00-18-00-GFI	14	M12×1	51,5	20N	M5	0.02Kg
GFI-20-90-E-SI	1-65-02-18-00-GFI	20	M17×1	63	45N	M5	0.047Kg

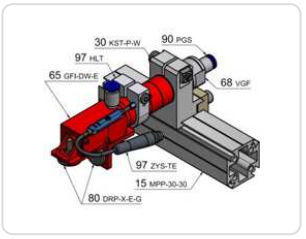
Legend: D = maximum opening angle E = Finger Basic position F = Finger extended M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER ROUND

GFI-DW-E Gripper Finger Double Acting







ADVANTAGES

- V1 - double-acting: 2 gripping options
- V2 - Self-locking: in the event of pressure loss
- the finger does not release
- V3 - various mounting options
- V4 - Marking aid every 10 mm on the shaft for easy
- easy adjustment

REMARK

- Operating principle: Double-acting
- - Extension thread for extension tube VLR
- - Query option
- Operating pressure: 6 bar filtered and dried
- air

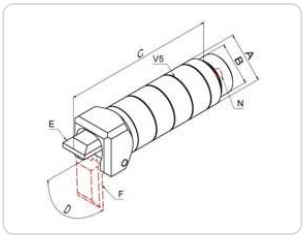
DESIGNATION	ITEM NO.	A	B	C	M	N	WEIGHT
GFI-DW-20-90-E	1-65-08-16-00-GFI	20	M17×1	100	40N	M5	0.099Kg
GFI-DW-30-90-E	1-65-10-16-00-GFI	30	M27×1	134	120N	G1/8	0.283Kg

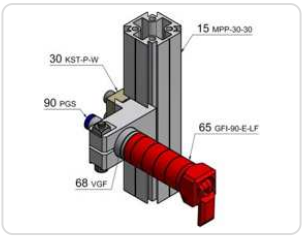
Legend: D = here pre-centred for pressure plate Easy DRP-X-E-G E = Basic finger position F = Finger extended G = maximum opening angle M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

GRIPPER FINGER ROUND

GFI-90-E-LF Gripper Finger 90° Easy with long Finger







ADVANTAGES

- V1 - extended finger
- V2 - very short design
- V3 - favourable gripper finger
- V4 - various mounting options
- V5 - Marking aid every 10mm on the shaft for
- easy adjustment

REMARK

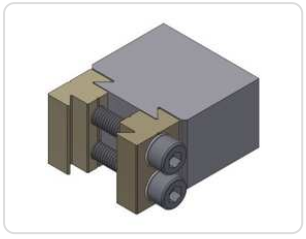
- Operating principle: Single-acting
- - Extension thread for extension tube VLR
- - Query option as an option
- Operating pressure: 6 bar filtered and dried
- air

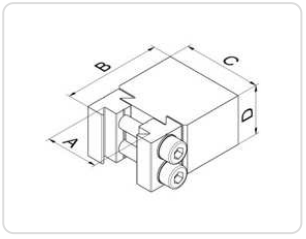
DESIGNATION	ITEM NO.	A	B	C	D	M	N	WEIGHT
GFI-20-90-E-LF	1-65-02-46-00-GFI	20	M17×1	72	90°	45N	M5	0.047Kg

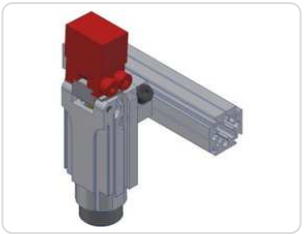
Legend: D = maximum opening angle E = Basic finger position F = Finger extended M = gripping force (at 6 bar) Gripping force 10N = 1kg N = Air connection

68.0 - GRIPPER FINGER ACCESOIRES

AGP Adapter Gripper Finger Prism







ADVANTAGES

- V1 - Attachment for Greiffinger GFI - P (prism)
- V2 - Can be easily adapted to the part contour

REMARK

- Material: Aluminium

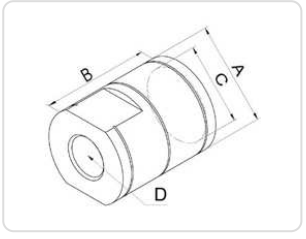
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
AGP-20-16-25	1-68-02-10-00-AGP	P13	25	20	15	0.021Kg	GFI-20-95-P
AGP-30-20-40	1-68-04-10-00-AGP	P22	40	28	20	0.058Kg	GFI-30-95-P

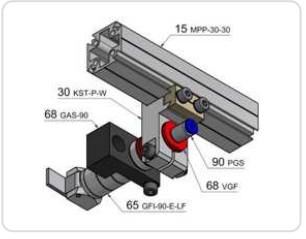
Legend: X = suitable for Greiffinger GFI - P

68.0 - GRIPPER FINGER ACCESOIRES

VGF Extension for Gripper Fingers with air connection







ADVANTAGES

- V1 - extends the gripper finger on the shaft
- V2 - has holes for air connection

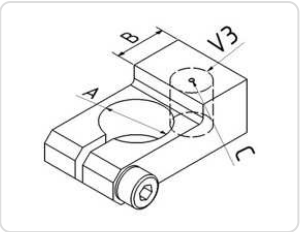
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
VGF-14-25-5	1-68-06-10-00-VGF	14	25	M12×1	M5	0.008Kg	GFI-14
VGF-20-25-18	1-68-06-16-00-VGF	20	25	M17×1	G1/8	0.014Kg	GFI-20
VGF-30-40-18	1-68-06-22-00-VGF	30	40	M27×1	G1/8	0.052Kg	GFI-30

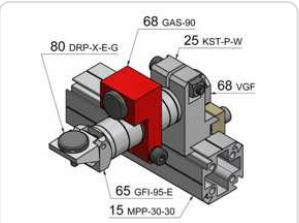
Legend: X = suitable for gripper fingers GFI-..

68.0 - GRIPPER FINGER ACCESOIRES

GAS-90 Gripper Finger Stop







ADVANTAGES

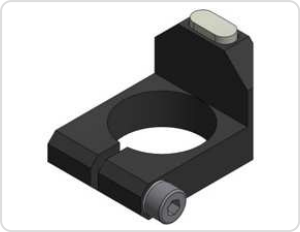
- V1 - large support for the workpiece
- V2 - wall thicknesses optimised (stable design)
- V3 - Pre-centred for Easy DRP-X-E-G pressure plate

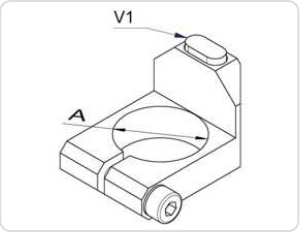
DESIGNATION	ITEM NO.	A	B	C	O	WEIGHT	X
GAS-14-90	1-68-00-02-00-GAS	14	11,5	4	DRP-10-X-E-G	0.008Kg	GFI-14-95-E
GAS-20-90	1-68-02-02-00-GAS	20	16	5	DRP-16-X-E-G	0.021Kg	GFI-20-95-E
GAS-30-90	1-68-04-02-00-GAS	30	20	2×5	DRP-16-X-E-G	0.048Kg	GFI-30-95-E

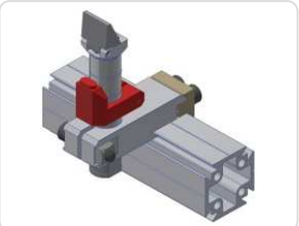
Legend: C = Ø through-hole for DRP-X-E-G (manufactured by the customer) O = suitable for pressure plate DRP-X-E-G X = suitable for Greiffinger GFI-...-E

68.0 - GRIPPER FINGER ACCESOIRES

GAS-90-SI Gripper Finger Stop with Silicone Inlay







ADVANTAGES

- V1 - the stop piece has a resistant, heat-resistant and flexible silicone insert,
- heat-resistant and flexible silicone insert

REMARK

- Body material: POM - milled
- Material insert: Silicone Shore hardness 60 ±5 Shore A

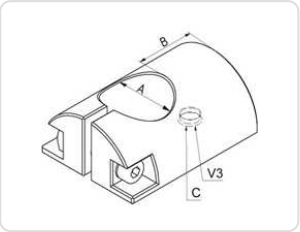
DESIGNATION	ITEM NO.	A	WEIGHT	X
GAS-14-90-SI	1-68-00-04-00-GAS	14	0.008Kg	GFI-14-90-E-SI
GAS-20-90-SI	1-68-02-04-00-GAS	20	0.021Kg	GFI-20-90-E-SI

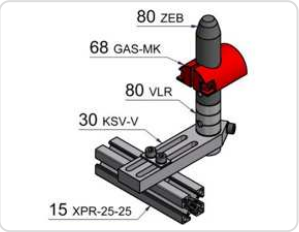
Legend: X = suitable for gripper fingers GFI-...-E-SI

68.0 - GRIPPER FINGER ACCESOIRES

GAS-MK Gripper Finger Stop multi compatible







ADVANTAGES

- V1 - flat and round stop surface: suitable for every area of application
- V2 - large support for the workpiece
- V3 - prepared for Easy DRP-X-E-G pressure plate

REMARK

- Material: PA-12 laser-sintered
- Colour: black

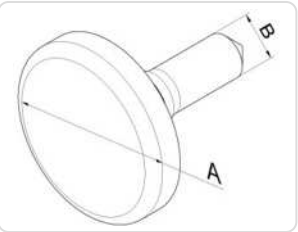
DESIGNATION	ITEM NO.	A	B	C	N	O	WEIGHT	X
GAS-10-MK	1-68-08-08-00-GAS	10	11	4	DRP-10-X-E-G	ZEB-10	0.014Kg	-
GAS-14-MK	1-68-08-10-00-GAS	14	14	5	DRP-16-X-E-G	ZEB-14	0.018Kg	GFI-14-E
GAS-20-MK	1-68-08-12-00-GAS	20	17	5	DRP-16-X-E-G	ZEB-20	0.033Kg	GFI-20-E
GAS-30-MK	1-68-08-14-00-GAS	30	24	2×5	DRP-16-X-E-G	ZEB-30	0.052Kg	GFI-30-E

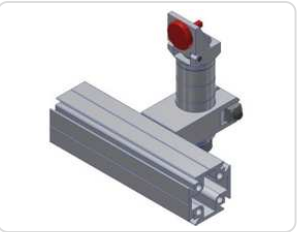
Legend: C = Ø through-hole for DRP-X-E-G N = suitable for pressure plate DRP-X-E-G O = suitable for centring pin ZEB .... X = suitable for Greiffinger GFI ...

68.0 - GRIPPER FINGER ACCESOIRES

DRP-X-E-G Pressure Plate Easy







REMARK

- Material EPDM
- Temperature resistance: -40°C to +90°C,
- up to 120°C for short periods
- Shipping unit:
- PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
DRP-10-E-G	1-80-44-48-00-DRP	10	4	0.002Kg
DRP-16-E-G	1-80-44-50-00-DRP	16	5	0.002Kg

Legend: B = Ø through hole for GFI and DRP-E

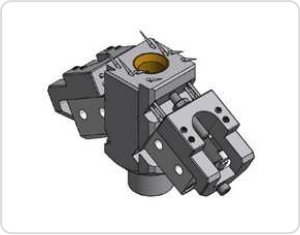
69.0 Special Grippers

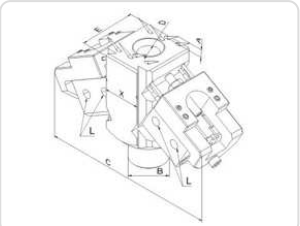


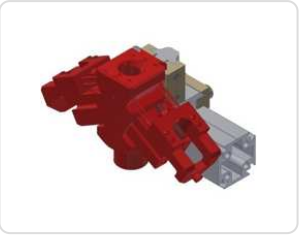
In this group you will find gripping options for special applications:

NEEDLE GRIPPER

NAG-8 Needle Gripper with 8 Needles







For gripping: Textiles, foam, flexible parts

ADVANTAGES

- V1 - optional use of 4 or 8 needles
- V2 - handling of flexible or porous components
- V3 - precise gripping and transfer of textiles
- V4 - short-term temperature resistance up to 100°C
- V5 - infinitely adjustable needle stroke up to 20mm
- V6 - fastening prism and round clamping
- V7 - high-strength industrial needles

REMARK

- When only 4 needles are used, the 4 surplus needles are removed by the customer
- Material aluminium
- Clamping via diameter or prism
- Operating pressure: 6 bar filtered and dried air
- Area of application:

INFO

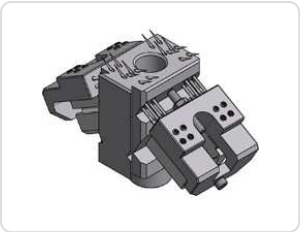
- Scope of delivery:
- 8 needles included
- (4 needles 59.5mm and 4 needles 47.5mm long

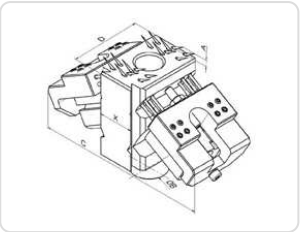
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	L	X	WEIGHT
NAG-8-10	1-69-00-20-00-NAG	0-4	20	102	11,5	33	8	10	2	M5	P22	
NAG-8-20	1-69-00-22-00-NAG	0-9	20	118	11,5	33	8	20	2	M5	P22	0.264Kg

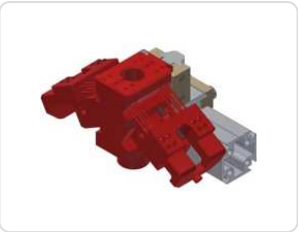
Legend: D = Ø clearance for fabric centring or when picking up in the tool F = Number of needles G = stroke H = Needle Ø L = air connection

NEEDLE GRIPPER

NAG-16 Needle Gripper with 16 Needles







ADVANTAGES

- V1 - optional use of 8 or 16 needles
- V2 - handling of flexible or porous components
- V3 - precise gripping and transfer of textiles
- V4 - short-term temperature resistance up to 100°C
- V5 - infinitely adjustable needle stroke up to 20 mm
- V6 - attachment prism and round clamping
- V7 - high-strength industrial needles

INFO

- Scope of delivery:
- including 16 needles
- (8 needles 59.5mm and 8 needles 47.5mm long)
- Area of application:
- Needle grippers are used for handling flexible materials such as textiles, foams, SMC (sheet moulding compound), nonwovens, multiple flexible layers, bulky or sticky materials

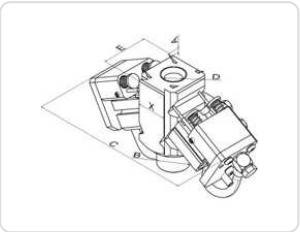
DESIGNATION	ITEM NO.	A	B	C	D	E	F	H	O	X
NAG	1-69-00-30-00-NAG	0-4	20	104	43	16	10	2	M5	P22
NAG-16-20	1-69-00-32-00-NAG	0-9	20	121	43	16	20	2	M5	P22

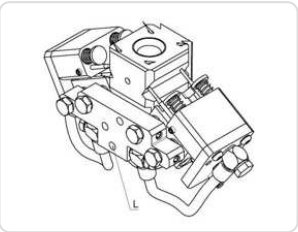
Legend: E = Number of needles F = stroke H = Ø needle O = Air connection

NEEDLE GRIPPER

NAG-D Needle Gripper Double Stroke







REMARK

- Material aluminium (guide sleeve made of brass)
- Clamping via diameter or prism
- Operating pressure: 6 bar filtered and dried air

INFO

- Area of application:
- Needle grippers are used for handling flexible materials such as textiles, foams, SMC (Sheet Moulding Compound), nonwovens, multiple flexible layers, voluminous or sticky materials

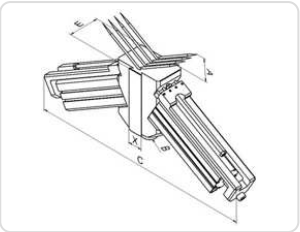
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	L	WEIGHT	X
NAG-D-H	1-69-00-12-00-NAG	0-4	20	102	11,5	32	10	4	2	M5	0.31Kg	P22

Legend: D = Ø clearance for fabric centring or when picking up in the tool F = Stroke G = Number of needles H = Needle Ø L = Air connection

NEEDLE GRIPPER

NAG-8-GH Needle Gripper Long Stroke







ADVANTAGES

- V1 - optional use of 4 or 8 needles
- V2 - handling of flexible or porous components
- V3 - precise gripping and transfer of fibre matrix semi-finished products (prepreg)
- V4 - short-term temperature resistance up to 100°C
- V5 - adjustable needle stroke up to 75mm
- V6 - various mounting options
- V7 - high-strength industrial needles

REMARK

- When only 4 needles are used, removal
- of the 4 surplus needles is carried out by the customer
- Material aluminium
- Clamping via diameter or prism
- Recommended tube diameter Ø6mm
- optional:
- Contact surface body to semi-finished product
- Teflon-coated
- Operating pressure: 6 bar filtered and dried
- air to be used

INFO

- Field of application:
- Needle grippers are used for handling flexible materials such as textiles, foams, SMC (Sheet Moulding Compound), non-wovens, multiple flexible layers, bulky or sticky materials

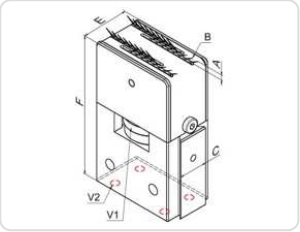
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	WEIGHT	X
NAG-8-75-GH	1-69-03-10-00-NAG	36	20	328	460	45	8	75	M5	2,6	1.83Kg	P22

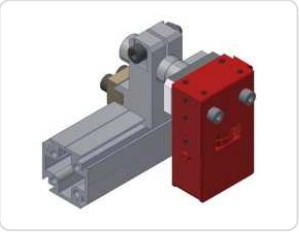
Legend: C = total width with extended needles D = total width with retracted needles (home position) F = number of needles G = stroke H = air connection I = needle Ø

NEEDLE GRIPPER

NAG-S Needle Gripper Small Version







REMARK

- Material aluminium
- Operating principle: double-acting
- Operating pressure: 6 bar, use filtered and dried air

INFO

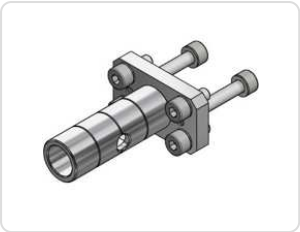
- Area of application:
- Needle grippers are used for handling flexible materials such as textiles, foams, SMC (Sheet Moulding Compound), nonwovens

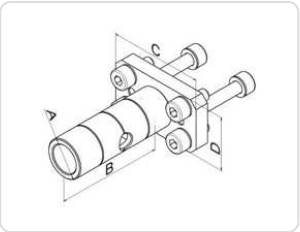
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT
NAG-S-30	1-69-00-14-00-NAG	0-2,5	32	P13	35	20	59	2x M5	0.14Kg

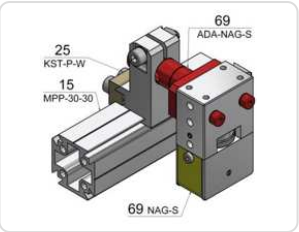
Legend: A = Adjustable needle stroke B = Number of needles G = air connection

NEEDLE GRIPPER

ADA-NAG-S Adapter for NAG-S







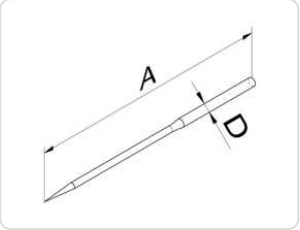
REMARK
- Material: aluminium
- Scope of delivery:
- incl. fastening material

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT	X
ADA-NAG-S-20-14-40	1-69-01-90-00-ADA	14	40	35	20	0.03Kg	NAG-S-20

NEEDLE GRIPPER

NAD Needle





ADVANTAGES
- V1 - replaceable as wear part

REMARK
- Material: steel alloy
- Shipping unit: PU = 10 pieces
- Price: 1 PU

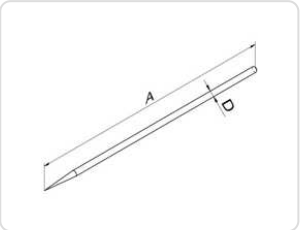
DESIGNATION	ITEM NO.	A	D	N	O	WEIGHT	X
Needle Ø2 NAG	1-69-00-10-19-NAD	59,5	2	NAG-D (4x)	NAG-16 (8x)	0.001Kg	NAG-8 (4x)
Nadel Ø2 NAD-2-47,5	1-69-00-20-19-NAD	47,5	2		NAG-16 (8x)		NAG-8 (4x)

Legend: N = suitable for needle gripper NAG-D O = suitable for needle gripper NAG-16 with 10 and 20mm stroke X = suitable for needle gripper NAG-8 with 10 and 20mm stroke

NEEDLE GRIPPER

NAD-GH Needle for NAG-8-GH





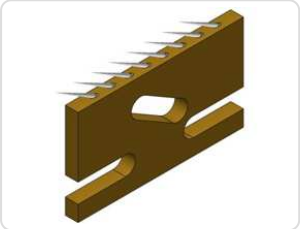
ADVANTAGES
- V1 - replaceable as wear part

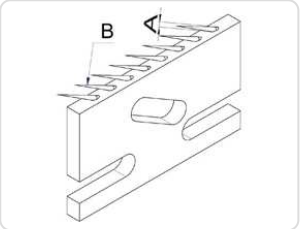
REMARK
- Material: Steel alloy

DESIGNATION	ITEM NO.	A	D	SW	WEIGHT
NAD-2.6-120-GH	1-69-03-11-00-NAD	120	2,6	1	0.008Kg

NEEDLE GRIPPER

NAD-S Needle Beam





ADVANTAGES
- V1 - replaceable as wear part

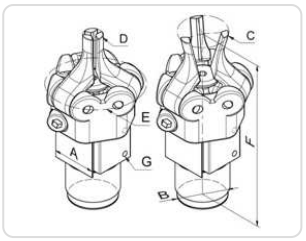
REMARK
- Material:
- Needles:Steel alloy
- Body: brass
- Shipping unit: PU = 4 pieces
- Price: 1 packaging unit

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
NAD-S-0,6-8-30	1-69-00-15-00-NAD	0,6	8	30	0.005Kg

INTERNAL GRIPPER

ING-D Inside Gripper double acting





ADVANTAGES

- V1 - double-acting internal gripper
- V2 - sensitive gripping
- V3 - easy to integrate into the AGS gripper system
- V4 - the three gripper fingers are manufactured using the K-forming process
- and can therefore be easily customised to
- customer requirements
- V5 - the actuator consists of an aluminium housing
- with a polyamide piston

REMARK

- Operating pressure: 6 bar, use filtered and dried air

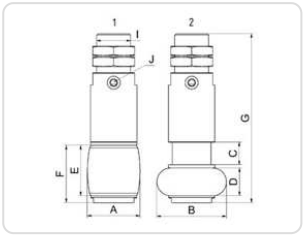
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G
ING-D-8	1-69-50-08-00-ING	P22	P22	11	8	42	80	M3
ING-D-10	1-69-50-11-00-ING	P22	P22	13	10	42		M3
ING-D-12	1-69-50-14-00-ING	P22	P22	15	12	42		M3
ING-D-14	1-69-50-18-00-ING	P22	P22	17	14	42		M3
ING-D-16	1-69-50-22-00-ING	P22	P22	19	16	42		M3

Legend: A = suitable for KVS-P..... B = suitable for PDV-P..... profile swivel connector C = maximum workpiece inside diameter D = minimum workpiece inside diameter E = maximum size and minimum distance from inner gripper to inner gripper ING-D G = Air connection

INTERNAL GRIPPER

IBG-D Inside Bellow Gripper pushing





ADVANTAGES

- V1 - Single-acting inner gripper
- V2 - Sensitive gripping
- V3 - Simple integration into the gripper system
- V4 - lateral compressed air connection
- V5 - a through-hole enables the
- workpiece to be cooled, cleaned, checked for leaks or disinfected during the handling process

REMARK

- Bellows material: EPDM
- Silicone material available on request
- Optional: Query from size IBG-28-27-D
- Operating pressure: 6 bar, use filtered and dried air
- Ambient temperature:
- - Gripper +5°C to +60°C
- - EPDM bellows -30°C to +120°C
- Extended data sheet available on request
- Operating principle: Bellows are pressed away from the body
- Application: if play (freely suspended) is required in the gripped
- state, for workpieces with small
- bore depth
- see image 2 "IBG-D-KAT inner bellows gripper - pressing":
- 1 = Basic position (vented)
- 2 = Working position (ventilated)

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	I	J	M	N	WEIGHT
IBG-8-11-D	1-69-00-20-30-IBG	8	11	3,5	3	7	9,2	52,7	M10×1	M3	0,08Kg	M5	0.022Kg
IBG-10.5-14-D	1-69-00-20-31-IBG	10,5	14	4	4	8,5	10,7	54,2	M10×1	M3	0,1Kg	M5	0.024Kg
IBG-13-17-D	1-69-00-20-32-IBG	13	17	5,5	5	10,5	13	55,5	M12×1	M3	0,12Kg	M5	0.025Kg
IBG-15-19.5-D	1-69-00-20-34-IBG	15	19,5	7	6	13	15,8	55,8	M12×1	M3	0,15Kg	M5	0.033Kg
IBG-19.5-25-D	1-69-00-20-36-IBG	19,5	25	7,5	9	16,5	19,5	65	M12×1	M5	0,21Kg	M5	0.043Kg

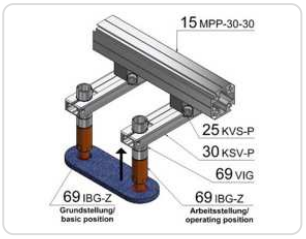
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	I	J	M	N	WEIGHT
IBG-24-31.5-D	1-69-00-20-38-IBG	24	31,5	12	11	21	24,2	75,5	M14×1	M5	0,3,2Kg	M5	0.073Kg
IBG-28-37-D	1-69-00-20-42-IBG	28	37	12	14	26	30	88	M16×1	M5	0,45Kg	M5	0.093Kg
IBG-34-45-D	1-69-00-20-44-IBG	34	45	14,5	18	32,5	37	109	M22×1,5	M5	0,7Kg	G1/8	0.15Kg
IBG-42-54-D	1-69-00-20-46-IBG	42	54	15,5	24	39,5	45	126,5	M22×1,5	M5	1,2Kg	G1/8	0.275Kg
IBG-54-68-D	1-69-00-20-48-IBG	54	68	18	30	48	55	159	M26×1,5	G1/8	2,5Kg	G1/8	0.519Kg
IBG-66-85-D	1-69-00-20-50-IBG	66	85	25	36	61	77	189	M26×1,5	G1/8	5,1Kg	G1/8	0.8Kg

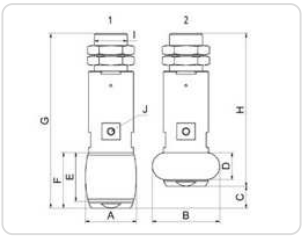
Legend: A = Bellows diameter vented min. workpiece diameter B = Bellows diameter ventilated max. workpiece diameter C = Bellows stroke J = lateral pressure connection M = max. workpiece weight N = continuous inner bore

INTERNAL GRIPPER

IBG-Z Inside Bellow Gripper pulling







ADVANTAGES

- V1 - Single-acting inner gripper
- V2 - Sensitive gripping
- V3 - Simple integration into the gripping system
- V4 - lateral compressed air connection
- V5 - a through-hole enables the workpiece to be cooled, cleaned, checked for leakage or sanitised during the handling process

REMARK

- Bellows material: EPDM
- Silicone material available on request
- Optional: Query from size IBG-28-27-D
- Operating pressure: 6 bar, use filtered and dried air
- Ambient temperature:
- - Gripper +5°C to +60°C
- - EPDM bellows -30°C to +120°C
- Extended data sheet available on request
- Functional principle: Bellows are pulled towards the body
- Application: in gripped state: can be pulled on block
- (stop) can be pulled
- see image 2 "AB-IBG-Z-KAT inner bellows gripper - pulling":
- 1 = Basic position (vented)
- 2 = Working position (ventilated)

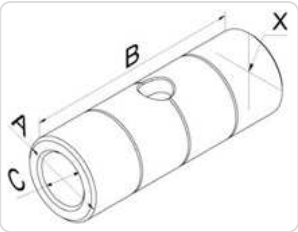
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	M	N	WEIGHT	J
IBG-8-11-Z	1-69-00-20-10-IBG	8	11	3,5	3	7	9,2	57,5	53,5	M10×1	0,08Kg	M5	0.023Kg	
IBG-10.5-14-Z	1-69-00-20-11-IBG	10,5	14	4	4	8,5	10,7	58,8	54	M10×1	0,1Kg	M5	0.024Kg	M3
IBG-13-17-Z	1-69-00-20-12-IBG	13	17	5,5	5	10,5	13	60,5	55	M10×1	0,12Kg	M5	0.025Kg	M3
IBG-15-19.5-Z	1-69-00-20-14-IBG	15	19,5	7	6	13	15,8	64	57	M10×1	0,15Kg	M5	0.033Kg	M3
IBG-19.5-25-Z	1-69-00-20-16-IBG	19,5	25	7,5	9	16,5	19,5	72,5	65	M12×1	0,21Kg	M5	0.043Kg	M5
IBG-24-31.5-Z	1-69-00-20-18-IBG	24	31,5	12	11	21	24,2	82	72	M14×1	0,32Kg	M5	0.073Kg	M5
IBG-28-37-Z	1-69-00-20-22-IBG	28	37	12	14	26	30	98	86	M16×1	0,45Kg	M5	0.093Kg	M5
IBG-34-45-Z	1-69-00-20-24-IBG	34	45	14,5	18	32,5	37	116	101,5	M22×1,5	0,7Kg	G1/8	0.15Kg	M5
IBG-42-54-Z	1-69-00-20-26-IBG	42	54	15,5	24	39,5	45	131	115,5	M22×1,5	1,2Kg	G1/8	0.275Kg	M5
IBG-54-68-Z	1-69-00-20-28-IBG	54	68	18	30	48	55	160	142	M26×1,5	2,5Kg	G1/8	0.519Kg	G1/8
IBG-66-85-Z	1-69-00-20-29-IBG	66	85	25	36	61	77	185	160	M26×1,5	5,1Kg	G1/8	0.8Kg	G1/8

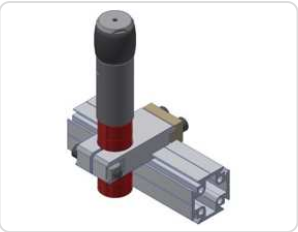
Legend: A = Bellows diameter vented min. workpiece diameter B = Bellows diameter ventilated max. workpiece diameter C = Bellows stroke J = lateral compressed air connection M = max. workpiece weight N = continuous inner bore

INTERNAL GRIPPER

VIG Extension Inside Bellow Gripper







ADVANTAGES

- V1 - this extension piece makes it possible to integrate inner bellows suction cups into the AGS modular system

REMARK

- Material: Aluminium

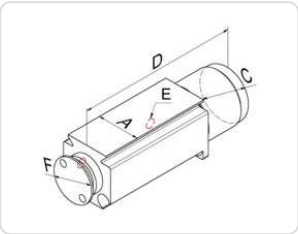
DESIGNATION	ITEM NO.	A	B	C	O	WEIGHT	X
VIG-14-40-10	1-69-00-22-10-VIG	14	40	M10×1	PGS-5-4-S	0.01Kg	1
VIG-14-40-12	1-69-00-22-14-VIG	14	40	M12×1			2
VIG-20-50-14	1-69-00-22-18-VIG	20	50	M14×1			3
VIG-20-50-16	1-69-00-22-22-VIG	20	50	M16×1			4
VIG-30-60-22	1-69-00-22-26-VIG	30	60	M22×1.5			5
VIG-30-60-26	1-69-00-22-30-VIG	30	60	M26×1.5			6

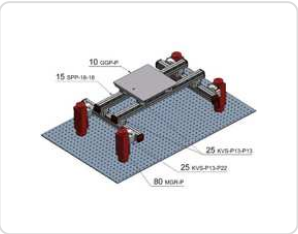
Legend: O = Air connection only possible with PGS-S (small version) X = suitable for inner bellows gripper IBG-..... : 1 - IBG-8-11-Z, IBG-10.5-14-Z, IBG13-17-Z, IBG-15-19.5-Z, IBG-8-11-D, IBG-10.5-14-D 2 - IBG-19.5-25-Z, IBG-13-17-D, IBG-15-19.5-D, IBG-19.5-25-D 3 - IBG-24-31.5-Z, IBG-24-31.5-D 4 - IBG-28-37-Z, IBG-28-37-D 5 - IBG-34-45-Z, IBG-34-45-Z, IBG-34-45-D, IBG-34-45-D 6 - IBG-54-68-Z, IBG-66-85-Z, IBG-54-68-D, IBG-66-85-D

MAGNET GRIPPER

MGR-P Magnet Gripper Pneumatic







ADVANTAGES

- V1 - permanent magnet
- V2 - no residual holding force
- V3 - double-acting
- V4 - position can be queried via sensor ZYS-3.7
- V5 - the workpiece is held securely even with a sudden drop in compressed air
- V6 - even perforated parts made of magnetic metal can be gripped securely
- V7 - two mounting options: prism on the body and round prism at the end of the body

REMARK

- Operating principle: Double-acting
- Ambient temperature: 5°C to 70°C
- Please order pneumatic connection PGS-3-3-S separately
- Operating pressure/ pressure range: 3-6bar use filtered and
- dried air
- for attachment from below, query only possible using ZYS-TE

INFO

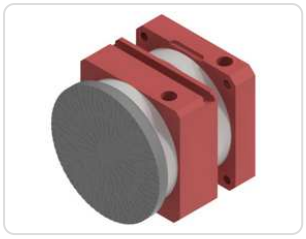
- Areas of application:
- - for handling workpieces made of ferromagnetic material
- - for sheets with holes and cut-outs

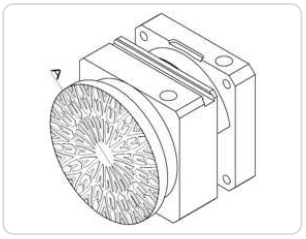
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT
MGR-P-10-P13	1-80-50-38-00-MGR	P13	10	15	70	M3	P13	2N	
MGR-P-16-P22	1-80-50-42-00-MGR	P22	16	24	70	M3	P22	30N	0.087Kg

Legend: B = piston Ø E = air connection G = gripping force Gripping force 10N = 1kg

MAGNET GRIPPER

MGR-P Magnet Gripper Pneumatic large version



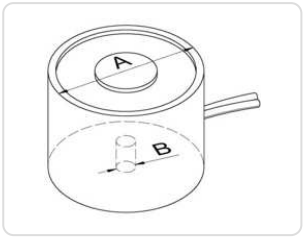


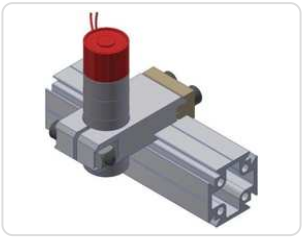
DESIGNATION	ITEM NO.	A
MGR-P-40-GV	1-69-52-10-00-MGR	46
MGR-P-70-GV	1-69-52-14-00-MGR	76

MAGNET GRIPPER

MGR-E Magnet Gripper Electrical







ADVANTAGES
- V1 - For gripping metal sheets

REMARK
- U = 24 Volt

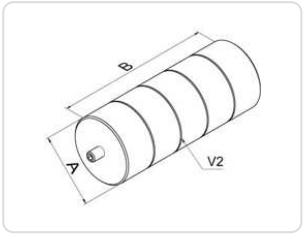
DOCUMENTS
- MGR-E.pdf
- Path

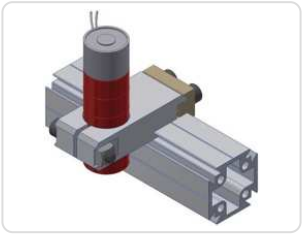
DESIGNATION	ITEM NO.	A	B	WEIGHT
MGR-E-20	1-80-50-10-00-MGR	20	M3	0.023Kg
MGR-E-30	1-80-50-12-00-MGR	30	M4	0.111Kg

MAGNET GRIPPER

AMG Adapter Magnet Gripper







ADVANTAGES
- V1 - easy to adapt to the AGS system
- V2 - Marking aid every 10 mm on the shaft for easy adjustment

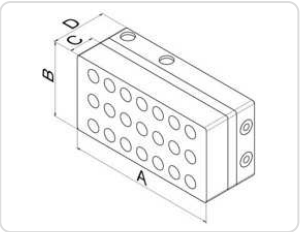
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
AMG-20-50	1-80-50-20-00-AMG	20	50	0.044Kg	MGR-20
AMG-30-80	1-80-50-22-00-AMG	30	80	0.161Kg	MGR-30

Legend: X = suitable for ...

AREA GRIPPER

FLG Surface Gripper





INFO

- Please contact us if you are interested!

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	WEIGHT
FLG-40-30-8	1-69-10-20-00-FLG	40	30	8	28	24N	-	-	60-kPa	0.042Kg
FLG-120-60-15	1-69-10-24-00-FLG	120	60	15	43	100N	5bar	1,17NL/S	85-kPa	0.6Kg

AREA GRIPPER

GKI-80-RD-V-P22 Gripper Cushion





ADVANTAGES

- V1 - the flexible gripper pad grips almost any object.
- V2 - Several parts with different geometries can be gripped at the same time, as the gripping pad moulds itself seamlessly to almost any surface.
- V3 - The gripping cushions filled with granulate are freely mouldable. This allows the gripping force to act on the entire object surface
- V4 - flexible objects are held flat
- V5 - ideal for MRK applications
- V6 - the gripper tolerates slight leaks during use
- V7 - the gripper pad can be filled with different granulates and can therefore be customised for specific applications
- V8 - changing the cushion package without tools
- V9 - no additional costs due to special grippers and set-up times

REMARK

- - Alternative gripper pad material: silicone and NBR

INFO

- Functional principle:
- - Gripping through negative pressure and form fit
- - Shape adaptation through flow of the granulate
- - Solidification of the gripper pad through the volume flow
- Scope of delivery:
- - Gripper cushion GKI-80-RD with
- vacuum generator and attachment
- Field of application:
- - for sensitive objects such as relay boards
- - for objects with complex or changing contours
- - for flexible parts
- - for collaborative applications
- - for all applications where gripping, clamping or clamping is required
- Standard configuration:
- - Gripper cushion made of PU with sealing lip and perforation
- - Filling 70% plastic granulate
- - with connection support and connection for DN32 hose
- other available peripherals and accessories:
- - Blowers in various performance classes
- - Valve and filter technology
- - Hose packages with connections
- - Adapter for quick assembly

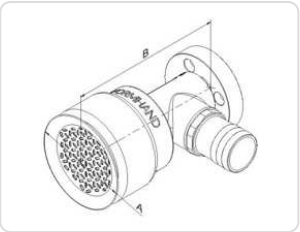
DESIGNATION	ITEM NO.	A	C	D	F	G
GKI-80-RD-V-P22	1-69-94-20-00-GKI	Ø80	40	20N	P22	1/8"

Legend: A = round contour C = Cushion height/ stroke D = maximum gripping force F = with prism .... G = Air connection

AREA GRIPPER

GKI-80-RD Gripper Cushion Ø80





ADVANTAGES

- V1 - the flexible gripper pad grips almost any object.
- V2 - Several parts with different geometries can be gripped at the same time, as the gripper pad moulds itself seamlessly to almost any surface.
- V3 - The gripper pads filled with granulate are freely deformable. This allows the gripping force to act on the entire object surface
- V4 - flexible objects are held flat
- V5 - ideal for HRC application
- V6 - the gripper tolerates slight leaks during use
- V7 - the gripper pad can be filled with different granulates and can therefore be customised for specific applications
- V8 - changing the cushion pack without tools
- V9 - no additional costs due to special grippers and set-up times

REMARK

- - alternative gripper pad material: silicone and NBR

INFO

- Functional principle:
- - Gripping through negative pressure and positive fit
- - Shape adaptation through flow of the granulate
- - Solidification of the gripper pad due to the volume flow

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GKI-80-RD	1-69-94-10-00-GKI	Ø80	141	40	20N	0.45Kg

Legend: C = Cushion height/stroke D = maximum gripping force

AREA GRIPPER

GKI-150-RD Gripper Cushion Ø150





ADVANTAGES

- V1 - The flexible gripper pad grips almost any object.
- V2 - Several parts with different geometries can be gripped at the same time, as the gripper pad moulds itself seamlessly to almost any surface.
- V3 - The gripping pads filled with granulate are freely deformable. This allows the gripping force to act on the entire object surface
- V4 - Flexible objects are held flat.
- V5 - Ideal for HRC application
- V6 - The gripper tolerates slight leaks during use
- V7 - The gripper pad can be filled with different granulates and can therefore be customised for specific applications
- V8 - Changing the cushion pack without tools
- V9 - No additional costs due to special grippers and set-up times

REMARK

- - Alternative gripper pad material: silicone and PU

INFO

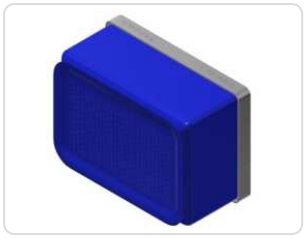
- Functional principle:
- - Gripping through negative pressure and form fit
- - Shape adaptation through flow of the granulate
- - Hardening of the gripper pad due to the volume flow
- Field of application:
- - for sensitive objects such as relay boards
- - for objects with complex or changing contours
- - for flexible parts
- - for collaborative applications
- - for all applications where gripping, clamping or clamping is required
- Standard configuration:
- - NBR gripper pad with sealing lip and perforation
- - Filling 70% plastic granulate
- - with connection support and connection for DN32 hose
- other available peripherals and accessories:
- - Blowers in different performance classes
- - Valve and filter technology
- - Hosepacks with connections
- - Adapter for quick assembly

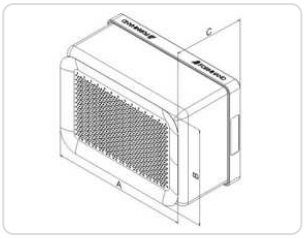
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
GKI-150-RD	1-69-94-14-00-GKI	Ø150	179	65	80N	2.65Kg

Legend: C = Cushion height/stroke D = maximum gripping force

AREA GRIPPER

GKI-300-200-RE Gripper Cushion 300×200





ADVANTAGES

- V1 - The flexible gripper pad grips almost any object.
- V2 - Several parts with different geometries can be gripped simultaneously, as the gripper pad moulds itself seamlessly to almost any surface.
- V3 - The gripping cushions filled with granulate are freely deformable. This allows the gripping force to act on the entire object surface
- V4 - Flexible objects are held flat.
- V5 - Ideal for HRC applications
- V6 - The gripper tolerates slight leaks during use
- V7 - The gripper pad can be filled with different granulates and can therefore be customised for specific applications
- V8 - Changing the cushion pack without tools
- V9 - No additional costs due to special grippers and set-up times

REMARK

- - Alternative gripper pad material: silicone and NBR

INFO

- Functional principle:
- - Gripping through negative pressure and form fit
- - Shape adaptation through flow of the granulate
- - Solidification of the gripper pad due to the volume flow
- Field of application:
- - for sensitive objects such as relay boards
- - for objects with complex or changing contours
- - for flexible parts
- - for collaborative applications
- - for all applications where gripping, clamping or clamping is required
- Standard configuration:
- - PU gripper pad with sealing lip and perforation
- - Filling 70% plastic granulate
- - with connection support and connection for DN32 hose
- Other available peripherals and accessories:
- - Blowers in different performance classes
- - Valve and filter technology
- - Hosepacks with connections
- - Adapter for quick assembly

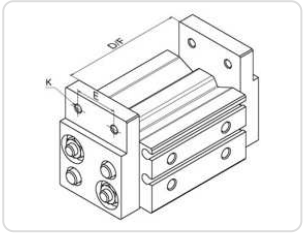
DESIGNATION	ITEM NO.	A	B	C	D	E
GKI-300-200-RE	1-69-94-30-00-GKI	300	200	154	126	250N

Legend: D = cushion height/ stroke E = maximum gripping force

LARGE STROKE GRIPPER

GHG-LC Parallel Gripper big





ADVANTAGES

- V1 - Guide recirculating ball bushing
- V2 - Standard mounting options
- V3 - Query gripper jaw position possible

REMARK

- Query with cylinder sensor ZYS-3,7-300-S
- or ZYS-3,7-2500-K possible
- Operating principle: Double-acting
- Operating pressure: 6bar filtered and dried air
- use

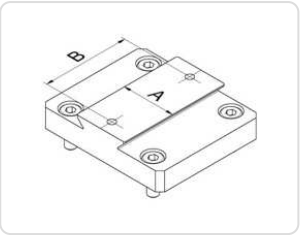
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	K	WEIGHT
GHG-10-20-LC	1-69-98-10-00-GHG	20	10	M5	76	20	56	40	10,8N	M4	0.288Kg
GHG-20-40-LC	1-69-98-16-00-GHG	40	20	M5	119	30	79	80	30N	M6	1.002Kg

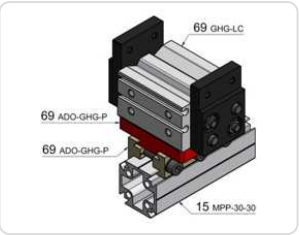
Legend: A = Opening stroke B = piston diameter C = Air connection D = jaws moved apart (open) F = retracted (closed) jaws G = Recommended gripper jaw length H = gripping force (at 6 bar) Gripping force 10N = 1kg K = Thread in gripper jaws

LARGE STROKE GRIPPER

ADO-GHG-P Adapterplate On Top for Parallel Gripper big







ADVANTAGES

- V1 - this allows the large lifting gripper GHG
- can be easily integrated into the PreciGrip system

REMARK

- Material: Aluminium
- Scope of delivery: incl. fastening material

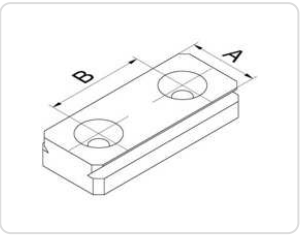
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
ADO-GHG-10-20	1-69-99-10-00-ADO	P22	34	0.057Kg	GHG-10-20-LC
ADO-GHG-20-40	1-69-99-16-00-ADO	P22	52	0.052Kg	GHG-20-40-LC

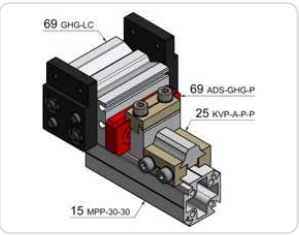
Legend: X = suitable for ...

LARGE STROKE GRIPPER

ADS-GHG-P Adapterplate Lateral for Parallelgripper big







ADVANTAGES

- V1 - this allows the large lifting gripper GHG
- can be easily integrated into the PreciGrip system

REMARK

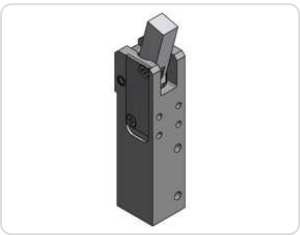
- Material: Aluminium
- Scope of delivery: incl. fastening material

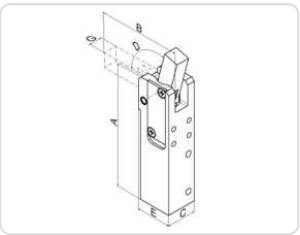
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
ADS-GHG-10-20	1-69-99-11-00-ADS	P22	30	0.025Kg	GHG-10-20-LC
ADS-GHG-20-40	1-69-99-17-00-ADS	P22	40	0.035Kg	GHG-20-40-LC

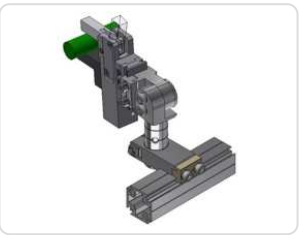
Legend: X = suitable for ...

ANGULAR CLAMP

WSP Angular clamp



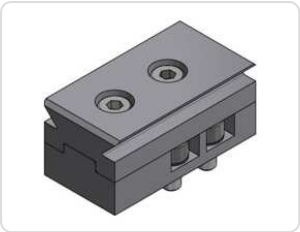
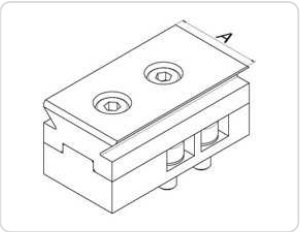


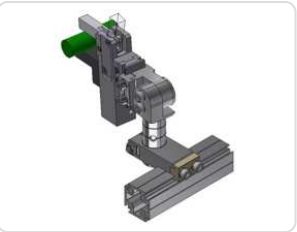


DESIGNATION	ITEM NO.	A	B	C	D	E	G	H	I	J	WEIGHT
WSP-10-105	1-69-40-10-00-WSP	83	55,5	20	105°	23,5	9	10,1	8Nm	M5	0.1Kg

ANGULAR CLAMP

ADA-WSP Adapter for Angular clamp



DESIGNATION	ITEM NO.	A	WEIGHT	X
ADA-WSP-10	1-69-40-80-00-ADA	P22	0.04Kg	WSP-10

Legend: X = suitable for angle clamps ....

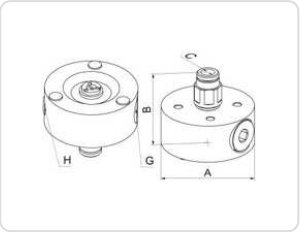
Socket inserts




REMARK
The price quoted is a guide price, the amount of which depends on the design conditions.

DESIGNATION	ITEM NO.
BEL	1-69-90-10-00-BEL

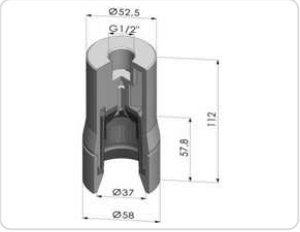
SBE Suction pads with Bernoulli effect

OPTION
- standardised fastening

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H
SBE-20-40-4	1-69-60-10-00-SBE	19,5	40	4	138Nl/min	2,5N	66dB(A)	M5	M5
SBE-40-33-4	1-69-60-16-00-SBE	40	33	4	180Nl/min	6,67N	74dB(A)	G1/8	M5

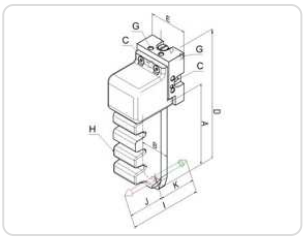
MBG Membrane gripper

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
MBG-58-37	1-69-62-10-00-MBG	58	37	112	G1/2	0.13Kg

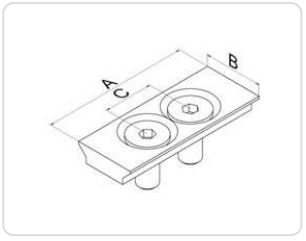
Legend: D = Compressed air connection

SFG-1F-LV 1-finger soft gripper large version,


DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	WEIGHT	X
SFG-1F-41-24-M5-LV	1-69-71-52-00-SFG	41	24	M5	82	31	45	M4	2	16,5	8	8,5	0.092Kg	AG
SFG-1F-69-24-M5-LV	1-69-71-56-00-SFG	69	24	M5	110	31	45	M4	4	43,5	19	24,5	0.106Kg	AG
SFG-1F-97-24-M5-LV	1-69-71-60-00-SFG	97	24	M5	138	31	45	M4	6	90	8	8,5	0.12Kg	AG

APL-SFG-P Adapter plate for soft grippers

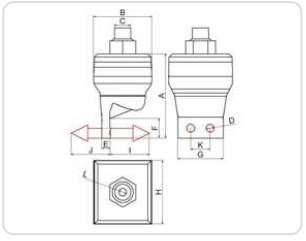

REMARK

- Material: Aluminium
- Contents:
- incl. fixing materials

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APL-SFG-1F-LV-30-P13	1-69-72-10-00-APL	30	P13	10	0.006Kg	SGR-1F-LV

Legend: X = suitable for ...

SFG-1F 1-finger-soft-gripper

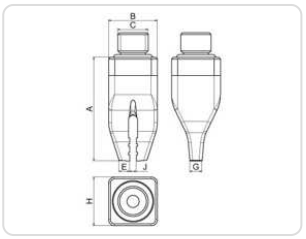




Various sizes available on request.

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J	N	O	WEIGHT	X	K
SFG-1F-20-10-M5-0	1-69-70-10-00-SFG	20	10	M5	-	2,5	3,5	7	10	4	1,8	0,7N	17g	0.016Kg	AG	
SFG-1F-26-20-M5-0	1-69-70-14-00-SFG	26	18.1	M5	-	2,7	4	14	20	5	1,9	2,5N	62g	0.007Kg	AG	-
SFG-1F-26-20-M5-M2.5	1-69-70-18-00-SFG	26	18,1	M5	M2.5	2,7	4	14	20	5	1,9	2,5N	62g	0.007Kg	AG	6
SFG-1F-52-40-18-0	1-69-70-22-00-SFG	52	30	G1/8	-	3,9	10	36	40	11	5	14,2N	354g	0.078Kg	AG	-

SFG-2F-SB 2-finger soft gripper narrow jaws





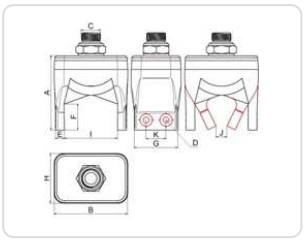


The AGS soft gripper is an innovative and remarkable device in the field of robotics and automation. The AGS soft gripper is equipped with advanced soft material technology, which gives it unique flexibility and adaptability. Unlike conventional rigid grippers, the AGS soft gripper adapts to the shape of different objects. This makes it ideal for handling objects with irregular shapes, such as delicate handicrafts, soft fabrics or sensitive electronic components, without damaging them during gripping. Various sizes available on request.

DESIGNATION	ITEM NO.	A	B	C	E	G	H	L	M	N	O	WEIGHT	X
SFG-2F-17-8-M5-0-IG-SB	1-69-70-50-00-SFG	17	8	M5	1,7	2	8	0-2,5	1	0.6N	24g	0.001Kg	AG
SFG-2F-29-14-M5-0-SB	1-69-70-54-00-SFG	29	14	M5	1.5	4	14	3-8	5	0.5N	21g	0.007Kg	IG

SFG-2F-BB 2-finger soft gripper wide jaws with





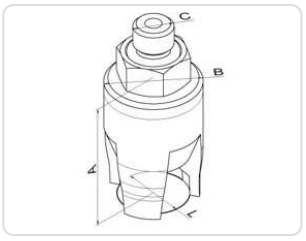


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DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	WEIGHT	X
SFG-2F-21-14-M5-0-BB	1-69-70-58-00-SFG	21	14,5	M5	-	1,5	8,2	7	9	11	0,0	-	8-13	11	0,6N	26g	0.005Kg	AG
SFG-2F-34-2718-0-BB	1-69-70-62-00-SFG	34	27	G1/8	-	4,5	9	12	25	16,1	0,0	-	0-18	16,5	7,5N	299g	0.02Kg	AG
SFG-2F-37-25-18-0-BB	1-69-70-66-00-SFG	37	37	G1/8	-	4,4	11	22	25	25,8	4	-	3-30	25,5	8,5N	338g	0.024Kg	AG
SFG-2F-37-37-18-M3-BB	1-69-70-70-00-SFG	37	37	G1/8	2xM3	4,4	11	22	25	25,8	2	10	3-30	25,5	7,1N	282g	0.028Kg	AG

SFG-3F 3-finger soft gripper







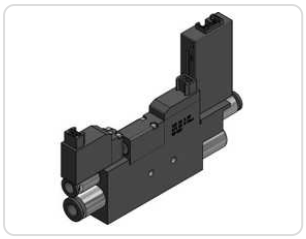
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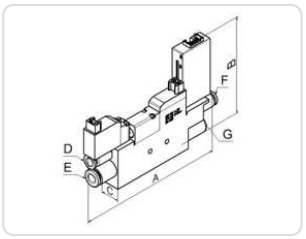
ADVANTAGES

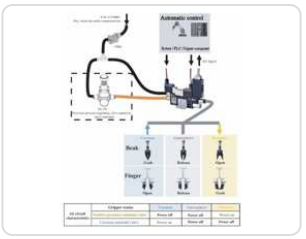
- V1 - The AGS soft gripper is equipped with advanced soft-material technology. This gives it unique flexibility and adaptability.
- V2 - AGS soft grippers are designed for fast and precise automation. Their compact design and low inertia reduce vibrations and energy consumption when handling small or delicate parts.
- V3 - The AGS soft gripper is ideal for applications where speed, responsiveness and gentle handling are crucial.
- V4 - The soft gripper adapts to the shape of various objects. It is therefore ideally suited for handling items with irregular shapes without damaging them during gripping. This opens up a wide range of applications, for example in food processing, textile handling, the handling of electronic components and automotive parts, injection-moulded parts, medical products and high-speed pick-and-place automation.
- V5 - Food-grade materials are used. Safe, stable and efficient automation in food processing and packaging lines is guaranteed.
- V6 - All versions of the soft gripper can be easily integrated into our AGS gripper system.

DESIGNATION	ITEM NO.	A	B	C	H	I	J	K	L	M	N	O	WEIGHT	X
SFG-3F-20-8-M5-0	1-69-71-10-00-SFG	20	8	M5	-	-	-	-	0,5-2	1,2	68g	0,9	0.001Kg	AG
SFG-3F-17-12-M5-0-IAG	1-69-71-14-00-SFG	17	12	M5	11-14	12	26g	0,4N	4-11	8	38g	0,5N	0.004Kg	IG+AG
SFG-3F-38-24-18-0-IAG	1-69-71-18-00-SFG	38	24	G1/8	24-30	24	329g	4,4N	6-20	16	122g	1,6N	0.017Kg	IG+AG
SFG-3F-42-51-18-M3	1-69-71-22-00-SFG	41,5	51	G1/8	-	-	-	-	10-35	36	1430g	19N	0.044Kg	AG

SEH Control unit for soft grippers







Used to control the AGS soft gripper modules. The module closes with pressure and opens with vacuum - very sensitive

DOCUMENTS

- LCU-S Bedienungsanleitung_AGS (DE).pdf
- Path
- LCU-S User manual_AGS_2 (EN).pdf
- Path
- Auswahlhilfe Antriebseinheiten_AGS (DE).pdf
- Path
- Controller Selection Guide_AGS_2 (EN).pdf
- Path

DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT
SEH	1-96-56-10-00-SEH	111	75	14	6	6	6	0.127Kg

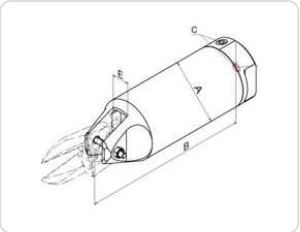
70.0 Sprue Cutters

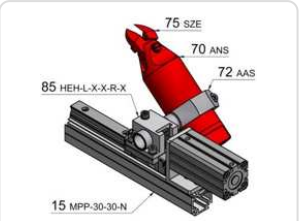


70.0 - SPRUE CUTTER

ANS Sprue Cutter (Body)







INFO

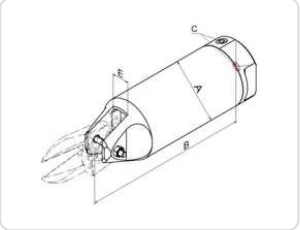
- Suggested selection:

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
ANS-03	1-70-10-02-00-ANS	23	110	G1/8	4-5bar	7	0.07Kg
ANS-05	1-70-10-04-00-ANS	30	95	G1/8	4-5bar	7	0.106Kg
ANS-07	1-70-10-06-00-ANS	34	114	G1/8	4-5bar	9	0.145Kg
ANS-10	1-70-10-08-00-ANS	36	106	G1/8	4-6bar	12	0.156Kg
ANS-20	1-70-10-10-00-ANS	45	130	G1/8	5-6bar	12	0.28Kg
ANS-30	1-70-12-10-00-ANS	56	165	G1/8	5-6bar	17	0.508Kg
ANS-50	1-70-14-10-00-ANS	75	170	G1/4	5-6bar	25	1Kg

70.0 - SPRUE CUTTER

ANS-KV Sprue Cutting Pliers (Body), Power-Assisted





REMARK

- Operating principle: Single-acting

DOCUMENTS

- ANS-KV_Bedienungsanleitung.pdf
- Path

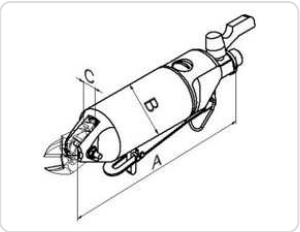
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
ANS-20-KV	1-70-54-10-00-ANS	45	130	G1/8	4-6bar	12	0.27Kg
ANS-30-KV	1-70-54-14-00-ANS	56	165	G1/8	5-6bar	17	0.496Kg

Legend: C = Air connection

70.0 - SPRUE CUTTER

ANS-H Sprue Cutter Manual





ADVANTAGES

- V1 - manual operation
- V2 - safety lock
- V3- various cutting pliers inserts available
- V4 – especially for plastic sprues

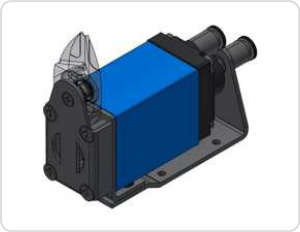
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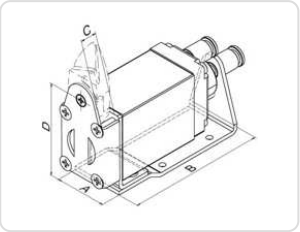
- Scope of delivery:
- with rotary valve and safety lock
- Sprue cutting pliers are supplied without cutting insert
- Suggested selection:
- Select the cutting pliers insert according to the type of application and then select the corresponding body

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
ANS-10-H	1-70-08-90-00-ANS	132	34	9	0.21Kg
ANS-20-H	1-70-10-90-00-ANS	192	45	12	0.454Kg
ANS-30-H	1-70-12-90-00-ANS	230	56	17	0.707Kg
ANS-50-H	1-70-14-90-00-ANS	230	75	25	1.082Kg

70.0 - SPRUE CUTTER

ANS-WH-E Sprue Cutter Angle Stroke Easy





ADVANTAGES

- V1 – Simple sprue cutting unit with feed
- V2 – Single-acting pliers stroke
- V3 – Integration into the system using standard components

REMARK

- Operating principle: Pliers movement and stroke single-acting
- with spring return

INFO

- Contents:
- without cutting insert
- Add the AAS-WH sprue-cutting pliers adapter directly

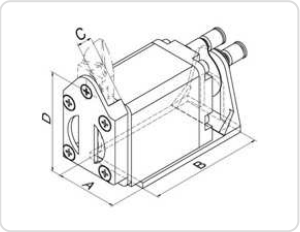
DESIGNATION	ITEM NO.	A	B	C	D	E	L	M	N	WEIGHT	X
ANS-WH-10-E	1-70-50-10-00-ANS	28	83	7	51	8	2,3	3,5	3	0.214Kg	AAS-WH-10-20-50
ANS-WH-25-E	1-70-50-16-00-ANS	42	108	10	68	11	3,4	5	5	0.569Kg	AAS-WH-25-30-50

Legend: E = Cutting edge opening L = max. sprue Ø soft plastic M = max. sprue diameter, hard plastic (e.g. PP) N = stroke X = suitable for ... AAS sprue-cutting pliers adapter

70.0 - SPRUE CUTTER

ANS-WH-P Sprue Cutter Angle Stroke Precision





ADVANTAGES

- V1 - Adjustable precision prism guide
- V2 – Double-acting plier stroke
- V3 – Integration into the system using standard components

REMARK

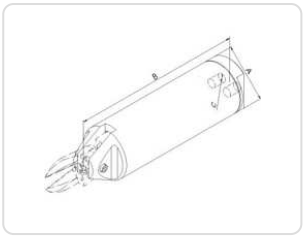
- How it works: forward, reverse and cut

DESIGNATION	ITEM NO.	A	B	C	D	E	L	M	N	WEIGHT	X
ANS-WH-10-P	1-70-52-10-00-ANS	30	83	7	55	8	2,3	3,5	3	0.29Kg	AAS-WH-10-20-50
ANS-WH-25-P	1-70-52-16-00-ANS	44	104	10	72	11	3,4	5	5	0.697Kg	AAS-WH-25-30-50

Legend: E = Cutting edge opening L = max. sprue Ø soft plastic M = max. sprue Ø hard plastic (e.g. PP) N = stroke X = suitable for ... AAS sprue-cutting pliers adapter

70.0 - SPRUE CUTTER

ANS-DW Sprue Cutter double acting (Body)


ADVANTAGES

- V1 - the double-acting sprue cutting pliers enable targeted and safe opening and closing of the SZE cutting insert
- V2 - lower cycle times can be achieved than with the single-acting ANS

REMARK

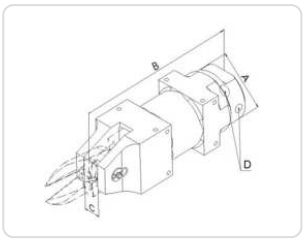
- Cutting pliers insert SZE-DW and SZE-H-DW is ordered separately
- Operating principle: double-action
- Operating pressure: 6bar use filtered and dried air

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ANS-20-DW	1-70-20-10-00-ANS	45	174,5	G1/8"	1370N	0.523Kg
ANS-30-DW	1-70-20-12-00-ANS	56	229,5	G1/4"	2744N	0.523Kg

Legend: C = air connection D = theoretical piston force (at 6 bar) Gripping force 10N=1kg

70.0 - SPRUE CUTTER

ANS-Q Sprue Cutter Square

ADVANTAGES

- V1 - various cutting pliers inserts available
- V2 - especially for plastic sprues
- V3 - compatible with other market competitors

REMARK

- Different designs available on request
- Reinforced design possible in the head area
- (ANS-Q-20, ANS-Q-30)
- Operating principle: Single-action

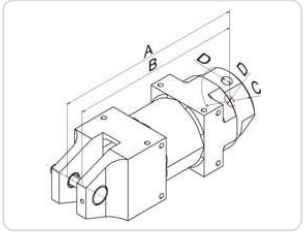
INFO

- Suggested selection:
- Select the cutting pliers insert according to the type of application and then select the corresponding body

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
ANS-Q-3	1-70-51-10-00-ANS	23	110	7	1/8"	4-5bar	0.094Kg
ANS-Q-5	1-70-51-12-00-ANS	30	94	7	1/8"	4-5bar	0.134Kg
ANS-Q-7	1-70-51-14-00-ANS	36	114	9	1/8"	4-5bar	0.217Kg
ANS-Q-10	1-70-51-16-00-ANS	36	114	12	1/8"	4-6bar	0.208Kg
ANS-Q-20	1-70-51-18-00-ANS	45	129	12	1/8"	5-6bar	0.367Kg
ANS-Q-30	1-70-51-20-00-ANS	56	171	17	1/8"	5-6bar	0.683Kg

70.0 - SPRUE CUTTER

ANS-Q-SCH Sprue cutting pliers - Scissors

REMARK

- Operating pressure: 3 bar, use filtered and dried air

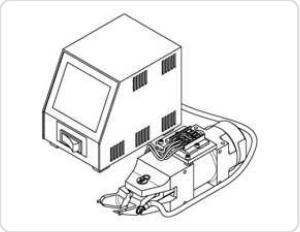
DESIGNATION	ITEM NO.	A	B	C	D	X
ANS-Q-30-SCH	1-70-22-10-00-ANS	170	155	56	G1/8	SZE-30-M-SCH

Legend: D = air connection

70.0 - SPRUE CUTTER

ASB Sprue Cutting unit heated





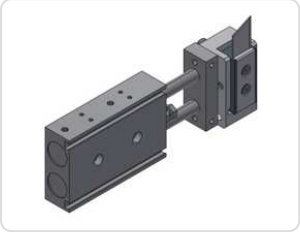
REMARK

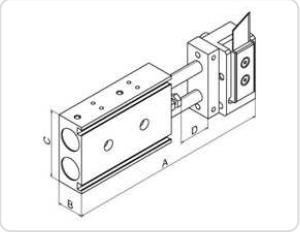
- - Sprue cutting pliers incl. heating 80W/120V
- - Temperature up to 140°C
- - Cartridge heaters
- - Cutting pliers insert
- - Temperature sensor
- - Control unit

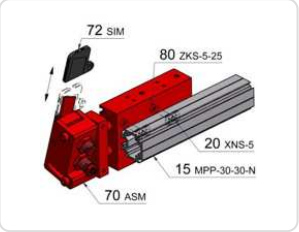
DESIGNATION	ITEM NO.	WEIGHT
ASB-30	1-72-50-00-00-ASB	2.218Kg

70.0 - SPRUE CUTTER

ASM Sprue Cutting unit Knife







ADVANTAGES

- V1 - standard component for cutting film sprues (or narrow sprues)
- V2 - Knife blade can be positioned on the component by spring force or cylinder
- V3 - knife blade - adjustable angle to the component
- V4 - knife unit 180° rotatable
- V5 - pulling and pushing cut possible

REMARK

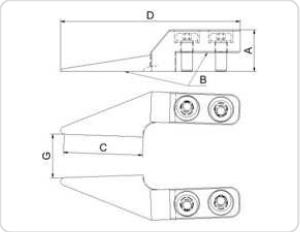
- Other grinding patterns available
- M5 air connection
- Can be attached to the MPP-30-30-N profile with XNS-5 sliding block, ZKS-5-25 cylinder head screw

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ASM-16-30	1-72-00-10-00-ASM	152	25	64	30	0.649Kg

72.0 - CUTTING PLIERS INSERTS

SZE-AS-0-S Sprue Cutter Basic Body Blades for SZE-AS-K with cutting blades 0°







ADVANTAGES

- V1 - cutting blades with different cutting angles are available
- V2 - cost-effective variant, as only the cutting blades need to be replaced in the event of wear or other use

REMARK

- Scope of delivery:
- PU = 1 set consisting of a right and a left blade
- Price= 1 set
- Incl. fixing material

INFO

- Scope of delivery:
- PU = 1 set consisting of one
- right and left cutting blade
- Price: 1 set
- incl. mounting material

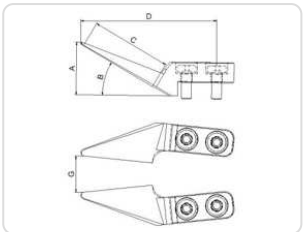
DESIGNATION	ITEM NO.	A	B	C	D	E	G	X
SZE-AS-0°-27-S	1-75-22-30-00-SZE	11	0°	27	45	75	18	SZE-AS-30-K

Legend: B = Cutting edge angle E = Dimension between joint centre and cutting edge tip G = max. cutting edge opening when used in the ANS-30 X = suitable for base body ....

72.0 - CUTTING PLIERS INSERTS

SZE-AS-X-S Sprue Cutter Basic Body Blades for SZE-AS-K with cutting blades angularly







ADVANTAGES

- V1 - cutting blades with different cutting angles are available
- V2 - cost-effective variant, as only the cutting blades need to be replaced in the event of wear or other use

REMARK

- Scope of delivery:
- PU = 1 set consisting of a right and a left blade
- Price = 1 set
- Incl. fixing material

INFO

- Scope of delivery:
- PU = 1 set consisting of one
- right and left cutting blade
- Price: 1 set
- incl. fastening material

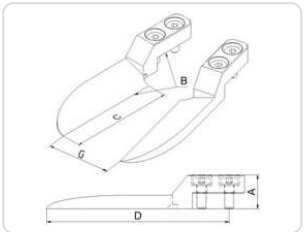
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT	X
SZE-AS-15°-21-S	1-75-24-50-00-SZE	10	15°	21	40	7	71	18	0.016Kg	SZE-AS-30-K
SZE-AS-30°-23-S	1-75-24-52-00-SZE	10	30°	23	40,5	15,5	71,5	18	0.02Kg	SZE-AS-30-K

Legend: B = Cutting edge angle F = Dimension between joint centre and cutting edge tip G = max. cutting edge opening when used in the ANS-30 X = suitable for base body ....

72.0 - CUTTING PLIERS INSERTS

SZE-AS-0-G-S Sprue Cutter Basic Body Blades for SZE-AS-K with rounded tips







ADVANTAGES

- V1 - cutting blades with different cutting angles are available
- V2 - cost-effective variant, as only the cutting blades need to be replaced in the event of wear or other use

REMARK

- Scope of delivery:
- PU = 1 set consisting of a right and a left blade
- Price = 1 set
- Incl. fixing material

INFO

- Scope of delivery:
- PU = 1 set consisting of a
- right and left cutting blade
- Price: 1 set
- incl. mounting material

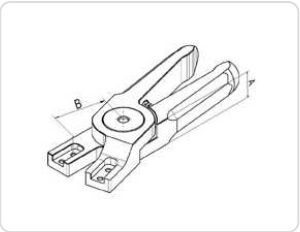
DESIGNATION	ITEM NO.	A	B	C	D	E	G	WEIGHT	X
SZE-AS-0°-40-G-S	1-75-22-32-00-SZE	11	0°	39,5	59,5	90	23	0.023Kg	SZE-AS-30-K

Legend: B = Cutting edge angle E = Dimension between joint centre and cutting edge tip G = max. cutting edge opening when used in the ANS-30 X = suitable for basic body ....

72.0 - CUTTING PLIERS INSERTS

SZE-AS-K Sprue Cutter Basic Body for various blades





ADVANTAGES

- V1 – this basic body can be fitted with different
- cutting blades
- V2 - quick and easy replacement of the cutting blades
- V3 – low-cost variant

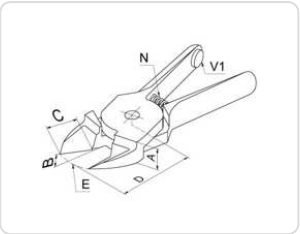
DESIGNATION	ITEM NO.	A	B	X
SZE-AS-30-0-K	1-75-20-10-00-SZE	17	31	ANS-30

Legend: X = suitable for sprue cutting pliers ANS-....

72.0 - CUTTING PLIERS INSERTS

SZE cutting pliers inserts Standard





ADVANTAGES

- V1 - with stop for long tool life

REMARK

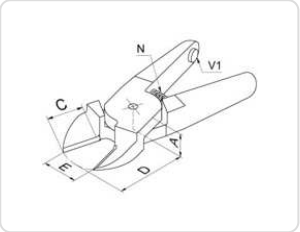
- Various cutting pliers inserts available on request

DESIGNATION	ITEM NO.	A	B	C	D	E	N	O	WEIGHT	X
SZE-03-15-11	1-75-02-04-00-SZE	7	15	11	24	4,5	-	2	0.027Kg	ANS-03
SZE-05-15-11	1-75-02-08-00-SZE	7	15	11	24	3,5	-	2	0.033Kg	ANS-05
SZE-07-30-11	1-75-02-12-00-SZE	9	30	11	25	4	DRF-SZE-0,7-5,5-22	3 (2)	0.072Kg	ANS-07
SZE-10-15-16	1-75-02-16-00-SZE	12	15	16	35	5	DRF-SZE-0,7-5,5-22	4 (2,6)	0.116Kg	ANS-10
SZE-10-30-11	1-75-02-20-00-SZE	9	30	11	27,5	5	DRF-SZE-0,7-5,5-22	4 (2,6)	0.079Kg	ANS-10-H
SZE-10-40-13	1-75-02-24-00-SZE	12	40	13	37	5	DRF-SZE-0,7-5,5-22	4 (2,6)	0.118Kg	ANS-10
SZE-20-15-16	1-75-02-28-00-SZE	12	15	16	36	9,5	DRF-SZE-0,7-5,5-22	7 (5)	0.122Kg	ANS-20
SZE-20-23-25	1-75-02-30-00-SZE	12	23	25	45	12	DRF-SZE-0,7-5,5-22	7 (5)	0.141Kg	ANS-20
SZE-20-40-14	1-75-02-32-00-SZE	12	40	14	35	11	DRF-SZE-0,7-5,5-22	7 (5)	0.123Kg	ANS-20
SZE-30-30-26	1-75-02-36-00-SZE	17	30	26	58	16 (27)	DRF-SZE-1-8-28	10 (6,5)	0.37Kg	ANS-30/ANS-50

72.0 - CUTTING PLIERS INSERTS

SZE-X-0-X Sprue Cutters Blades 0°





ADVANTAGES

- V1 - with stop for long tool life

DESIGNATION	ITEM NO.	A	B	C	D	E	N	O	WEIGHT	X
SZE-05-0-36-15	1-75-12-04-00-SZE	7	0°	15,5	36	6,5	-	2	0.047Kg	ANS-05
SZE-07-0-47-21	1-75-12-08-00-SZE	9	0°	21	47	8	DRF-SZE-0,7-5,5-22	3	0.093Kg	ANS-07
SZE-10-0-61-34	1-75-12-09-00-SZE	12	0°	34	61	10		3,5(2)	0.16Kg	ANS-10
SZE-20-0-65-20	1-75-12-11-00-SZE	12	0°	20	65	16		6(4)	0.23Kg	ANS-20

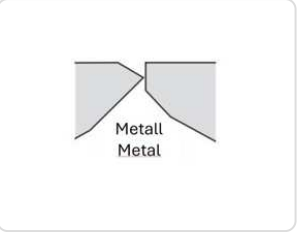
DESIGNATION	ITEM NO.	A	B	C	D	E	N	O	WEIGHT	X
SZE-20-0-35-20	1-75-12-12-00-SZE	12	0°	18,5	35	11,7	DRF-SZE-0,7-5,5-22	7 (5)	0.017Kg	ANS-20
SZE-20-0-61-34	1-75-12-13-00-SZE	12	0°	36	61	14		6,5(4,5)	0.18Kg	ANS-20
SZE-30-0-52-28	1-75-12-16-00-SZE	17	0°	29	52	11,7 (23,9)	DRF-SZE-1-8-28	10 (6,5)	0.054Kg	ANS-30/50
SZE-30-0-65-41	1-75-12-18-00-SZE	17	0°	41	65	17	DRF-SZE-1-8-28	10 (6,5)	0.05Kg	ANS-30/50
SZE-30-0-75-25	1-75-12-20-00-SZE	17	0°	25	75	19,0 (34,0)	DRF-SZE-1-8-28	10 (6,5)	0.434Kg	ANS-30/50

72.0 - CUTTING PLIERS INSERTS

SZE-M-X-0-X Sprue Cutter Blades 0° for metal cutting







REMARK

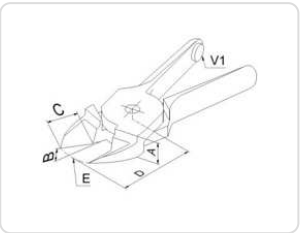
We will be happy to provide you with the current prices on request.

DESIGNATION	ITEM NO.	A	B	C	D	E	F	O	WEIGHT
SZE-M-03-0-24-13	1-75-30-50-00-SZE	7	0°	13	24	5	ANS-03	0,5(1)	0.04Kg
SZE-M-05-0-24-13	1-75-30-54-00-SZE	7	0°	13	24	4	ANS-05	0,5(1)	0.04Kg
SZE-M-07-0-27-13	1-75-30-58-00-SZE	9	0°	13	27	5	ANS-07	0,5(1)	0.08Kg

72.0 - CUTTING PLIERS INSERTS

SZE-M-DW Sprue Cutter Blades for double-acting ANS-DW metal cutting



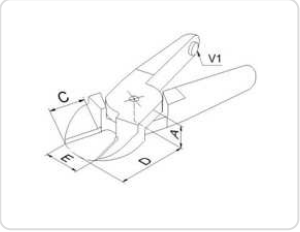


DESIGNATION	ITEM NO.	A	B	C	D	E	O	WEIGHT	X
SZE-M-20-0-40-21-DW	1-75-30-30-00-SZE	12	0°	21,5	40	8	2	0.14Kg	ANS-20-DW
SZE-M-30-0-55-30-DW	1-75-30-34-00-SZE	17	0°	29,5	55	11	2,8	0.37Kg	ANS-30-DW

72.0 - CUTTING PLIERS INSERTS

SZE-DW Sprue Cutter Blades for double-acting ANS-DW





ADVANTAGES

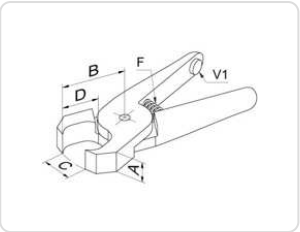
- V1 - with stop for long tool life
- V2 - longer service life

DESIGNATION	ITEM NO.	A	B	C	D	E	O	WEIGHT	X
SZE-20-0-40-21-DW	1-75-30-20-00-SZE	12	0°	21,5	40	8	6,5	0.142Kg	ANS-20-DW
SZE-30-0-55-30-DW	1-75-30-24-00-SZE	17	0°	29,5	55	11	9,5	0.368Kg	ANS-30-DW

72.0 - CUTTING PLIERS INSERTS

SZE-X-180-X Sprue Cutter Blade 180° pinch





ADVANTAGES
- V1 - with stop for long tool life

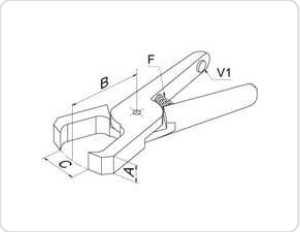
REMARK
- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. pressure spring

DESIGNATION	ITEM NO.	A	B	C	F	O	WEIGHT	X	D
SZE-03-180-7	1-75-14-04-00-SZE	7	20	3,5	-	2	0.03Kg	ANS-03	
SZE-05-180-7	1-75-14-08-00-SZE	7	20	3,5	-	2	0.037Kg	ANS-05	
SZE-07-180-9-15	1-75-14-12-00-SZE	9	26	4	DRF-SZE-0,7-5,5-22	3 (2)	0.075Kg	ANS-07/ANS-10-H	15
SZE-10-180-12	1-75-14-16-00-SZE	12	28	5	DRF-SZE-0,7-5,5-22	4 (2,6)	0.115Kg	ANS-10	
SZE-20-180-12	1-75-14-20-00-SZE	12	28	8	DRF-SZE-0,7-5,5-22	7 (5)	0.122Kg	ANS-20	
SZE-30-180-17-28	1-75-14-28-00-SZE	17	45	12	DRF-SZE-1-8-28	10 (6,5)	0.352Kg	ANS-30	28

72.0 - CUTTING PLIERS INSERTS

SZE-X-180-X-L Sprue Cutter Blade 180° pinch long





ADVANTAGES
- V1 - with stop for long tool life

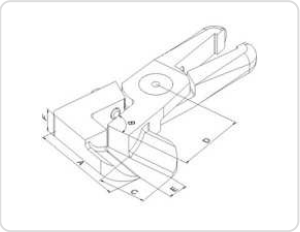
REMARK
- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. pressure spring

DESIGNATION	ITEM NO.	A	B	C	F	O	WEIGHT	X
SZE-20-180-12-L	1-75-14-24-00-SZE	12	48	12,5	DRF-SZE-0,7-5,5-22	7 (5)	0.192Kg	ANS-20
SZE-30-180-17-L	1-75-14-32-00-SZE	17	93	22 (42)	DRF-SZE-1-8-28	10 (6,5)	0.506Kg	ANS-30(ANS-50)

72.0 - CUTTING PLIERS INSERTS

SZE-Q-X-90-X Sprue Cutter Blade Z-shape







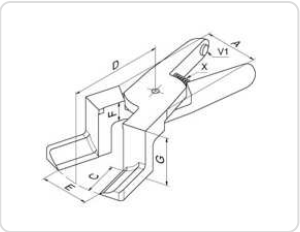
ADVANTAGES
- V1 - with stop for long tool life

DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	N	O	WEIGHT	X
SZE-Q-20-90-41-27-LV	1-75-10-50-00-SZE	55	90°	27	41	9,5	12	10×1.5	8×1	ANS-20	0.175Kg	DRF-SZE-0,7-5,5-22
SZE-Q-20-90-41-27-RV	1-75-10-51-00-SZE	55	90°	27	41	9,5	12	10×1.5	8×1	ANS-20	0.18Kg	DRF-SZE-0,7-5,5-22
SZE-Q-30-90-39-36-LV	1-75-10-52-00-SZE	68	90°	36	39	13	17	15×2	10×1.5	ANS-30	0.48Kg	DRF-SZE-1-8-28
SZE-Q-30-90-39-36-RV	1-75-10-53-00-SZE	68	90°	36	39	13	17	15×2	10×1.5	ANS-30	0.48Kg	DRF-SZE-1-8-28

72.0 - CUTTING PLIERS INSERTS

SZE-Z-X-0-X Sprue Cutter Blade Across





ADVANTAGES

- V1 - with stop for long tool life

REMARK

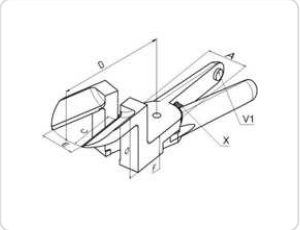
- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. pressure spring

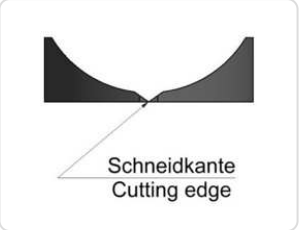
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	N	O	WEIGHT	X
SZE-Z-20-0-60-23	1-75-10-40-00-SZE	28	0°	23	60	16	12	31	6	ANS-20	0.205Kg	DRF-SZE-0,7-5,5-22
SZE-Z-30-0-81-32	1-75-10-42-00-SZE	32	0°	32	81	23	17	65		ANS-30	0.465Kg	DRF-SZE-1-8-28

72.0 - CUTTING PLIERS INSERTS

SZE-Z-X-0-X-R Sprue Cutter Blade Across cutting rearward







ADVANTAGES

- V1 - with stop for long tool life

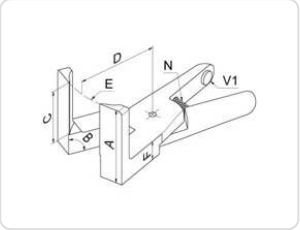
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	O	WEIGHT	X
SZE-Z-20-0-65-29-R	1-75-10-41-00-SZE	24	0°	29	65	20,5	12	37	ANS-20	0.205Kg	DRF-SZE-0,7-5,5-22

Legend: E = Cutting edge opening O= suitable for cutting pliers ... X = compression spring

72.0 - CUTTING PLIERS INSERTS

SZE-X-90-X Sprue Cutter Blade 90°





ADVANTAGES

- V1 - with stop for long tool life

REMARK

- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. compression spring

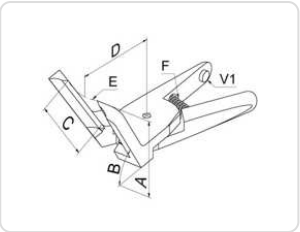
DESIGNATION	ITEM NO.	A	B	C	D	E	F	N	WEIGHT	X
SZE-20-90-18	1-75-08-02-00-SZE	32	90°	18	45	12	12	DRF-0,7-5,5-22	0.232Kg	ANS-20
SZE-20-90-34	1-75-08-04-00-SZE	48	90°	34	50	13	12	DRF-0,7-5,5-22	0.259Kg	ANS-20
SZE-30-90-41	1-75-08-08-00-SZE	60	90°	41	65	18 (31)	17	DRF-SZE-1-8-28	0.541Kg	ANS-30/ANS-50

Legend: E = cutting edge opening N = compression spring X = suitable for cutting pliers ... ( ) = for ANS-50

72.0 - CUTTING PLIERS INSERTS

SZE-X-0-X-X-R Sprue Cutter Blade 60° cutting rearward





ADVANTAGES

- V1 - with stop for long tool life

REMARK

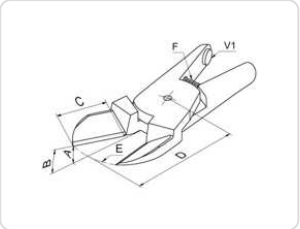
- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. compression spring

DESIGNATION	ITEM NO.	A	B	C	D	E	N	O	WEIGHT	X
SZE-20-60-40-R	1-75-06-04-00-SZE	48	60°	40	50	14	DRF-SZE-0,7-5,5-22	6,5 (4,5)	0.185Kg	ANS-20
SZE-30-30-44-R	1-75-06-06-00-SZE	31	30°	44	77	21	DRF-SZE-1-8-28	8 (6)		ANS-30
SZE-30-60-37-R	1-75-06-08-00-SZE	48	60°	44	56	15	DRF-SZE-1-8-28	8 (6)	0.388Kg	ANS-30

72.0 - CUTTING PLIERS INSERTS

SZE-X-0-X-X Sprue Cutter Blade Long





ADVANTAGES

- V1 - with stop for long service life

REMARK

- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. pressure spring

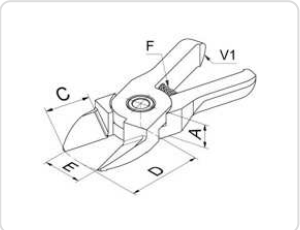
DESIGNATION	ITEM NO.	A	B	C	D	E	F	M	WEIGHT	O
SZE-10-15-35	1-75-04-04-00-SZE	6	15°	35	61	10	DRF-0,7-5,5-22	ANS-10	0.165Kg	
SZE-20-40-27	1-75-04-08-00-SZE	25	40°	27	51	14	DRF-0,7-5,5-22	ANS-20	0.191Kg	
SZE-30-15-38	1-75-04-09-00-SZE	16,5	15°	41	66	15(29)	DRF-SZE-1-8-28	ANS-30/ANS-50	0.191Kg	10 (6,5)
SZE-30-30-50	1-75-04-10-00-SZE	25	30°	50	75	20	DRF-SZE-1-8-28	ANS-30/ANS-50	0.374Kg	
SZE-30-40-50-76	1-75-04-12-00-SZE	38	40°	50	76	22 (37)	DRF-SZE-1-8-28	ANS-30/ANS-50	0.404Kg	
SZE-30-60-32	1-75-04-16-00-SZE	43	60°	47	60	16(27)	DRF-SZE-1-8-28	ANS-30/ANS-50		

Legend: E = cutting edge opening F = compression spring M = suitable for cutting pliers ... ( ) = for ANS-50

72.0 - CUTTING PLIERS INSERTS

SZE-X-00-X Sprue Cutter Blade 0°





ADVANTAGES

- V1 - with stop for long tool life

REMARK

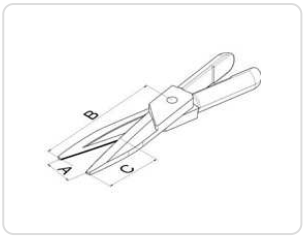
- Various cutting pliers inserts available on request
- Scope of delivery:
- incl. pressure spring

DESIGNATION	ITEM NO.	A	B	C	D	E	F	O	WEIGHT	X
SZE-10-00-12	1-75-00-50-00-SZE	7	0°	12	24	8	-	3,5 (2,3)	0.026Kg	ANS-WH-10
SZE-25-00-17	1-75-00-56-00-SZE	10	0°	17	31	11	DRF-SZE-0,7-5,5-22	5 (3,4)	0.066Kg	ANS-WH-25

72.0 - CUTTING PLIERS INSERTS

SZE-M-SCH Cutting pliers insert Metal cutting scissors





ADVANTAGES

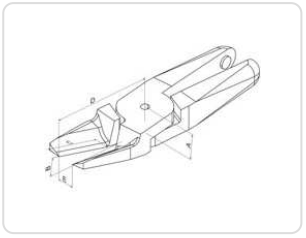
- V1 - especially for sheet metal and synthetic materials such as Kevlar

DESIGNATION	ITEM NO.	A	B	C	O	WEIGHT	X
SZE-30-26-105-50-M-SCH	1-75-34-10-00-SZE	26	105	50	1	0.28Kg	ANS-Q-30-SCH

72.0 - CUTTING PLIERS INSERTS

SZE-MRS Cutting pliers insert with magnetic return



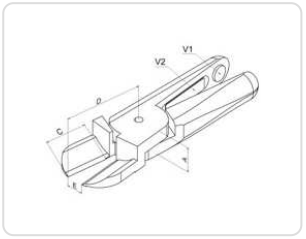


DESIGNATION	ITEM NO.	A	B	C	D	E	O	WEIGHT	X
SZE-20-15-16-MRS	1-75-44-40-00-SZE	12	15°	16	35	11	7 (5)	0.124Kg	ANS-20
SZE-30-15-38-MRS	1-75-44-44-00-SZE	17	15°	38	66	16	10 (6,5)	0.38Kg	ANS-30

72.0 - CUTTING PLIERS INSERTS

SZE-X-0-MRS Straight cutting pliers insert with magnetic return



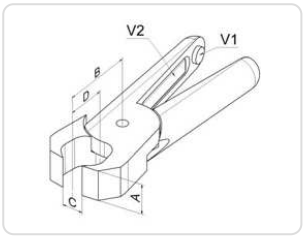


DESIGNATION	ITEM NO.	A	B	C	D	E	O	WEIGHT	X
SZE-20-0-35-18-MRS	1-75-44-10-00-SZE	12	0°	18	35	11	7 (5)	0.116Kg	ANS-20
SZE-30-0-52-28-MRS	1-75-44-14-00-SZE	17	0°	28	52	11	10 (6,5)	0.36Kg	ANS-30

72.0 - CUTTING PLIERS INSERTS

SZE-X-180-MRS Cutting pliers insert, 180° pinch, with magnetic return





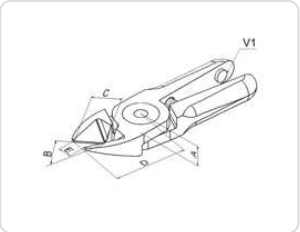
DESIGNATION	ITEM NO.	A	B	C	D	O	WEIGHT	X
SZE-20-180-12-MRS	1-75-44-70-00-SZE	12	28	8	15,5	7 (5)	0.129Kg	ANS-20
SZE-30-180-17-MRS	1-75-44-74-00-SZE	17	45	12	28	10 (6,5)	0.358Kg	ANS-30

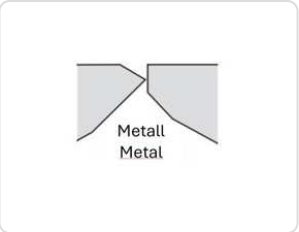
Legend: O = maximum sprue thickness softer (hard) plastic X = suitable for cutting pliers ...

72.0 - CUTTING PLIERS INSERTS

SZE-M Sprue Cutter Blades for metal cutting





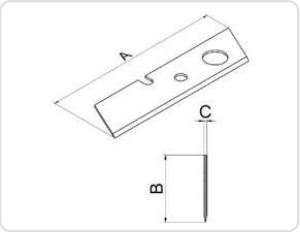


DESIGNATION	ITEM NO.	A	B	C	D	E	F	O	WEIGHT
SZE-M-30-40-18-HSS	1-75-02-90-00-SZE	17	40	18	36	7	ANS-30	2,8 (3,3)	0.36Kg
SZE-M-03-25-12	1-75-16-02-00-SZE	7	25	12	24	4	ANS-03	1(0,5)	0.04Kg
SZE-M-	1-75-16-04-00-SZE	7	25	12	24	4	ANS-03	1(0,5)	0.04Kg
SZE-M-05-25-12	1-75-16-06-00-SZE	7	25	12	24	4	ANS-05	1(0,5)	0.04Kg
SZE-M-05-25-12-HSS	1-75-16-08-00-SZE	7	25	12	24	4	ANS-05	1(0,5)	0.04Kg
SZE-M-07-30-13	1-75-16-10-00-SZE	9	30	13,5	27	4	ANS-07	1,6(1)	0.08Kg
SZE-M-07-30-13-HSS	1-75-16-12-00-SZE	9	30	13,5	27	4	ANS-07	1,6(1)	0.08Kg
SZE-M-10-30-13	1-75-16-14-00-SZE	9	30	13,5	27	5	ANS-10-H	1,8(1,2)	0.08Kg
SZE-M-10-30-13-HSS	1-75-16-16-00-SZE	9	30	13,5	27	5	ANS-10-H	1,8(1,2)	0.08Kg
SZE-M-10-30-13-HSS	1-75-16-18-00-SZE	12	30	20	35	5	ANS-10	1,8(1,2)	0.12Kg
SZE-M-	1-75-16-24-00-SZE	12	30	20	35	9	ANS-20	2,6(2)	0.14Kg
SZE-M-	1-75-16-26-00-SZE	17	30	25	43	9	ANS-30	2,6(2)	0.37Kg
SZE-M-50-35-19-HSS	1-75-16-30-00-SZE	25	35	19	46	9	ANS-50	4,5(5,5)	0.96Kg

72.0 - CUTTING PLIERS INSERTS

ASM-MK Knife - Sprue cutting unit





ADVANTAGES

- V1 - Standard component for cutting film sprues

REMARK

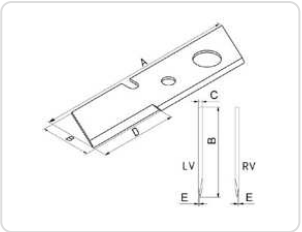
- Other grinding patterns available

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
ASM-16-30-MK-75	1-72-00-10-20-ASM	75	18,8	0,8	0.008Kg
ASM-16-30-MK-110	1-72-00-10-22-ASM	110	18,8	0,8	0.011Kg
ASM-16-30-MK-175	1-72-00-10-24-ASM	175	18,8	0,8	0.018Kg

72.0 - CUTTING PLIERS INSERTS

ASM-MK-SS Knife - Sprue Cutting Unit with Special Grinding





ADVANTAGES

- V1 - knife blade with special grinding for cutting film sprues
- V2 - right and left version available

REMARK

- LV = left-hand variant
- RV = right-hand variant
- (Illustration: left-hand variant LV)

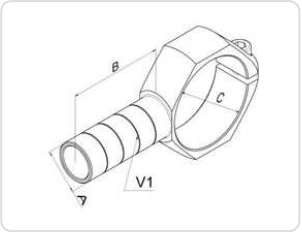
DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT
ASM-MK-SS-75-29-LV	1-72-00-12-00-ASM	75	18,8	0,8	29	0,2	LV	0.008Kg
ASM-MK-SS-75-29-RV	1-72-00-14-00-ASM	75	18,8	0,8	29	0,2	RV	0.008Kg
ASM-MK-SS-110-29-LV	1-72-00-20-00-ASM	110	18,8	0,8	29	0,2	LV	0.011Kg
ASM-MK-SS-110-29-RV	1-72-00-22-00-ASM	110	18,8	0,8	29	0,2	RV	0.011Kg

Legend: F = Special grinding variant ....

74.0 - ACCESSORIES

AAS Adapter for Sprue Cutter ANS







ADVANTAGES

- V1 - Marking aid every 10mm on shaft for easy
- easy adjustment

REMARK

- Various adapter designs for sprue cutters
- available on request

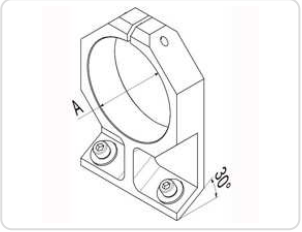
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
AAS-03	1-70-02-50-00-AAS	14	30	23	0.024Kg	ANS-03
AAS-05	1-70-04-50-00-AAS	14	40	30	0.028Kg	ANS-05
AAS-07	1-70-06-50-00-AAS	14	40	34	0.031Kg	ANS-07
AAS-10	1-70-08-50-00-AAS	20	40	36	0.062Kg	ANS-10
AAS-20	1-70-10-50-00-AAS	20	50	45	0.061Kg	ANS-20
AAS-30	1-70-12-50-00-AAS	20	50	56	0.059Kg	ANS-30
AAS-50	1-70-14-50-00-AAS	20	50	75	0.075Kg	ANS-50

Legend: X = suitable for sprue cutter ANS ...

74.0 - ACCESSORIES

ASH Sprue Cutter Holder







ADVANTAGES

- V1 - Simple fixing of the cutting pliers at a fixed angle

REMARK

- Material aluminium

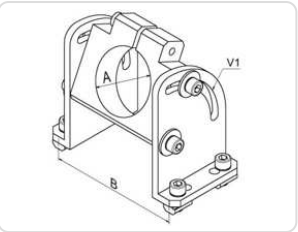
DESIGNATION	ITEM NO.	A	WEIGHT	X
ASH-20	1-71-10-04-00-ASH	45	0.152Kg	ANS-20
ASH-30	1-71-10-06-00-ASH	56	0.178Kg	ANS-30
ASH-50	1-71-10-08-00-ASH	75	0.296Kg	ANS-50

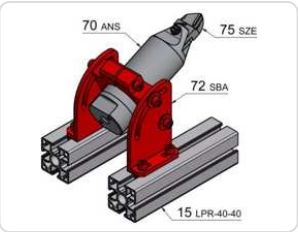
Legend: X = suitable for sprue cutter ANS

74.0 - ACCESSORIES

SBA Swing Clamb Sprue Cutter







REMARK
- Material aluminium

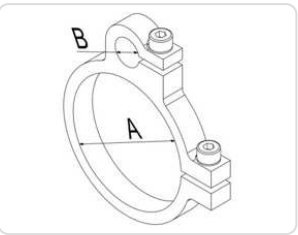
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
SBA-20	1-71-20-04-00-SBA	45	98	0.335Kg	ANS-20
SBA-30	1-71-20-06-00-SBA	56	115	0.407Kg	ANS-30

Legend: X = suitable for ...

74.0 - ACCESSORIES

KSA Clamp for Sprue Cutter ANS







ADVANTAGES
- V1 - flexible attachment for sprue grippers on
- ANS ... with e.g. gripper arm
- GVR

REMARK
- Material aluminium

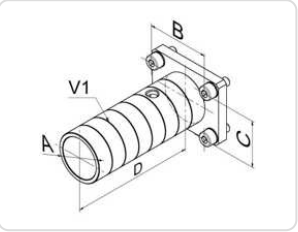
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KSA-36-10	1-71-00-02-00-KSA	36	10	0.02Kg	ANS-10
KSA-45-10	1-71-00-04-00-KSA	45	10	0.023Kg	ANS-20
KSA-56-10	1-71-00-06-00-KSA	56	10	0.026Kg	ANS-30
KSA-75-10	1-71-00-08-00-KSA	75	10	0.031Kg	ANS-50
KSA-56-14	1-71-00-16-00-KSA	56	14	0.03Kg	ANS-30

Legend: X = suitable for sprue cutter ANS

74.0 - ACCESSORIES

AAS-WH Adapter Sprue Cutter for ANS-WH





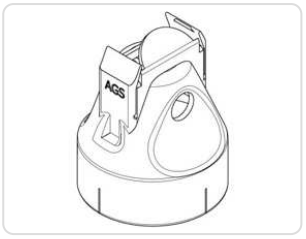
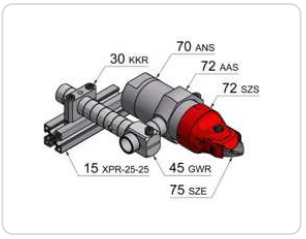
ADVANTAGES
- V1 - Marking grooves every 10mm on shaft for easy adjustment

REMARK
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
AAS-WH-10-20-50	1-70-50-50-00-AAS	20	30	20	50	0.052Kg
AAS-WH-25-30-50	1-70-50-56-00-AAS	30	40	30	80	0.077Kg

74.0 - ACCESSORIES

SZS Dirt Protection for Sprue Cutter

REMARK

- This coating prevents the sprue
- or residues thereof from falling into the cutting pliers body.

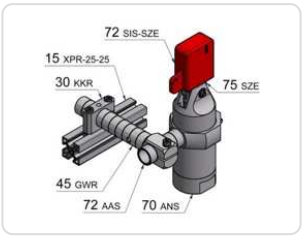
DESIGNATION	ITEM NO.	X
SZS-20	1-71-22-10-00-SZS	ANS-20
SZS-30	1-71-22-12-00-SZS	ANS-30

Legend: X = suitable for ANS-...

74.0 - ACCESSORIES

SIS-SZE Safety Cap for Sprue Cutter Blade





ADVANTAGES

- V1 - To protect the fingers when storing the cutting
- of the cutting station or the gripper with
- cutting pliers

REMARK

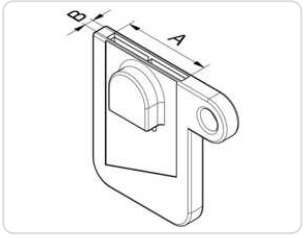
- Various safety caps for other
- cutting pliers available on request
- Scope of delivery:
- Including fastening chain

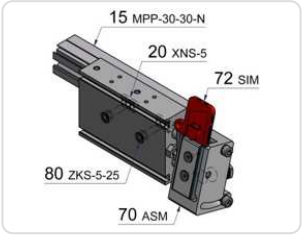
DESIGNATION	ITEM NO.
SIS-SZE-S	1-75-90-20-00-SIS
SIS-SZE-M	1-75-90-26-00-SIS
SIS-SZE-L	1-75-90-32-00-SIS

Legend: X = suitable for cutting insert ...

74.0 - ACCESSORIES

SIM Safety Cover for Knife



ADVANTAGES

- V1 - To protect fingers when storing the cutting unit with blade
- V2 - equipped with a magnet that ensures a secure hold on the blade

REMARK

- Safety cap for knife blade of the
- sprue cutting unit ASM-MK

DESIGNATION	ITEM NO.	A	B
SIM-ASM-16-30-M	1-72-00-90-00-SIM	21	2,2

74.0 - ACCESSORIES

OEB piston stop



DESIGNATION	ITEM NO.	A	B	WEIGHT	X
OEB-20-24	1-70-82-10-00-OEB	32	24	0.006Kg	ANS-20
OEB-30-2	1-70-82-20-00-OEB	30	2		ANS-30
OEB-30-8	1-70-82-24-00-OEB	30	24		ANS-30

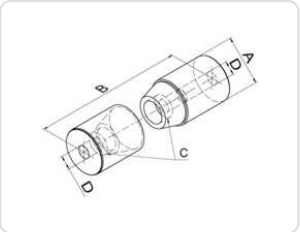
80.0 Special Elements



CENTRING *

ZEH Centering Unit





ADVANTAGES

- V1 - for optimum centring of the gripper in the tool or in the device (e.g. sprue cutting station)
- V2 - can be accommodated in the clamping piece

REMARK

- Material: tool steel
- One half is inserted into the gripper and the other
- half is fixed in the tool

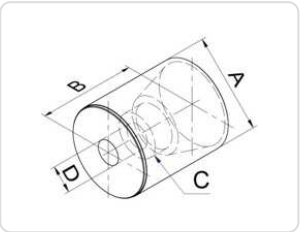
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ZEH-14	1-80-41-60-00-ZEH	14	34	M4	M5	0.033Kg
ZEH-20	1-80-41-62-00-ZEH	20	54	M6	M8	0.114Kg
ZEH-30	1-80-41-64-00-ZEH	30	72	M8	M10	0.344Kg

Legend: C = Countersink for cylinder head screw ....

CENTRING *

ZEH-W Centering Female





REMARK

- Material: Tool steel

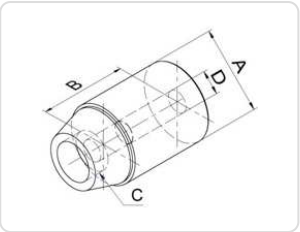
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ZEH-14-W	1-80-41-68-00-ZEH	14	16,5	M4	M5	0.037Kg
ZEH-20-W	1-80-41-72-00-ZEH	20	26	M6	M8	0.12Kg
ZEH-30-W	1-80-41-76-00-ZEH	30	35	M8	M10	0.333Kg

Legend: C = Countersink for cylinder head screw ....

CENTRING *

ZEH-M Centering Male





REMARK

- Material: Tool steel

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ZEH-14-M	1-80-41-70-00-ZEH	14	16,5	M4	M5	0.037Kg
ZEH-20-M	1-80-41-74-00-ZEH	20	26	M6	M8	0.12Kg
ZEH-30-M	1-80-41-78-00-ZEH	30	35	M8	M10	0.333Kg

Legend: C = Countersink for cylinder head screw ....

CENTRING *

HZE-ZEH Holder Centering Unit







ADVANTAGES

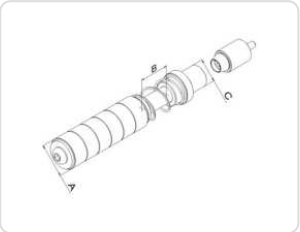
- V1 - For easy attachment (mounting) of the ZEH centring unit

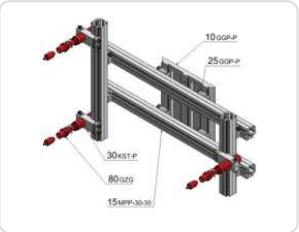
DESIGNATION	ITEM NO.	A	B	C	O	X	WEIGHT
HZE-ZEH-12	1-80-47-09-00-HZE	12	M12×1	M3	VLR-14	ZEH-12	
HZE-ZEH-14	1-80-47-10-00-HZE	14	M12×1	M4	VLR-14	ZEH-14	
HZE-ZEH-16	1-80-47-11-00-HZE	16	M12×1	M4	VLR-14	ZEH-16	0.008Kg
HZE-ZEH-20	1-80-47-12-00-HZE	20	M17×1	M6	VLR-20	ZEH-20	
HZE-ZEH-25	1-80-47-13-00-HZE	25	M17×1	M8	VLR-20	ZEH-25	
HZE-ZEH-30	1-80-47-14-00-HZE	30	M27×1	M8	VLR-30	ZVE-30	

CENTRING *

GZG Spring loaded gripper centering







ADVANTAGES

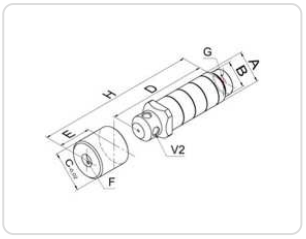
- V1 - The spring-loaded gripper centring ensures gentle centring and positioning in the tool or fixture
- V2 - Height differences are easily compensated
- V3 - precise guidance through the use of ball bushings
- V4 - robust design

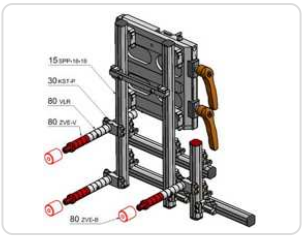
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
GZG-20-20-ZEH-14	1-80-43-80-00-GZG	20	20	ZEH-14	0.004Kg

CENTRING / LOCKING *

ZVE Centring Locking Unit







ADVANTAGES

- V1 - Standard centring
- V2 - 4 point locking mechanism
- V3 - Query option retracted/extended
- V4 - Reproducibility +/- 0.02 mm
- V5 - optimal use as a gripper centring and locking unit

REMARK

- insert via clamping piece in the gripper
- Operating pressure: 6bar use filtered and dried air

DOCUMENTS

- Lage_teachbarer Sensor_ZYS-TE.pdf
- Path

INFO

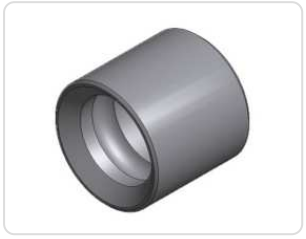
- Guide values for ZVE application:
- ZVE-14:
- Gripper dimensions up to 300×300mm,
- Handling weight max. 5kg (when using 3 ZVEs)
- ZVE-20:
- Gripper dimensions up to 600×600mm,
- Handling weight max. 20kg (when using 3 ZVEs)
- ZVE-30:
- Gripper dimensions from 600×600mm,
- Handling weight 60kg (when using 3 ZVEs)
- We recommend at least three ZVE per gripper

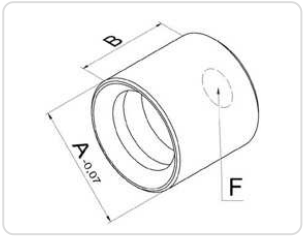
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	O	WEIGHT
ZVE-14	1-80-41-88-00-ZVE	14	M12×1	20	63	23,5	M5	M5	71,2	20kg	0.078Kg
ZVE-20	1-80-41-90-00-ZVE	20	M17×1	25	73	23,5	M8	M5	81,5	100kg	0.172Kg
ZVE-30	1-80-41-92-00-ZVE	30	M27×1	30	103	34,8	M8	G1/8	115	300kg	0.337Kg

Legend: F = prepared for countersunk head screw G = Air connection O = max. tensile force H = Total length in locked state

CENTRING / LOCKING *

ZVE-B Centring Locking Unit Bushing





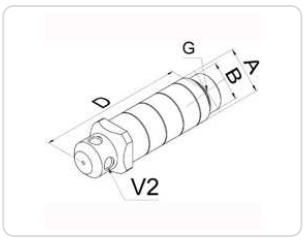
DESIGNATION	ITEM NO.	A	B	F	WEIGHT
ZVE-14-B	1-80-41-94-00-ZVE	20	23,5	M5	0.042Kg
ZVE-20-B	1-80-41-96-00-ZVE	25	23,5	M8	0.049Kg
ZVE-30-B	1-80-41-98-00-ZVE	30	34,8	M8	0.1Kg

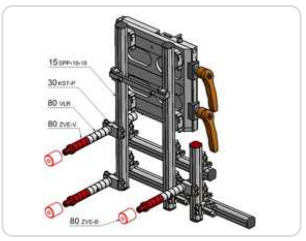
Legend: F = prepared for countersunk head screw

CENTRING / LOCKING *

ZVE-V Centring Locking







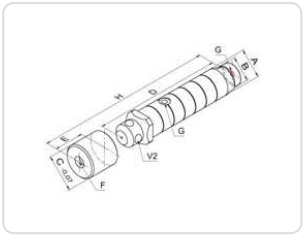
DESIGNATION	ITEM NO.	A	B	C	D	G	WEIGHT	X	O
ZVE-14-V	1-80-41-89-00-ZVE	14	M12×1	25	63	M5	0.036Kg	ZVE-14-B	
ZVE-20-V	1-80-41-91-00-ZVE	20	M17×1	25	73	M5	0.123Kg	ZVE-20-B	100kg
ZVE-30-V	1-80-41-93-00-ZVE	30	M27×1	30	103	G1/8	0.237Kg	ZVE-30-B	300kg

Legend: G = Air connection O = max. tensile force X = matching bushing

CENTRING / LOCKING *

ZVE-DW Centring Locking double acting







ADVANTAGES

- V1 - double-acting
- V2 - extended with locking function
- V3 - self-retaining with compressed air drop
- V4 - 4-point locking mechanism
- V5 - Query option retracted/extended
- V6 - Reproducibility +/- 0.02 mm
- V7 - Standard centring

DOCUMENTS

- ZVE-DW_Lage_teachbarer_Sensor_ZYS-TE.pdf
- Path

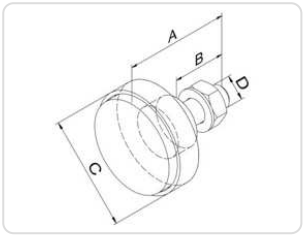
DESIGNATION	ITEM NO.	A	B	C	D	F	G	H	O
ZVE-20-DW	1-80-48-10-00-ZVE	20	M17×1	25	103	M8	M5	111	100kg

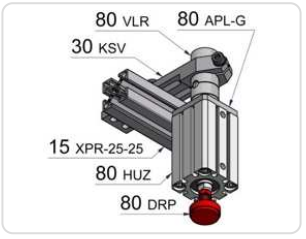
Legend: F = prepared for countersunk head screw G = Air connection O = max. tensile force

PRESSURE PLATES *

DRP Pressure Plate







ADVANTAGES

- V1 - For clamping the part with a HUZ short-stroke cylinder

REMARK

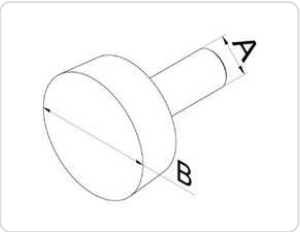
- Material aluminium with PU insert
- Degree of hardness PU insert: 55° Shore A

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
DRP-22-3	1-80-44-10-00-DRP	16	7	22	M3	0.008Kg
DRP-22-4	1-80-44-12-00-DRP	24	13	22	M4	0.011Kg
DRP-22-5	1-80-44-14-00-DRP	24	13	22	M5	0.012Kg
DRP-22-6	1-80-44-16-00-DRP	24	13	22	M6	0.014Kg

PRESSURE PLATES *

GUP Rubber buffer





ADVANTAGES
- V1 - Use as a soft pressure plate

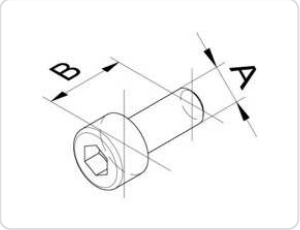
REMARK
- Metal thread, rubber plate

DESIGNATION	ITEM NO.	A	B	WEIGHT
GUP-18-6	1-80-44-30-00-GUP	M6	18	0.007Kg

SCREWS / NUTS *

ZKS-4 Cylinder Head Screw M4





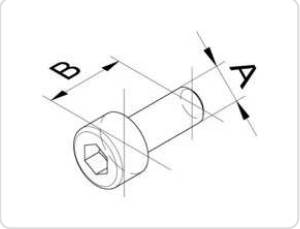
REMARK
- DIN 912 - 8.8 - galvanised
- Shipping unit:
- PU = 20 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
ZKS-M4-06	1-80-00-10-00-ZKS	M4	6	0.002Kg
ZKS-M4-08	1-80-00-10-01-ZKS	M4	8	0.002Kg
ZKS-M4-10	1-80-00-10-02-ZKS	M4	10	0.002Kg
ZKS-M4-12	1-80-00-10-03-ZKS	M4	12	0.002Kg
ZKS-M4-14	1-80-00-10-04-ZKS	M4	14	0.002Kg
ZKS-M4-16	1-80-00-10-05-ZKS	M4	16	0.002Kg
ZKS-M4-18	1-80-00-10-06-ZKS	M4	18	0.002Kg
ZKS-M4-20	1-80-00-10-07-ZKS	M4	20	0.002Kg
ZKS-M4-25	1-80-00-10-08-ZKS	M4	25	0.004Kg
ZKS-M4-30	1-80-00-10-09-ZKS	M4	30	0.004Kg
ZKS-M4-35	1-80-00-10-10-ZKS	M4	35	0.004Kg
ZKS-M4-40	1-80-00-10-11-ZKS	M4	40	0.005Kg
ZKS-M4-50	1-80-00-10-13-ZKS	M4	50	0.005Kg
ZKS-M4-22	1-80-00-10-30-ZKS	M4	22	0.003Kg

SCREWS / NUTS *

ZKS-5 Cylinder Head Screw M5





REMARK
- DIN 912 - 8.8 - galvanised
- Shipping unit:
- PU = 20 pieces
- Price: 1 PU

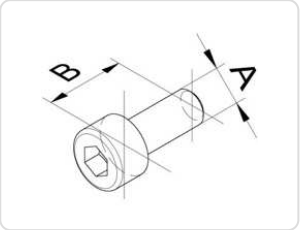
DESIGNATION	ITEM NO.	A	B	WEIGHT
ZKS-M5-06	1-80-00-11-00-ZKS	M5	6	0.003Kg

DESIGNATION	ITEM NO.	A	B	WEIGHT
ZKS-M5-08	1-80-00-11-01-ZKS	M5	8	0.003Kg
ZKS-M5-10	1-80-00-11-02-ZKS	M5	10	0.003Kg
ZKS-M5-12	1-80-00-11-03-ZKS	M5	12	0.003Kg
ZKS-M5-14	1-80-00-11-04-ZKS	M5	14	0.003Kg
ZKS-M5-16	1-80-00-11-05-ZKS	M5	16	0.003Kg
ZKS-M5-18	1-80-00-11-06-ZKS	M5	18	0.004Kg
ZKS-M5-20	1-80-00-11-07-ZKS	M5	20	0.004Kg
ZKS-M5-22	1-80-00-11-08-ZKS	M5	22	0.004Kg
ZKS-M5-25	1-80-00-11-09-ZKS	M5	25	0.004Kg
ZKS-M5-30	1-80-00-11-10-ZKS	M5	30	0.005Kg
ZKS-M5-35	1-80-00-11-11-ZKS	M5	35	0.005Kg
ZKS-M5-40	1-80-00-11-12-ZKS	M5	40	0.007Kg
ZKS-M5-45	1-80-00-11-13-ZKS	M5	45	0.008Kg
ZKS-M5-50	1-80-00-11-14-ZKS	M5	50	0.008Kg
ZKS-M5-55	1-80-00-11-15-ZKS	M5	55	0.009Kg
ZKS-M5-60	1-80-00-11-16-ZKS	M5	60	0.01Kg
ZKS-M5-60	1-80-00-11-17-ZKS	M5	65	0.01Kg
ZKS-M5-70	1-80-00-11-18-ZKS	M5	70	0.012Kg
ZKS-M5-80	1-80-00-11-20-ZKS	M5	80	0.013Kg
ZKS-M5-90	1-80-00-11-22-ZKS	M5	90	0.014Kg
ZKS-M5-100	1-80-00-11-24-ZKS	M5	100	0.016Kg
ZKS-M5-110	1-80-00-11-26-ZKS	M5	110	0.018Kg
ZKS-M5-120	1-80-00-11-28-ZKS	M5	120	0.02Kg

SCREWS / NUTS *

ZKS-6 Cylinder Head Screw M6





REMARK

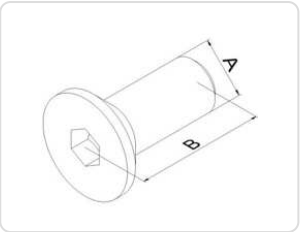
- DIN 912 - 8.8 - galvanised
- Shipping unit:
- PU = 20 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
ZKS-M6-08	1-80-00-12-00-ZKS	M6	8	0.005Kg
ZKS-M6-10	1-80-00-12-01-ZKS	M6	10	0.005Kg
ZKS-M6-12	1-80-00-12-02-ZKS	M6	12	0.005Kg
ZKS-M6-14	1-80-00-12-03-ZKS	M6	14	0.006Kg
ZKS-M6-16	1-80-00-12-04-ZKS	M6	16	0.006Kg
ZKS-M6-18	1-80-00-12-05-ZKS	M6	18	0.006Kg
ZKS-M6-20	1-80-00-12-06-ZKS	M6	20	0.007Kg
ZKS-M6-22	1-80-00-12-07-ZKS	M6	22	0.007Kg
ZKS-M6-25	1-80-00-12-08-ZKS	M6	25	0.008Kg
ZKS-M6-30	1-80-00-12-09-ZKS	M6	30	0.009Kg
ZKS-M6-35	1-80-00-12-10-ZKS	M6	35	0.01Kg
ZKS-M6-40	1-80-00-12-11-ZKS	M6	40	0.011Kg
ZKS-M6-45	1-80-00-12-12-ZKS	M6	45	0.012Kg
ZKS-M6-50	1-80-00-12-14-ZKS	M6	50	0.013Kg

SCREWS / NUTS *

SKS Countersunk head screw





REMARK

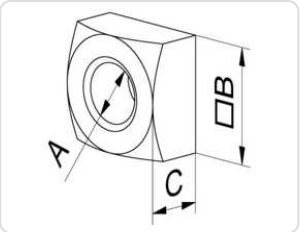
- ISO 10642 (replaces DIN 7991)
- galvanised,10.9
- Shipping unit:
- PU = 20 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	SW
SKS-M4-10	1-80-00-20-10-SKS	M4	10	1
SKS-M5-10	1-80-00-20-20-SKS	M5	10	1

SCREWS / NUTS *

VKM Square Nut





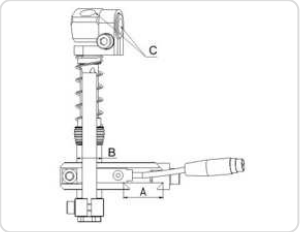
REMARK

- DIN 557 - 8.8 - galvanised
- Shipping unit:
- PU = 20 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	SW
VKM-M4-7-7-3.2	1-80-00-10-95-VKM	M4	7	3,2	0.002Kg	
VKM-M5-8-8-4	1-80-00-11-95-VKM	M5	8	4	0.002Kg	
VKM-M5-9-9-4	1-80-00-11-96-VKM	M5	9	4	0.002Kg	1
VKM-M6-10-10-5	1-80-00-12-95-VKM	M6	10	5	0.003Kg	

STF-P Stack Sensor with Prism







ADVANTAGES

- V1 - Simple scanning (reaching the stacking position)
- V2 - Simple attachment to a PreciGrip profile

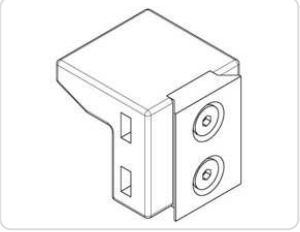
OPTION

- Smaller version also available on request

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
STF-14-18-18-P22 Stack Sensor	1-81-00-20-00-STF	P22	14	18	0.149Kg

ZES-P Centring Piece with Prism





ADVANTAGES

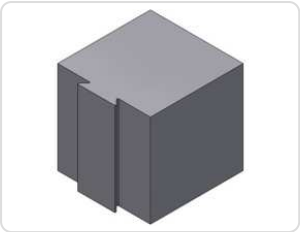
- V1 - for simple centring of components

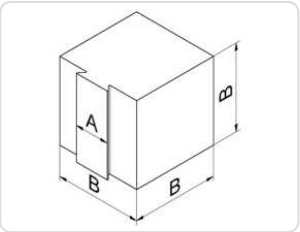
REMARK

- Material:
- Body made of PA and
- Aluminium prism

DESIGNATION	ITEM NO.
ZES-P13-20-20-20	1-80-53-10-00-ZES
ZES-P22-30-30-30	1-80-53-14-00-ZES

ZRP-P Centering Blank with Prism





ADVANTAGES

- V1 – There are two different materials to choose from:
- Aluminium (Al) and polyoxymethylene (POM)
- V2
- –
- Simple production of centring pieces and mould jaws

REMARK

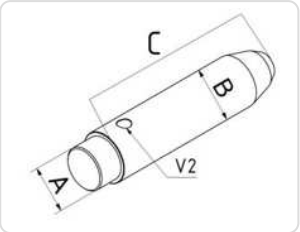
- Material: POM with aluminium prism
- and alternatively Al

DESIGNATION	ITEM NO.	A	B	X	WEIGHT
ZRP-30-30-30-P13-A	1-80-43-10-00-ZRP	P13	30	Al	
ZRP-30-30-30-P13-P	1-80-43-12-00-ZRP	P13	30	POM	
ZRP-50-50-50-P22-A	1-80-43-14-00-ZRP	P22	50	Al	0.004Kg
ZRP-50-50-50-P22-P	1-80-43-16-00-ZRP	P22	50	POM	

Legend: X = Material POM or aluminium

ZEB Centering Pin







ADVANTAGES

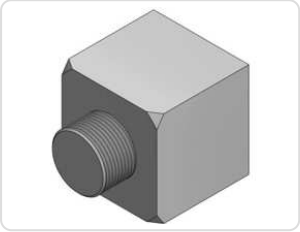
- V1 - for centring components to be handled
- V2 - cross hole for easy assembly

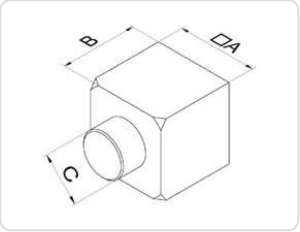
REMARK

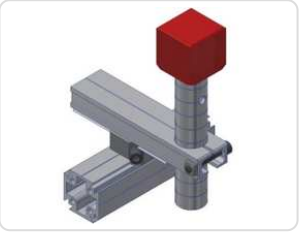
- Material POM

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
ZEB-10-40	1-80-41-40-00-ZEB	M8×1	10	40	0.004Kg
ZEB-14-60	1-80-41-42-00-ZEB	M12×1	14	60	0.012Kg
ZEB-20-80	1-80-41-44-00-ZEB	M17×1	20	80	0.035Kg
ZEB-30-100	1-80-41-46-00-ZEB	M27×1	30	100	0.09Kg

ZER Centering Baseplate







ADVANTAGES

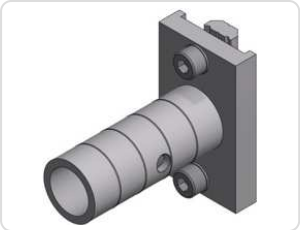
- V1 - Simple production of centring blanks

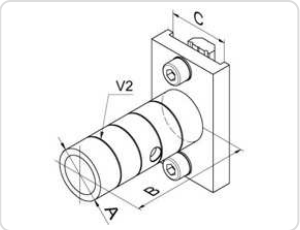
REMARK

- Material: Polyamide

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
ZER-10-20-20	1-80-41-80-00-ZER	20	20	M8×1	0.01Kg
ZER-14-25-25	1-80-41-81-00-ZER	25	25	M12×1	0.023Kg
ZER-20-30-30	1-80-41-82-00-ZER	30	30	M17×1	0.041Kg
ZER-30-40-40	1-80-41-83-00-ZER	40	40	M27×1	0.098Kg

PKS Profile clamp







ADVANTAGES

- V1 - Stable connection to position the profile at different angles
- V2 - Marking aid every 10 mm on the shaft for easy adjustment

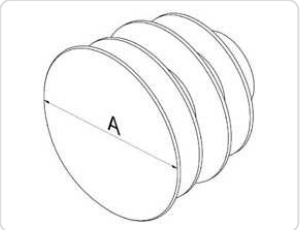
REMARK

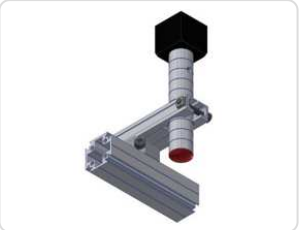
- Material Aluminium
- For attaching the HEH-R and HEH-P lifting unit

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PKS-25-14-80	1-80-42-28-00-PKS	14	80	25	0.063Kg
PKS-25-20-50	1-80-42-30-00-PKS	20	50	25	0.067Kg
PKS-25-20-100	1-80-42-31-00-PKS	20	100	25	0.089Kg
PKS-25-30-80	1-80-42-32-00-PKS	30	80	25	0.16Kg

RVS Tube Plug







ADVANTAGES

- V1 - Protection against contamination, e.g. in grab arm tubes

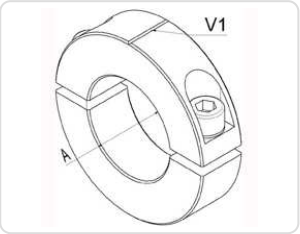
REMARK

- Material: PE black
- Shipping unit:
- PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	WEIGHT
RVS-10	1-80-43-02-00-RVS	10	0.001Kg
RVS-14	1-80-43-04-00-RVS	14	0.001Kg
RVS-20	1-80-43-06-00-RVS	20	0.001Kg
RVS-30	1-80-43-08-00-RVS	30	0.002Kg

STR Adjusting and Stop Ring



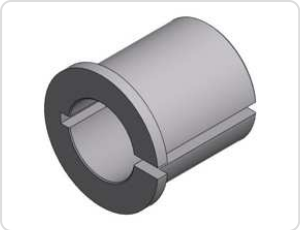


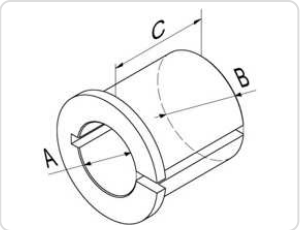
ADVANTAGES

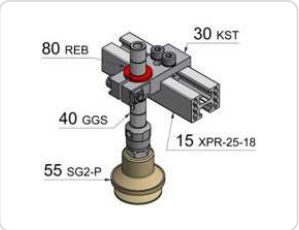
- V1 - Marking groove
- V2 - after a crash drive it is possible,
- using the previously fitted adjusting ring,
- to precisely reposition the active elements
- V3 - Stop two positions

DESIGNATION	ITEM NO.	A	WEIGHT
STR-20	1-80-45-50-00-STR	20	0.045Kg
STR-30	1-80-45-52-00-STR	30	0.071Kg

REB Bushing







ADVANTAGES

- V1 - For simple reduction of
- clamping holes

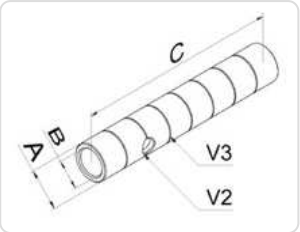
REMARK

- Material Aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
REB-14-10	1-80-45-10-00-REB	10	14	14	0.004Kg
REB-20-14	1-80-45-12-00-REB	14	20	20	0.01Kg
REB-30-20	1-80-45-14-00-REB	20	30	30	0.036Kg

VLR Extension Tube







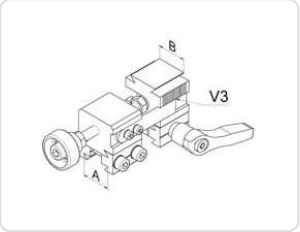
ADVANTAGES

- V1 - for the extension of components
- V2 - cross hole for easy installation
- V3 - Marking aid every10mm on shaft for easy
- easy adjustment (except for 1000mm length)

DESIGNATION	ITEM NO.	A	B	C	O	WEIGHT	X
VLR-10-30-A	1-80-41-00-00-VLR	10	M8×1	30	1	0.003Kg	ZEB-10
VLR-10-60-A	1-80-41-02-00-VLR	10	M8×1	60	1	0.007Kg	ZEB-10
VLR-10-90-A	1-80-41-04-00-VLR	10	M8×1	90	1	0.011Kg	ZEB-10
VLR-14-40-A	1-80-41-06-00-VLR	14	M12×1	40	1	0.007Kg	ZEB-14
VLR-14-80-A	1-80-41-08-00-VLR	14	M12×1	80	1	0.015Kg	ZEB-14
VLR-14-120-A	1-80-41-10-00-VLR	14	M12×1	120	1	0.022Kg	ZEB-14
VLR-20-50-A	1-80-41-12-00-VLR	20	M17×1	50	1	0.014Kg	GFI-20/ZEB-20
VLR-20-100-A	1-80-41-14-00-VLR	20	M17×1	100	1	0.029Kg	GFI-20/ZEB-20
VLR-20-250-A	1-80-41-16-00-003	20	M17×1	250	1	0.1Kg	GFI-20/ZEB-20
VLR-20-150-A	1-80-41-16-00-VLR	20	M17×1	150	1	0.044Kg	GFI-20/ZEB-20
VLR-20-1000-A	1-80-41-17-00-VLR	20	-	1000	1	0.28Kg	GFI-20/ZEB-20
VLR-30-80-A	1-80-41-30-00-VLR	30	M27×1	80	1	0.042Kg	GFI-30/ZEB-30
VLR-30-140-A	1-80-41-32-00-VLR	30	M27×1	140	1	0.076Kg	GFI-30/ZEB-30
VLR-30-200-A	1-80-41-34-00-VLR	30	M27×1	200	1	0.11Kg	GFI-30/ZEB-30

Fine adjustment





ADVANTAGES

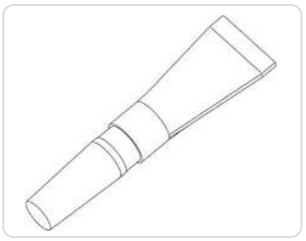
- V1 – Easy adjustment without tools.
- V2 – Precise adjustment of active elements on the PreciGrip profile

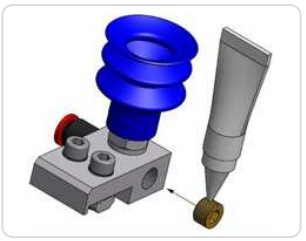
DESIGNATION	ITEM NO.	A	B	C
FES-P22-P22-20	1-80-57-10-00-FES	P22	P22	20

Legend: C = Adjustment range

SSM Medium Strength Threadlocker







REMARK

- Clean internal and external threads with brake cleaner before bonding

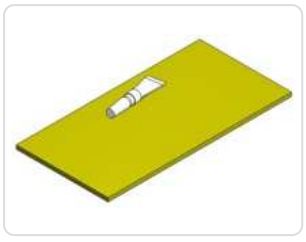
INFO

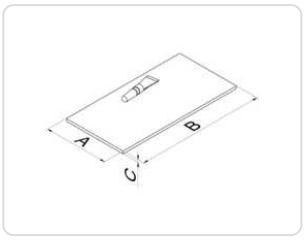
- Area of application:
- - if the position of the air connection must be changed
- - for medium-strength threadlocker
- - suitable for threaded connections made of metal

DESIGNATION	ITEM NO.	A
srew securing middle-hard	1-80-44-20-00-SSM	5ml

Legend: A = Filling quantity

GUK Rubber and Glue Set





ADVANTAGES

- V1 - Protects the part to be gripped
- V2 - easy to handle
- V3 - 1 component adhesive transparent

REMARK

- For gluing gripper fingers or gripper jaws
- Store adhesive in a cool place !
- PU material hardness: 55° Shore A

INFO

- Adhesive:
- - Bonds the PU rubber to steel and aluminium
- -Temperature resistant from -50°C to +135°C
- - High shear and impact resistance

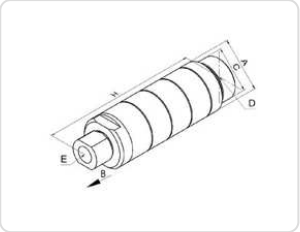
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
GUK-250-125-3	1-80-44-00-00-GUK	250	125	3	
GUK-250-125-4	1-80-44-02-00-GUK	250	125	4	0.178Kg
GUK-250-125-5	1-80-44-04-00-GUK	250	125	5	

85.0 Pneumatic Stroke Unit



KHZ Short-Stroke Cylinder





ADVANTAGES

- V1 - Query option retracted/extended
- V2 - simple attachment using various clamping pieces
- V3 - slimline design
- V4 - cost-effective solution
- V5 - low weight

REMARK

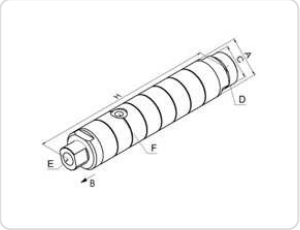
- single-acting
- Operating pressure: 6 bar use filtered and dried air
- Piston rod is not secured against twisting

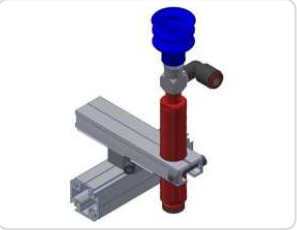
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H
KHZ-14-10	1-80-28-10-00-KHZ	14	5	M12×1	M5	M3	10	47N	59,5
KHZ-14-10	1-80-28-14-00-KHZ	14	10	M12×1	M5	M3	10	47N	59,5
KHZ-20-10	1-80-28-20-00-KHZ	20	10	M17×1	M5	M8	16	121N	68,5
KHZ-20-20	1-80-28-24-00-KHZ	20	20	M17×1	M5	M8	16	121N	82,5
KHZ-30-10	1-80-28-30-00-KHZ	30	10	M27×1	G1/8"	M8	25	295N	92,5
KHZ-30-20	1-80-28-34-00-KHZ	30	20	M27×1	G1/8"	M8	25	295N	104,5
KHZ-30-30	1-80-28-38-00-KHZ	30	30	M27×1	G1/8"	M8	25	295N	114,5

Legend: B = stroke D = Air connection F = piston diameter G = Cylinder force extending (at 6 bar) Cylinder force 10N = 1kg

KHZ-DW Short-Stroke Cylinder Double-acting







ADVANTAGES

- V1 - Query option retracted/extended
- V2 - simple mounting by means of clamping piece
- V3 - slimline design
- V4 - Stroke for suction pads SG.....
- V5 - low weight

REMARK

- Double-acting
- Operating pressure: 6 bar use filtered and dried air
- Piston rod is not secured against rotation

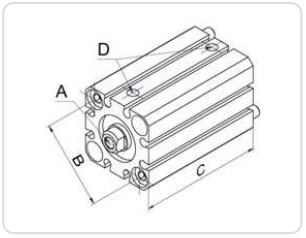
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H
KHZ-14-5-DW	1-80-30-10-00-KHZ	14	5	M12×1	M5	M3	M5	47N	86
KHZ-14-10-DW	1-80-30-14-00-KHZ	14	10	M12×1	M5	M3	M5	47N	86
KHZ-20-10-DW	1-80-30-20-00-KHZ	20	10	M17×1	M5	M8	M5	121N	108

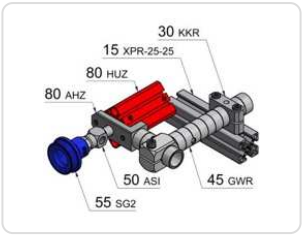
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H
KHZ-20-20-DW	1-80-30-24-00-KHZ	20	20	M17×1	M5	M8	M5	121N	108
KHZ-30-10-DW	1-80-30-30-00-KHZ	30	10	M27×1	M5	M8	M5	280N	138,5
KHZ-30-20-DW	1-80-30-34-00-KHZ	30	20	M27×1	M5	M8	M5	280N	138,5
KHZ-30-30-DW	1-80-30-38-00-KHZ	30	30	M27×1	M5	M8	M5	280N	138,5

Legend: B = Stroke D = Air connection on the shaft F = Air connection on the body G = Cylinder force extending (at 6 bar) Cylinder force 10N = 1Kg H = Total length of piston rod retracted

HUZ Cylinder







ADVANTAGES

- V1 - Cylinder position (magnetic piston) can be queried with cylinder sensor ZYS-3.7-2000
- V2 - Stroke for suction pad SG
- V3 - Protected query

REMARK

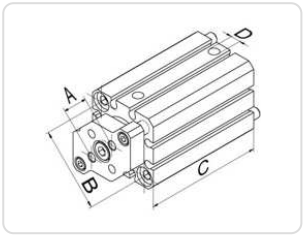
- - Various other sizes and stroke lengths available on request
- - Operating principle: Double-acting
- - Operating pressure: use 6 bar filtered and dried air
- Scope of delivery:
- incl. fastening material

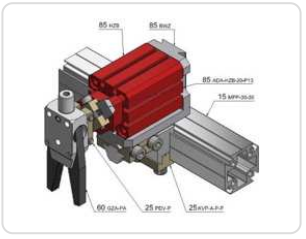
DESIGNATION	ITEM NO.	A	B	C	D	M	N	O	WEIGHT	X
HUZ-12-10	1-80-20-00-00-HUZ	M3	22 (AHZ-12-10-30)	32	M5	10	12	50N	0.048Kg	68N
HUZ-20-20	1-80-20-10-00-HUZ	M5	36 (AHZ-20-20-50)	50	M5	20	20	142N	0.15Kg	188N
HUZ-20-30	1-80-20-11-00-HUZ	M5	36(AHZ-20-20-50)	59,5	M5	30	20	142N	0.156Kg	188N
HUZ-20-40	1-80-20-12-00-HUZ	M5	36(AHZ-20-20-50)	69,5	M5	40	20	142N	0.165Kg	188N
HUZU-20-50	1-80-20-13-00-HUZ	M5	36(AHZ-20-20-50)	79,5	M5	50	20	142N	0.21Kg	188N
HUZ-32-10	1-80-20-19-00-HUZ	M8	48 (AHZ-32-20-50)	43	G1/8	10	32	362N	0.207Kg	482N
HUZ-32-20	1-80-20-20-00-HUZ	M8	48 (AHZ-32-20-50)	53	G1/8	20	32	362N	0.265Kg	482N
HUZ-32-30	1-80-20-21-00-HUZ	M8	48 (AHZ-32-20-50)	63	G1/8	30	32	362N	0.295Kg	482N
HUZ-32-40	1-80-20-22-00-HUZ	M8	48 (AHZ-32-20-50)	73	G1/8	40	32	362N	0.35Kg	482N
HUZ-32-50	1-80-20-24-00-HUZ	M8	48 (AHZ-32-20-50)	83	G1/8	50	32	362N	0.387Kg	482N

Legend: B = for holder AHZ or adapter APL M = stroke N = piston diameter O = Cylinder force retracting X = Cylinder force extending

HZB Cylinder with Beam







ADVANTAGES

- V1 - universally applicable
- V2 - solid sliding guide
- V3 - Cylinder position can be queried with favourable cylinder sensor ZYS-3.7-2000
- V4 - Protected query

REMARK

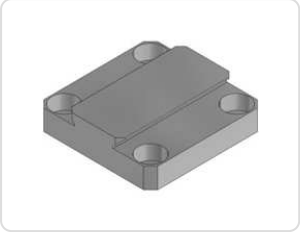
- - Other sizes and stroke lengths available on request
- - Operating principle: double-acting
- - Operating pressure: use 6 bar filtered and dried air
- Scope of delivery:
- incl. fastening material

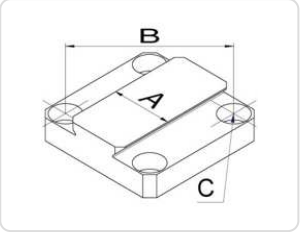
DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	O	WEIGHT	X
HZB-12-10	1-80-22-00-00-HZB	10(KBH-12-10-60/PRH-12-18-100)	22 (AHZ-12-10-30)	32	M5	M3	10	12	50N	0.062Kg	68N
HZB-20-10	1-80-22-08-00-HZB	17(KBH-20-14-90/PRH-20-25-140)	36 (AHZ-20-20-50)	40	M5	M4	10	20	142N	0.156Kg	188N

DESIGNATION	ITEM NO.	A	B	C	D	E	M	N	O	WEIGHT	X
HZB-20-20	1-80-22-10-00-HZB	17(KBH-20-14-90/PRH-20-25-140)	36 (AHZ-20-20-50)	50	M5	M4	20	20	142N	0.189Kg	188N
HZB-32-10	1-80-22-18-00-HZB	28(KBH-32-20-125/PRH-32-25-180)	48 (AHZ-32-20-50)	43	G1/8	M5	10	32	362N	0.281Kg	482N
HZB-32-20	1-80-22-20-00-HZB	28(KBH-32-20-125/PRH-32-25-180)	48 (AHZ-32-20-50)	53	G1/8	M5	20	32	362N	0.323Kg	482N
HZB-20-30	1-80-22-30-00-HZB	17(KBH-20-14-90/PRH-20-25-140)	36 (AHZ-20-20-50)	60	M5	M4	30	20	142N	0.202Kg	188N
HZB-20-40	1-80-22-32-00-HZB	17(KBH-20-14-90/PRH-20-25-140)	36 (AHZ-20-20-50)	70	M5	M4	40	20	142N		188N

Legend: A = for KBH clamping bridge or PRH profile B = for holder AHZ or adapter APL M = Stroke N = piston diameter O = Cylinder force retracting X = Cylinder force extending

APZ-P Adapter plate cylinder prism







ADVANTAGES

- V1 - HUZ lifting cylinder can be integrated into our
- PreciGrip

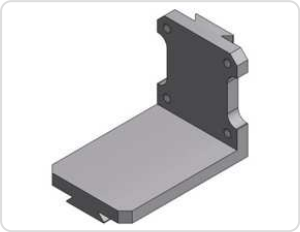
REMARK

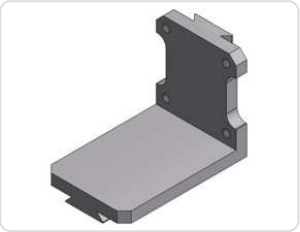
- Material: Aluminium

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
APZ-20-P22	1-80-20-90-00-APZ	P22	36	M5	0.058Kg	HUZ-20
APZ-32-P22	1-80-20-92-00-APZ	P22	48	M5	0.078Kg	HUZ-32
APZ-20-D6-P22	1-80-20-94-00-APZ	P22	36	D6	0.058Kg	HUZ-20
APZ-32-D6-P22	1-80-20-96-00-APZ	P22	48	D6	0.078Kg	HUZ-32

Legend: C = M5 (thread) and D6 (through hole) X = suitable for

BWZ-P Mounting Angle Cylinder Prism







ADVANTAGES

- V1 - HUZ lifting cylinder can thus be integrated into our PreciGrip system
- V2 - simple design for a suction pad on stroke

REMARK

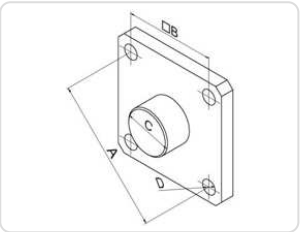
- Material: Aluminium

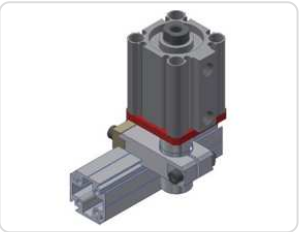
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
BWZ-32-P22-P22	1-80-20-84-00-BWZ	P22	P22	0.105Kg	HUZ-32

Legend: X = suitable for lifting cylinder HUZ-..

APL-G Adapterplate with thread







ADVANTAGES

- V1 - Mounting option for gripper GZA-32, lifting cylinder HUZ and lifting cylinder with bridge HZB

REMARK

- Material aluminium
- Some variants have through holes, others have threads (see table D)
- Other lengths and diameters on request

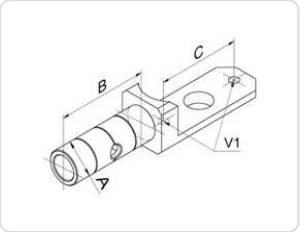
DESIGNATION	ITEM NO.	A	B	C	D	O	WEIGHT	X
APL-12-M3-14	1-80-42-06-02-APL	22	15,6	M12×1	M3	-	0.009Kg	HUZ-12/HZB-12
APL-20-M5-20	1-80-42-08-02-APL	36	25,5	M17×1	M5	-	0.021Kg	HUZ-20/HZB-20
APL-32-M5-20	1-80-42-10-02-APL	48	34	M17×1	M5	GZA-32	0.032Kg	HUZ-32/HZB-32

DESIGNATION	ITEM NO.	A	B	C	D	O	WEIGHT	X
APL-32-5,5-20	1-80-42-12-02-APL	48	34	M17×1	Ø5,5	GZA-32	0.032Kg	HUZ-32/HZB-32
APL-32-M5-30	1-80-42-14-02-APL	48	34	M27×1	M5	GZA-32	0.041Kg	HUZ-32/HZB-32
APL-32-5.5-30	1-80-42-16-02-APL	48	34	M27×1	Ø5,5	GZA-32	0.041Kg	HUZ-32/HZB-32

Legend: O = suitable for gripper GZA-... X = suitable for HUZ lifting cylinder and HZB lifting cylinder with bridge

AHZ Adapter for Cylinder HUZ/HZB







ADVANTAGES

- V1 - The lifting cylinder can be mounted on the
- the rear as well as on the piston rod side
- the piston rod side

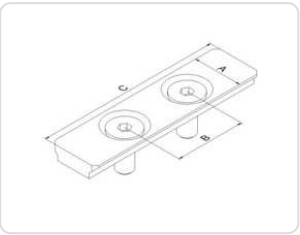
REMARK

- for attaching the lifting cylinder with and without bridge

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
AHZ-12-10-30	1-80-40-00-00-AHZ	10	30	22	0.007Kg
AHZ-20-14-40	1-80-40-10-00-AHZ	14	40	36	0.018Kg
AHZ-20-20-50	1-80-40-12-00-AHZ	20	50	36	0.036Kg
AHZ-32-20-50	1-80-40-20-00-AHZ	20	50	48	0.053Kg
AHZ-32-20-100	1-80-40-22-00-AHZ	20	100	48	0.069Kg
AHZ-32-20-150	1-80-40-24-00-AHZ	20	150	48	0.085Kg
AHZ-32-30-80	1-80-40-30-00-AHZ	30	80	48	0.116Kg

ADA-HZB-P Adapter plate for Cylinder with Beam HZB with Prism







ADVANTAGES

- V1 - this allows the lifting cylinder with bridge HZB
- easily integrated into the PreciGrip system
- system

REMARK

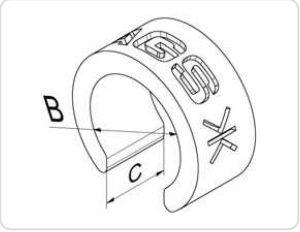
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
ADA-HZB-20-P13	1-85-50-10-00-ADA	P13	17	45	0.006Kg	HZB-20
ADA-HZB-32-P22	1-85-50-16-00-ADA	P22	28	58	0.021Kg	HZB-32

Legend: X = suitable for ...

HBE-E Stroke reducer easy





ADVANTAGES

- V1 - this can be used to reduce the stroke of the HUZ lifting cylinder

REMARK

- Material: POM

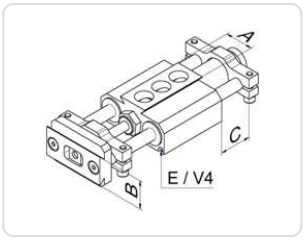
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
HBE-E-20-10-10	1-80-46-24-00-HBE	HUZ-20	10	10	0.003Kg

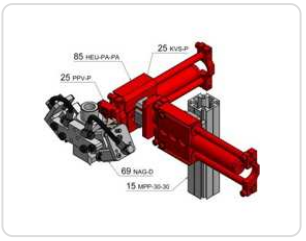
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
HBE-E-32-16-5	1-80-46-26-00-HBE	HUZ-32	16	5	0.001Kg
HBE-E-32-16	1-80-46-28-00-HBE	HUZ-32	16	7,5	0.002Kg
HBE-E-32-16	1-80-46-30-00-HBE	HUZ-32	16	10	0.003Kg

Legend: A = suitable for cylinder HUZ-...

HEU-PA-PA Stroke Unit Universal Prism Outside







ADVANTAGES

- V1 - Modular lifting units
- V2 - various mounting options
- V3 - adjustable stroke 0 - X mm
- V4 - Protected query

REMARK

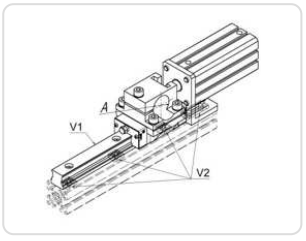
- Operating principle: Double-acting
- Ambient temperature: 0-80°C
- Operating pressure: 6 bar filtered and dried
- air

DESIGNATION	ITEM NO.	A	B	C	D	F	G	WEIGHT
HEU-PA-22-16-25-PA-22	1-85-00-10-00-HEU	P22	P22	25	16	120N	103N	0.266Kg
HEU-PA-22-16-50-PA-22	1-85-00-12-00-HEU	P22	P22	50	16	120N	103N	0.288Kg
HEU-PA-22-16-80-PA-22	1-85-00-14-00-HEU	P22	P22	80	16	120N	103N	0.314Kg
HEU-PA-22-16-100-PA-22	1-85-00-16-00-HEU	P22	P22	100	16	120N	103N	0.331Kg
HEU-PA-22-16-160-PA-22	1-85-00-18-00-HEU	P22	P22	160	16	120N	103N	0.359Kg
HEU-PA-22-16-200-PA-22	1-85-00-20-00-HEU	P22	P22	200	16	120N	103N	0.58Kg
HEU-PA-22-25-80-PA-22	1-85-00-56-00-HEU	P22	P22	80	25	294N	247N	1.95Kg
HEU-PA-22-25-125-PA-22	1-85-00-60-00-HEU	P22	P22	125	25	294N	247N	2.24Kg
HEU-PA-22-25-200-PA-22	1-85-00-64-00-HEU	P22	P22	200	25	294N	247N	2.5Kg

Legend: C = Stroke D = Piston diameter E = Query via inductive proximity switch INS-4-2000 F = theor. cylinder force extending (at 6 bar) G = theor. cylinder force retracting (at 6 bar)

HEH-L-X-X-R-X Linear Stroke Unit for round





ADVANTAGES

- V1 - Precision linear guide
- V2 - To be mounted on profile
- V3 - Query with cylinder sensor ZYS possible
- V4 - Protected query

REMARK

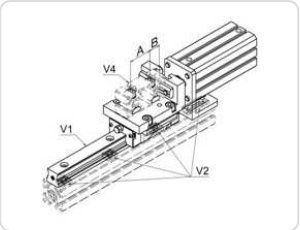
- Operating principle: Double-acting stroke
- Operating pressure: 6bar, use filtered and dried air

DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
HEH-L-20-50-R-20	1-80-24-02-00-HEH	20	50	20	0.82Kg	XPR / LPR

Legend: B = stroke C = Piston diameter X = for profile ...

HEH-L-X-X-P-X Linear Stroke Unit for Profile





ADVANTAGES

- V1 - Precision linear guide
- V2 - To be mounted on profile
- V3 - Query with cylinder sensor ZYS
- V4 - Profile can be attached to carriage
- V5 - Protected query

REMARK

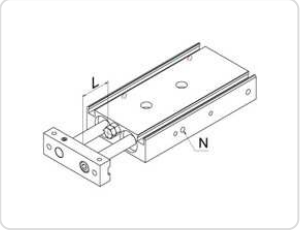
- Operating principle: Double-acting stroke
- Operating pressure: 6bar, use filtered and dried air

DESIGNATION	ITEM NO.	WEIGHT
HEH-L-20-80-P-25	1-80-24-20-00-002	0.89Kg

Legend: C = Stroke D = Piston diameter X = for profile ..

HEU-LC Stroke Unit with ball lining







ADVANTAGES

- V1 - Precision ball bushing guide
- V2 - Double piston cylinder
- V3 - Standard mounting options
- V4 - stroke position query possible

REMARK

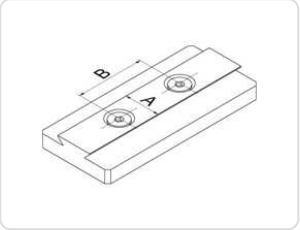
- Query with cylinder sensor ZYS-6-4-KSF
- Operating principle: Double-acting
- Ambient temperature: 0-60°C
- Operating pressure: 6bar filtered and dried air
- use

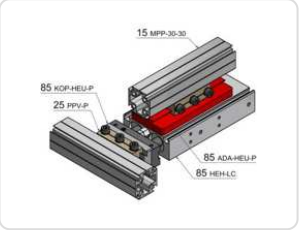
DESIGNATION	ITEM NO.	I	L	N	O	WEIGHT	X	J	K
HEU-16-50-LC	1-85-98-10-00-HEU	16	50	M5	240N	0.384Kg	180N		
HEU-16-100-LC	1-85-98-14-00-HEU	16	100	M5	240N	0.518Kg	180N		
HEU-20-50-LC	1-85-98-20-00-HEU	20	50	M5	376N	0.614Kg	282N		
HEU-20-100-LC	1-85-98-24-00-HEU	20	100	M5	376N	0.795Kg	282N		
HEH-12-30-LC-ST	1-85-98-48-00-HEH	12	30	M5		0.485Kg		132N	102N
HEH-12-30-LC-SP	1-85-98-49-00-HEH	12	30	M5		0.485Kg		132N	102N
HEH-12-50-LC-SP	1-85-98-51-00-HEH					0.485Kg			
HEH-12-75-LC-ST	1-85-98-54-00-HEH	12	75	M5				132N	102N
HEH-16-30-LC-ST	1-85-98-62-00-HEH								

Legend: I = Piston diameter L = stroke N = Air connection O = theor. cylinder force extending (at 6 bar) X = theor. cylinder force retracting (at 6 bar)

ADA-HEU-P Adapter Plate for Stroke Unit LC with Prism







ADVANTAGES

- V1 - this allows the HEU-LC lifting unit
- easily integrated into the PreciGrip system
- system

REMARK

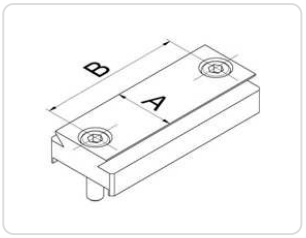
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

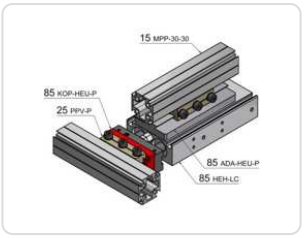
DESIGNATION	ITEM NO.	A	B	X	WEIGHT
ADA-HEU-16-50	1-85-99-10-00-ADA	P22	35	HEU-16-50-LC	
ADA-HEU-16-100	1-85-99-14-00-ADA	P22	55	HEU-16-100-LC	

DESIGNATION	ITEM NO.	A	B	X	WEIGHT
ADA-HEU-20-50	1-85-99-20-00-ADA	P22	40	HEU-20-50-LC	
ADA-HEU-20-100	1-85-99-24-00-ADA	P22	60	HEU-20-100-LC	0.152Kg

Legend: X = suitable for ...

KOP-HEU-P Head Plate for Stroke Unit LC with Prism



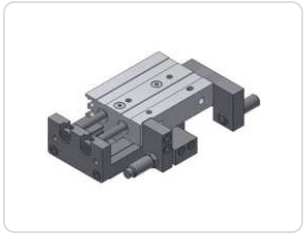
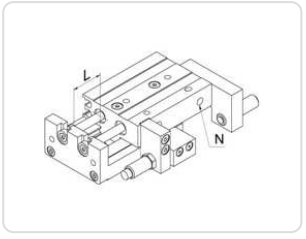
ADVANTAGES
- V1 - this allows PreciGrip components to be
- can be easily attached to the HEU-LC lifting unit

REMARK
- Material: Aluminium
- Scope of delivery:
- incl. fastening material

DESIGNATION	ITEM NO.	X
KOP-HEU-16-50	1-85-99-11-00-KOP	HEU-16-XX-LC
KOP-HEU-20	1-85-99-21-00-KOP	HEU-20-XX-LC

Legend: X = suitable for ...

HEH-LC Precision Stroke Unit



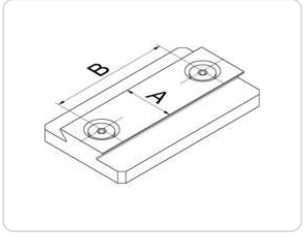
ADVANTAGES
- V1 - Precision ball bearing guide
- V2 - Standard mounting options
- V3 - Query stroke position possible
- V4 - with shock absorbers

REMARK
- Query with cylinder sensor ZYS-3.7-300-S
- or ZYS-3.7-2500-K possible
- Operating principle: Double-acting
- Ambient temperature: 0-60°C
- Operating pressure: 6 bar filtered and dried air
- use

DESIGNATION	ITEM NO.	I	J	K	L	N	WEIGHT
HEH-8-20-LC-ST	1-85-98-40-00-HEH	8	60N	42N	20	M5	0.159Kg
HEH-12-50-LC-ST	1-85-98-50-00-HEH	12	132N	102N	50	M5	0.485Kg
HEH-16-50-LC-ST	1-85-98-64-00-HEH	16	240N	180N	50	M5	0.906Kg

Legend: I = piston diameter J = theor. cylinder force extending (at 6 bar) K = theor. cylinder force retracting (at 6 bar) L = stroke N = Air connection

ADA-HEH-P Adapter Plate for Precision Stroke Unit LC with Prism



ADVANTAGES
- V1 - this allows the HEH-LC lifting unit
- easily integrated into the PreciGrip system
- system

REMARK
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

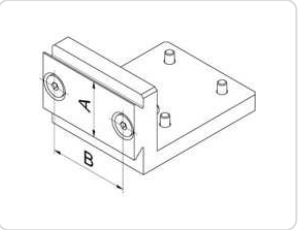
DESIGNATION	ITEM NO.	A	B	X
ADA-HEH-08-20	1-85-99-40-00-ADA	P22	25	HEH-8-20-LC-ST

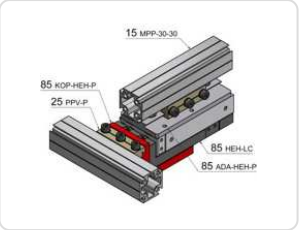
DESIGNATION	ITEM NO.	A	B	X
ADA-HEU-12-50	1-85-99-50-00-ADA	P22	2×36	HEH-12-50-LC-ST
ADA-HEU-12-50	1-85-99-64-00-ADA	P22	2×30	HEH-16-50-LC-ST

Legend: X = suitable for ...

KOP-HEH-P Head Plate for Precision Stroke Unit LC with Prism







ADVANTAGES

- V1 - PreciGrip components can be easily
- can be easily attached to the HEH-LC lifting unit

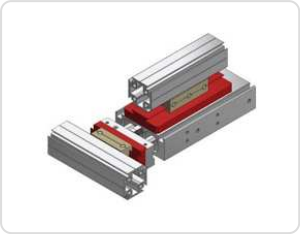
REMARK

- Material: Aluminium
- Scope of delivery:
- incl. mounting material

DESIGNATION	ITEM NO.	A	B	X
KOP-HEH-08-20	1-85-99-41-00-KOP	P22	30	HEH-8-20-LC-ST
KOP-HEH-12-50	1-85-99-51-00-KOP	P22	38	HEH-12-50-LC-ST

Legend: X = suitable for ...

ADP-P-FHE Adapter plate for external lifting unit



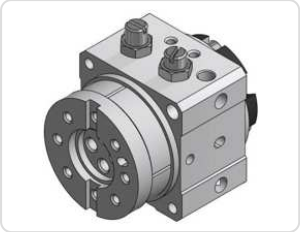


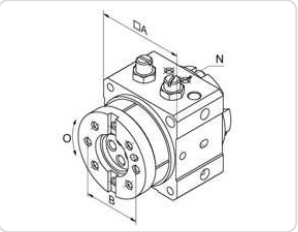
DESIGNATION	ITEM NO.
ADP-P-FHE	1-80-99-80-00-ADP
ADP-P-FHE-F	1-80-99-84-00-ADP

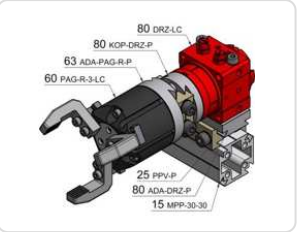
86.0 Rotary units



DRZ-LC Rotary cylinder







ADVANTAGES

- V1 - Angle of rotation adjustable from 0° to X
- V2 - Standard mounting options

REMARK

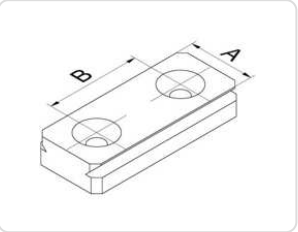
- Operating principle: Double-acting
- Operating pressure: 6bar filtered and dried air
- use

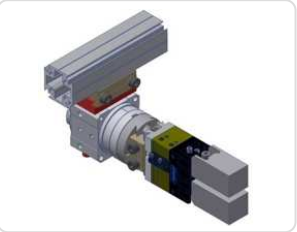
DESIGNATION	ITEM NO.	A	B	E	I	N	O	WEIGHT
DRZ-10-LC	1-80-98-10-00-DRZ	38	25	180°	10	M3	0,14Nm	0.146Kg
DRZ-15-LC	1-80-98-12-00-DRZ	44	30	180°	15	M5	0,38Nm	0.229Kg

Legend: E = max angle of rotation I = piston diameter N = Air connection O = Torque in Nm

ADA-DRZ-P Adapter plate for rotary cylinder with prism







ADVANTAGES

- V1 - this allows the DRZ-LC rotary unit to be
- easily integrated into the PreciGrip system
- system

REMARK

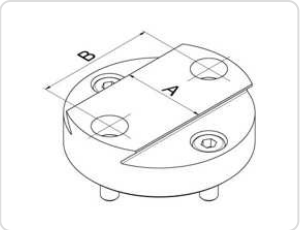
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

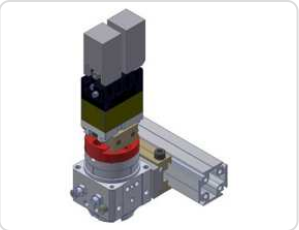
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
ADA-DRZ-10-P22	1-80-99-10-00-ADA	P22	27	0.038Kg	DRZ-10-LC
ADA-DRZ-15-P22	1-80-99-12-00-ADA	P22	29	0.04Kg	DRZ-15-LC

Legend: X = suitable for ...

KOP-DRZ-P Top plate for rotary cylinder with prism







ADVANTAGES

- V1 - This allows PreciGrip components to be
- can be easily attached to the DRZ-LC rotary unit

REMARK

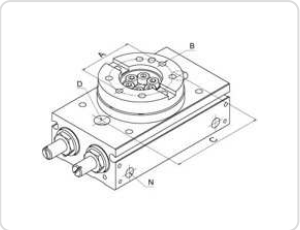
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

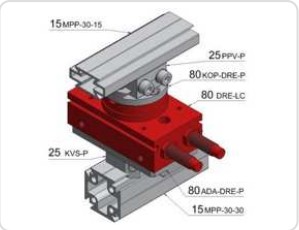
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KOP-DRZ-10-P22	1-80-99-11-00-KOP	P22	25	0.025Kg	DRZ-10-LC
KOP-DRZ-15-P22	1-80-99-13-00-KOP	P22	30	0.043Kg	DRZ-15-LC

Legend: X = suitable for ...

DRE-LC Rotary Unit







ADVANTAGES

- V1 - Angle of rotation adjustable from 0° to X
- V2 - Standard mounting options
- V3 - stroke position query possible

REMARK

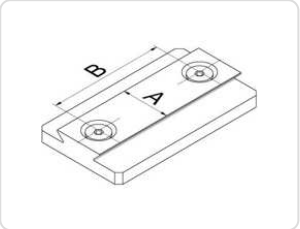
- Query with cylinder sensor ZYS-3,7-300-S
- and ZYS-3,7-2500-K
- Operating principle: Double-acting
- Version with rack and pinion
- Operating pressure: 6bar filtered and dried air
- use

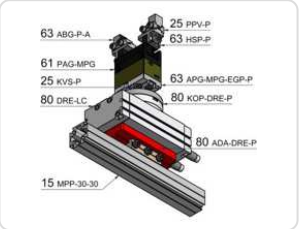
DESIGNATION	ITEM NO.	A	B	C	D	E	F	I	N	WEIGHT
DRE-7-180-LC	1-80-98-50-00-DRE	29	8xM4	50	Ø4,2	180°	0,6Nm	12	M5	0.233Kg
DRE-20-180-LC	1-80-98-54-00-DRE	43	8x M6	76	Ø8,6	180°	2,2Nm	18	M5	0.979Kg

Legend: E = max angle of rotation F = Torque I = Piston diameter N = air connection

ADA-DRE-P Adapterplate for Rotary Unit with Prism







ADVANTAGES

- V1 - this allows the rotary unit DRE-LC
- easily integrated into the PreciGrip system
- system

REMARK

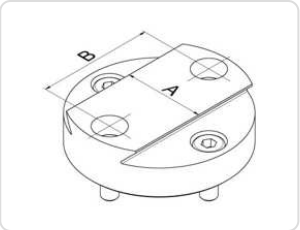
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

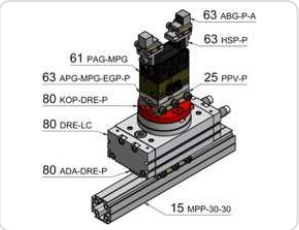
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
ADA-DRE-7-P22	1-80-99-50-00-ADA	P22	50	0.056Kg	DRE-7-180-LC
ADA-DRE-20-P22	1-80-99-54-00-ADA	P22	76	0.166Kg	DRE-20-180-LC

Legend: X = suitable for ...

KOP-DRE-P Top Plate for Rotary Unit with Prism







ADVANTAGES

- V1 - This allows PreciGrip components to be
- can be easily attached to the rotary unit DRE-LC

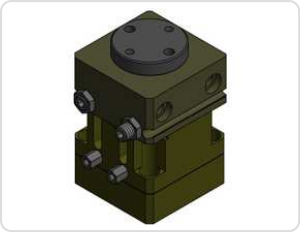
REMARK

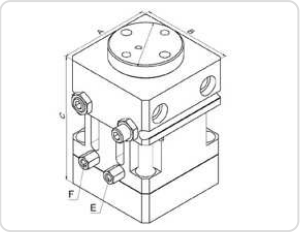
- Material: Aluminium
- Scope of delivery:
- incl. mounting material

DESIGNATION	ITEM NO.	A	B	WEIGHT	X
KOP-DRE-7-P22	1-80-99-51-00-KOP	P22	29	0.031Kg	DRE-7-180-LC
KOP-DRE-20-P22	1-80-99-55-00-KOP	P22	43	0.095Kg	DRE-20-180-LC

Legend: X = suitable for ...

SFL Vane Swivel Unit





ADVANTAGES

- V1 - compact design due to the almost cube-shaped structure allows the attachment of several modules
- V2 - Flexible adjustment of the swivelling angle from 0 to 180°
- V3 - Rotary angle adjustment for sensitive adjustment of the end positions
- V4 - Powerful for even higher masses and inertias thanks to the variant with hydraulic shock absorbers
- V5 - long service life and very good synchronisation behaviour

REMARK

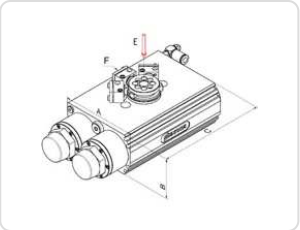
- alternatively available with 90° angle of rotation
- To maintain position in the event of a pressure drop, the
- SDV-P pressure maintenance valve can be used
- Operating pressure: 6 bar
- use filtered and dried air
- Mounting option: ADA-SFL adapter plate
- Please order sensor separately

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	K	L	J
SFL-25-E-180	1-61-40-10-00-SFL	28	25	47,5	22	M3	M3	180°	180°	x	10N	0,05°	
SFL-40-E-180	1-61-40-20-00-SFL	40	40	55,5	28	M3	M3	180°	180°	x	30N	0,05°	
SFL-40-S-180	1-61-40-30-00-SFL	40	40	55,5	28	M3	M3	180°	180°		30N	0,05°	x
SFL-64-E-180	1-61-40-40-00-SFL	64	64	72	52	M5	M5	180°	180°	x	50N	0,05°	
SFL-64-S-180	1-61-40-50-00-SFL	64	64	72	52	M5	M5	180°	180°		50N	0,05°	x

Legend: E = main, direct connection swivel unit clockwise rotation F = main, direct connection swivel unit left-hand rotation G = angle of rotation H = end position adjustability I = with elastomer end position damping J = with hydraulic dampers K = max. flange load L = repeat accuracy

SRU-plus Swivel unit plus





ADVANTAGES

- V1 – cleanly graduated series with even torque growth: for many applications, the right size is available as a standard product
- V2 –swivelling angle 90° or 180° selectable, special angles are available on request
- V3 –end position adjustability +3°/-3° (small) or +3°/-90° (large) selectable
- V4 – centre position pneumatic or locked selectable: the locked centre position can be unlocked under load. From both types of centre position, it is always possible to swivel further in any direction

REMARK

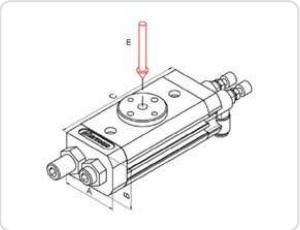
- we offer the following type of swivel units:
- - soft damping type
- - 180° swivel angle
- - 90° end position adjustability
- - no centre position
- - with fluid feed-through
- - with electrical feed-through
- - including mounting kit for inductive proximity switches
- other designs with different damping,
- swivel angles, end position adjustability, centre position,
- fluid feed-through selectable
- Operating pressure: use 6 bar filtered and dried
- air
- Mounting option: ADA-SRU+ adapter plate

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J
SRU+20-W-180-90-AS	1-61-42-10-00-SRU	76	47	117	3,4Nm	800N	AS	180°	90°	4	M8
SRU+25-W-180-90-AS	1-61-42-20-00-SRU	86	55	117	5Nm	800N	AS	180°	90°	4	M8
SRU+30-W-180-90-AS	1-61-42-30-00-SRU	96	55	138	9,5Nm	800N	AS	180°	90°	4	M8
SRU+35-W-180-90-AS	1-61-42-40-00-SRU	107	60	147	14Nm	1500N	AS	180°	90°	4	M8
SRU+40-W-180-90-AS	1-61-42-50-00-SRU	121	69	171	20Nm	2900N	AS	180°	90°	8	M8

Legend: D = Torque Nm E = max. pinion load (static value) F = with mounting kit for inductive proximity switches G = Angle of rotation ° H = End position adjustability ° I = Number of fluid feed-throughs J = Plug size for electrical feed-through (plug on the rotating side)

SRU-mini Swivel Unit Mini





ADVANTAGES

- V1 – cleanly graduated series with even torque increase: for many applications, the right size is available as a standard product
- V2 – always with large end position adjustability for flexible
- adjustment of the swivel angle
- V3 – backlash-free end positions for high accuracy
- V4 – series continuation upwards through the SRU-plus series, for a wide range of applications

REMARK

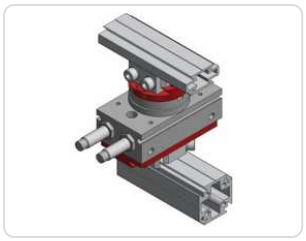
- we offer the following type of swivel units:
- - soft damping type
- - 180° swivel angle
- - 90° end position adjustability
- - no centre position
- - no fluid feed-through
- - no electrical feed-through
- other designs with different damping,
- swivel angles, end position adjustability, centre position,
- fluid feed-through selectable
- operating pressure: use 6 bar filtered and dried
- air
- mounting option: ADA-SRU-mini adapter plate

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G
SRU-8.2-W	1-61-44-10-00-SRU	29	22	68	0,2Nm	255N	180°	90°
SRU-10.2-W	1-61-44-20-00-SRU	31	22	80	0,28Nm	255N	180°	90°
SRU-12.2-W	1-61-44-30-00-SRU	39	29	101	0,75Nm	350N	180°	90°

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G
SRU-14.2-W	1-61-44-40-00-SRU	43	31	101	1,15Nm	350N	180°	90°

Legend: D = Torque Nm E = max. pinion load (static values) F = Angle of rotation ° G = End position adjustability °

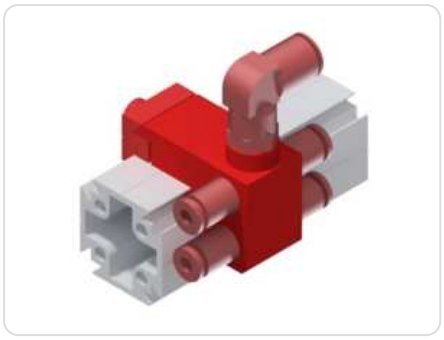
ADP-P-FDE Adapter plate for third-party rotary units





DESIGNATION	ITEM NO.
ADP-P-FDE-K Kopfplatte	1-80-99-90-00-ADP
ADP-P-FDE-F	1-80-99-94-00-ADP

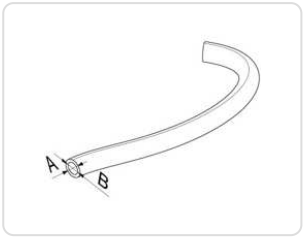
90.0 Pneumatic



TUBE

PSC Pneumatic Compressed Air Hose Silver





ADVANTAGES

- V1 - smallest bending radii
- V2 - polyurethane

REMARK

- - Colour: silver

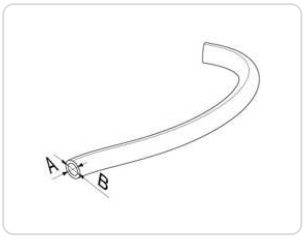
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PSC-4	1-90-00-00-01-PSC	4	2,5	20m	0.009Kg
PSC-6	1-90-00-00-03-PSC	6	4	20m	0.022Kg
PSC-8	1-90-00-00-05-PSC	8	5	20m	0.037Kg
PSC-10	1-90-00-00-07-PSC	10	6,5	20m	0.045Kg
PSC-3-10	1-90-00-00-09-PSC	3	2,1	10m	0.004Kg

Legend: A = outer diameter B = inner diameter C = hose length in metres

TUBE

PSC-X-X Pneumatic Compressed Air Hose Colors





ADVANTAGES

- V1 - smallest bending radii
- V2 - polyurethane

REMARK

- - Available colours: blue, black, red, yellow, transparent

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PSC-4-B	1-90-00-01-01-PSC	4	2,5	blau	0.009Kg
PSC-6-B	1-90-00-01-03-PSC	6	4	blau	0.022Kg
PSC-8-B	1-90-00-01-05-PSC	8	5	blau	0.037Kg
PSC-4-S	1-90-00-01-09-PSC	4	2,5	schwarz	0.022Kg
PSC-6-S	1-90-00-01-11-PSC	6	4	schwarz	0.022Kg
PSC-4-R	1-90-00-01-14-PSC	4	2,5	rot	0.009Kg
PSC-6-R	1-90-00-01-16-PSC	6	4	rot	0.022Kg
PSC-4-GE	1-90-00-01-19-PSC	4	2,5	gelb	0.009Kg

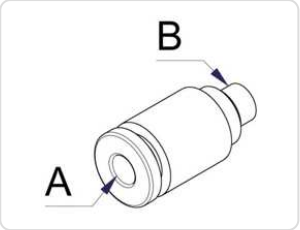
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PSC-6-GE	1-90-00-01-21-PSC	6	4	gelb	0.022Kg
PSC-6-GR	1-90-00-01-26-PSC	6	4	grün	0.022Kg
PSC-4-T	1-90-00-01-29-PSC	4	2,5	transparent	0.022Kg
PSC-6-T	1-90-00-01-31-PSC	6	4	transparent	0.022Kg

Legend: A = outer diameter B = inner diameter

90.2 - QUICK CONNECTOR WITH THREAD

PGS Pneumatic Straight Hose Connector





ADVANTAGES

- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-in fitting

REMARK

- All straight push-in fittings PGS with hexagon socket except PGS-14-4 with hexagon head
- Shipping unit:
- PU = 10 pieces
- Price: 1 PU

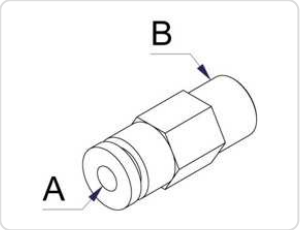
DESIGNATION	ITEM NO.	A	B	WEIGHT
PGS-5-4	1-90-00-00-20-PGS	PSC4	M5	0.005Kg
PGS-5-6	1-90-00-00-22-PGS	PSC6	M5	0.004Kg
PGS-18-4	1-90-00-00-24-PGS	PSC4	G1/8	0.007Kg
PGS-18-6	1-90-00-00-26-PGS	PSC6	G1/8	0.008Kg
PGS-18-8	1-90-00-00-28-PGS	PSC8	G1/8	0.012Kg
PGS-14-4	1-90-00-00-30-PGS	PSC4	G1/4	0.012Kg
PGS-14-6	1-90-00-00-32-PGS	PSC6	G1/4	0.012Kg
PGS-14-8	1-90-00-00-34-PGS	PSC8	G1/4	0.012Kg
PGS-14-10	1-90-00-00-36-PGS	PSC10	G1/4	

Legend: A = suitable for pneumatic hose ... B = connection thread

90.2 - QUICK CONNECTOR WITH THREAD

PGS-V Pneumatic Straight Hose Connector with Stop Valve





ADVANTAGES

- V1 - with shut-off valve
- V2 - optimum hose connection
- V3 - self-sealing thread
- V4 - quick push-in fitting

REMARK

- - When the hose is disconnected, the fitting closes automatically
- - All push-in fittings with external hexagon

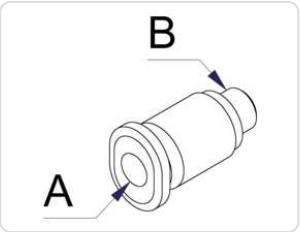
DESIGNATION	ITEM NO.	A	B	WEIGHT
PGS-18-4-V	1-90-00-00-40-PGS	PSC4	G1/8	0.01Kg
PGS-18-6-V	1-90-00-00-42-PGS	PSC6	G1/8	0.013Kg
PGS-14-8-V	1-90-00-00-44-PGS	PSC8	G1/4	0.019Kg

Legend: A = suitable for pneumatic hose ... B = connection thread

90.2 - QUICK CONNECTOR WITH THREAD

PGS-S Pneumatic Straight Hose Connector Small version





ADVANTAGES

- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-fit connection
- V4 - narrow design

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

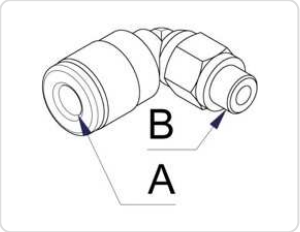
DESIGNATION	ITEM NO.	A	B	WEIGHT
PGS-3-3-S	1-90-00-00-68-PGS	PSC-3	M3	0.001Kg
PGS-5-4	1-90-00-00-69-PGS	PSC3	M5	0.003Kg
PGS-5-4	1-90-00-00-70-PGS	PSC4	M5	0.003Kg
PGS-5-6	1-90-00-00-72-PGS	PSC6	M5	0.003Kg
PGS-18-4	1-90-00-00-74-PGS	PSC-4	G1/8	0.003Kg
PGS-18-6-S	1-90-00-00-76-PGS	PSC6	G1/8	0.003Kg

Legend: A = suitable for pneumatic hose ... B = connection thread

90.2 - QUICK CONNECTOR WITH THREAD

PWS Pneumatic L Hose Connector





ADVANTAGES

- V1 - optimal hose connection
- V2 - self-sealing thread
- V3 - quick push-fit connection

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

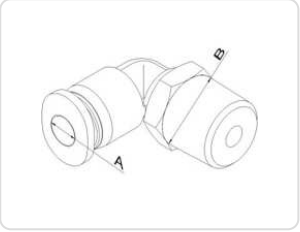
DESIGNATION	ITEM NO.	A	B	WEIGHT
PWS-3-4	1-90-10-01-00-PWS	PSC4	M3	0.002Kg
PWS-5-4	1-90-10-02-00-PWS	PSC4	M5	0.003Kg
PWS-5-6	1-90-10-02-02-PWS	PSC6	M5	0.003Kg
PWS-18-4	1-90-10-02-04-PWS	PSC4	G1/8	0.008Kg
PWS-18-6	1-90-10-02-06-PWS	PSC6	G1/8	0.009Kg
PWS-18-8	1-90-10-02-08-PWS	PSC8	G1/8	0.011Kg
PWS-14-4	1-90-10-02-10-PWS	PSC4	G1/4	0.017Kg
PWS-14-6	1-90-10-02-12-PWS	PSC6	G1/4	0.018Kg
PWS-14-8	1-90-10-02-14-PWS	PSC8	G1/4	0.02Kg
PWS-14-10	1-90-10-02-16-PWS	PSC10	G1/4	

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

PWS-S Pneumatic L Hose Connector Small Version





ADVANTAGES

- V1 - optimal hose connection
- V2 - self-sealing thread
- V3 - quick push-fit connection
- V4 - narrow design

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

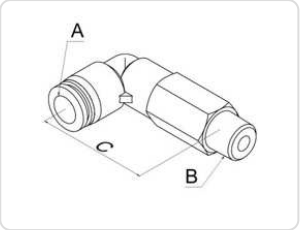
DESIGNATION	ITEM NO.	A	B	WEIGHT
PWS-5-4-S	1-90-10-02-18-PWS	PSC-4	M5	0.003Kg
PWS-5-6-S	1-90-10-02-20-PWS	PSC-6	M5	0.003Kg
PWS-18-4-S	1-90-10-02-22-PWS	PSC-4	G1/8	0.003Kg
PWS-18-6-S	1-90-10-02-24-PWS	PSC-6	G1/8	0.003Kg

Legend: A = suitable for pneumatic hose ... B = connection thread

90.2 - QUICK CONNECTOR WITH THREAD

PWS-L Pneumatic L Hose Connector Large Version





ADVANTAGES
- V1 - optimal hose connection
- V2 - self-sealing thread
- V3 - quick push-fit connection
- V4 - rotatable

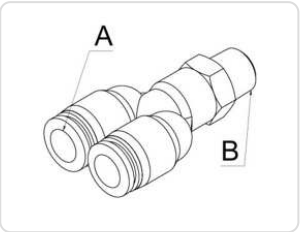
DESIGNATION	ITEM NO.	A	B	C
PWS-L-4-M5	1-90-60-30-00-PWS	PSC-4	M5	28,9
PWS-L-4-18	1-90-60-32-00-PWS	PSC-4	1/8	25,5
PWS-L-6-M5	1-90-60-35-00-PWS	PSC-6	M5	33,5
PWS-L-6-18	1-90-60-37-00-PWS	PSC-6	1/8	32

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVY-2SA Pneumatic Y push-in fitting with 2 push-in connections





ADVANTAGES
- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-in connection
- V4 - rotatable

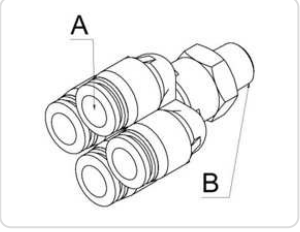
DESIGNATION	ITEM NO.	A	B
SVY-2SA-6-18	1-90-60-10-00-SVY	PSC-4	1/8
SVY-2SA-6-18	1-90-60-13-00-SVY	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVY-4SA Pneumatic Y push-in fitting with 4 push-in connections





ADVANTAGES
- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-in connection
- V4 - rotatable

DESIGNATION	ITEM NO.	A	B
SVY-4SA-4-18	1-90-60-90-00-SVY	PSC-4	1/8

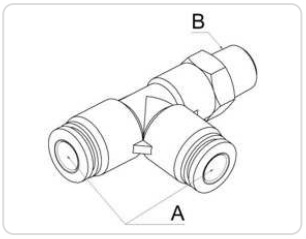
DESIGNATION	ITEM NO.	A	B
SVY-4SA-6-18	1-90-60-92-00-SVY	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVT-2SA Pneumatic push-in T-fitting with 2 push-in connections





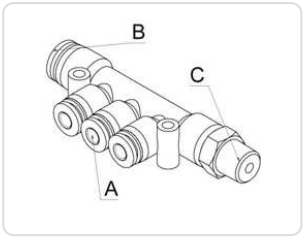
DESIGNATION	ITEM NO.	A	B
SVT-2SA-4-18	1-90-60-40-00-SVT	PSC-4	1/8
SVT-2SA-6-18	1-90-60-43-00-SVT	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVT-4SA Pneumatic push-in T-fitting with 4 push-in connections





ADVANTAGES

- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-in connection
- V4 - rotatable

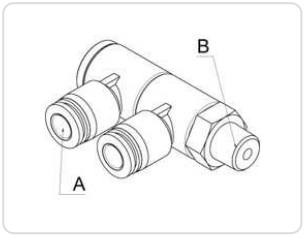
DESIGNATION	ITEM NO.	A	B	C
SVT-4SA-4-6-18	1-90-60-50-00-SVT	PSC-4	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVS-W-2SA Pneumatic push-in fitting Elbow with 2 push-in connections





ADVANTAGES

- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-in connection
- V4 - rotatable

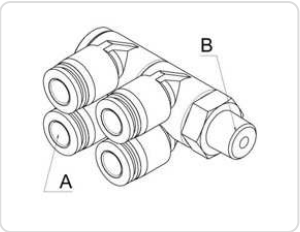
DESIGNATION	ITEM NO.	A	B
SVS-W-2SA-4-18	1-90-60-60-00-SVS	PSC-4	1/8
SVS-W-2SA-6-18	1-90-60-64-00-SVS	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVS-W-4SA Pneumatic push-in fitting Elbow with 4 push-in connections





ADVANTAGES

- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick push-in connection
- V4 - rotatable

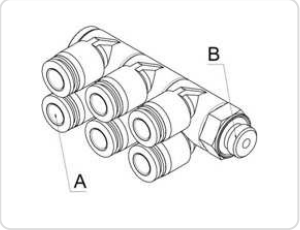
DESIGNATION	ITEM NO.	A	B
SVS-W-4SA-4-18	1-90-60-70-00-SVS	PSC-4	1/8
SVS-W-4SA-6-18	1-90-60-74-00-SVS	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

SVS-W-6SA Pneumatic push-in fitting Elbow with 6 push-in connections





ADVANTAGES

- V1 - optimum hose connection
- V2 - self-sealing thread
- V3 - quick connector
- V4 - rotatable

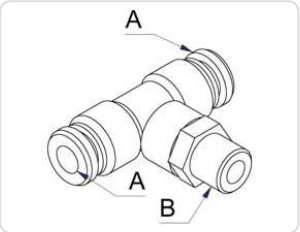
DESIGNATION	ITEM NO.	A	B
SVS-W-6SA-4-18	1-90-60-80-00-SVS	PSC-4	1/8
SVS-Y-6SA-6-18	1-90-60-84-00-SVS	PSC-6	1/8

Legend: A = suitable for pneumatic hose ... B = Connection thread

90.2 - QUICK CONNECTOR WITH THREAD

PTG Pneumatic T Hose Connector Thread





ADVANTAGES

- V1 - optimum hose connection
- V2 - quick connector

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

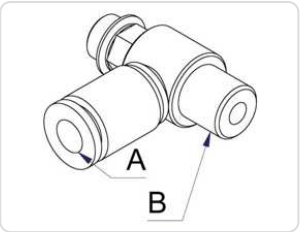
DESIGNATION	ITEM NO.	A	B	WEIGHT
PTG-18-4-4	1-90-10-04-10-PTG	G1/8	PSC4	0.011Kg
PTG-18-6-6	1-90-10-04-12-PTG	G1/8	PSC6	0.015Kg
PTG-5-4-4	1-90-10-04-14-PTG	M5	PSC4	0.009Kg
PTG-5-6-6	1-90-10-04-16-PTG	M5	PSC6	0.01Kg
PTG-5-4-4	1-90-10-07-05-PTG	M3	PSC3	0.01Kg

Legend: A = connection thread B = suitable for pneumatic hose ..

90.2 - QUICK CONNECTOR WITH THREAD

PAD Pneumatic Exhaust Throttle





ADVANTAGES

- V1 - Optimised hose connection
- V2 - quick connector

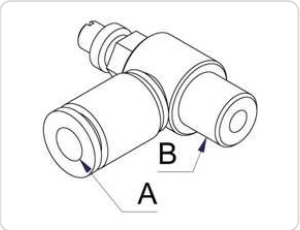
DESIGNATION	ITEM NO.	A	B	WEIGHT
PAD-5-4	1-90-10-06-20-PAD	PSC4	M5	0.009Kg
PAD-5-6	1-90-10-06-22-PAD	PSC6	M5	0.009Kg
PAD-18-4	1-90-10-06-23-PAD	PSC-4	G1/8	0.02Kg
PAD-18-6	1-90-10-06-24-PAD	PSC6	G1/8	0.02Kg

Legend: A = suitable for ... B = self-sealing thread

90.2 - QUICK CONNECTOR WITH THREAD

PED Pneumatic Intake Throttle





ADVANTAGES

- V1 - optimum hose connection
- V2 - quick connector

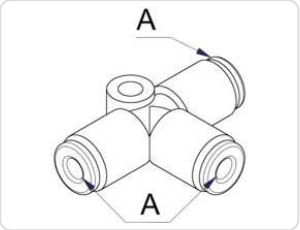
DESIGNATION	ITEM NO.	A	B	WEIGHT
PED-5-4	1-90-10-06-40-PED	PSC4	M5	0.009Kg
PED-5-6	1-90-10-06-42-PED	PSC6	M5	0.009Kg
PED-18-6	1-90-10-06-44-PED	PSC6	G1/8	0.02Kg

Legend: A = suitable for ... B = self-sealing thread

90.3 - QUICK CONNECTOR WITHOUT THREAD

PTS Pneumatic T Hose Connector





ADVANTAGES

- V1 - optimal hose connection
- V2 - mounting hole
- V3 - quick connector

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

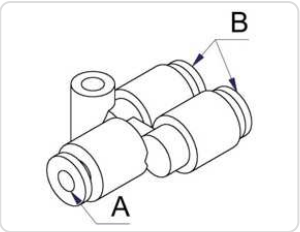
DESIGNATION	ITEM NO.	A	WEIGHT
PTS-4-4-4	1-90-10-04-02-PTS	PSC4	0.004Kg
PTS-6-6-6	1-90-10-04-04-PTS	PSC6	0.007Kg
PTS-8-8-8 T	1-90-10-04-06-PTS	PSC8	0.01Kg

Legend: A = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PYS Pneumatic Y Hose Connector





ADVANTAGES

- V1 - optimal hose connection
- V2 - mounting hole
- V3 - quick connector

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

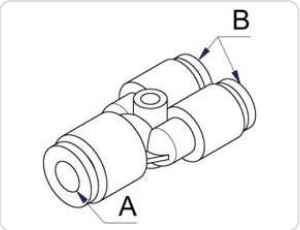
DESIGNATION	ITEM NO.	A	B	WEIGHT
PYS-3-3-3	1-90-10-04-18-PYS	PSC3	PSC3	
PYS-4-4-4 Y	1-90-10-04-20-PYS	PSC4	PSC4	0.005Kg
PYS-6-6-6 Y	1-90-10-04-22-PYS	PSC6	PSC6	0.007Kg
PYS-8-8-8 Y	1-90-10-04-24-PYS	PSC8	PSC8	0.011Kg

Legend: A and B = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PYR Pneumatic Y Hose Connector Reduction





ADVANTAGES

- V1 - optimal hose connection
- V2 - mounting hole
- V3 - quick connector

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

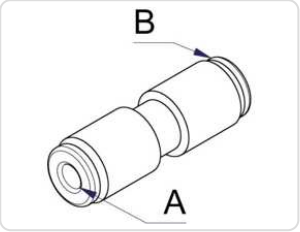
DESIGNATION	ITEM NO.	A	B	WEIGHT
PYR-3-3-4 Y	1-90-10-04-26-PYR	PSC4	PSC3	
PYR-4-4-6	1-90-10-04-28-PYR	PSC6	PSC4	0.005Kg
PYR-6-6-8 Y	1-90-10-04-30-PYR	PSC8	PSC6	0.007Kg

Legend: A and B = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PSV Pneumatic Straight Hose Connector





ADVANTAGES

- V1 - optimum hose connection
- V2 - quick connector

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

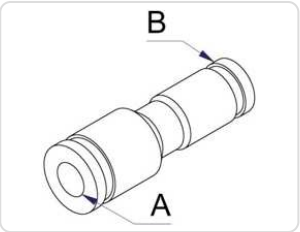
DESIGNATION	ITEM NO.	A	B	WEIGHT
PSV-4-4	1-90-10-04-38-PSV	PSC3	PSC3	0.003Kg
PSV-4-4	1-90-10-04-40-PSV	PSC4	PSC4	0.003Kg
PSV-6-6	1-90-10-04-42-PSV	PSC6	PSC6	0.004Kg
PSV-8-8	1-90-10-04-44-PSV	PSC8	PSC8	0.006Kg

Legend: A and B = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PSR Pneumatic Straight Hose Connector Reduction





ADVANTAGES

- V1 - optimal hose connection
- V2 - Reduction to smaller hose diameter
- V3 - quick connector

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

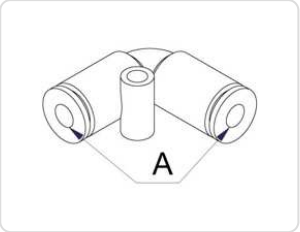
DESIGNATION	ITEM NO.	A	B	WEIGHT
PSR-4-3	1-90-10-04-48-PSR	PSC-4	PSC-3	0.003Kg
PSR-6-4	1-90-10-04-50-PSR	PSC-6	PSC-4	0.004Kg
PSR-8-4	1-90-10-04-52-PSR	PSC-8	PSC-4	0.005Kg
PSR-8-6	1-90-10-04-54-PSR	PSC-8	PSC-6	0.006Kg
PSR-10-6	1-90-10-04-56-PSR	PSC-10	PSC-6	0.008Kg
PSR-10-8	1-90-10-04-58-PSR	PSC-10	PSC-8	0.008Kg

Legend: A and B = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PSE Pneumatic Corner Hose Connector





ADVANTAGES

- V1 - optimum hose connection
- V2 - quick connector
- V3 - Mounting hole

REMARK

- Shipping unit: PU = 10 pieces
- Price: 1 PU

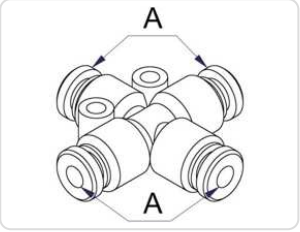
DESIGNATION	ITEM NO.	A	WEIGHT
PSE-4-4	1-90-10-04-60-PSE	PSC4	0.004Kg
PSE-6-6	1-90-10-04-62-PSE	PSC6	0.006Kg
PSE-8-8	1-90-10-04-64-PSE	PSC8	0.008Kg

Legend: A = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PXS Pneumatic X Quick Hose Connector





ADVANTAGES

- V1 - optimal hose connection
- V2 - quick connector
- V3 - mounting hole

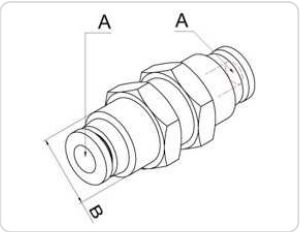
DESIGNATION	ITEM NO.	A	WEIGHT
PXS-4-4-4-4	1-90-10-04-66-PXS	PSC4	0.007Kg
PXS-6-6-6-6	1-90-10-04-77-PXS	PSC6	0.011Kg

Legend: A = suitable for pneumatic hose ..

90.3 - QUICK CONNECTOR WITHOUT THREAD

PSV-SV Pneumatic Hose Connector with bulkhead connection





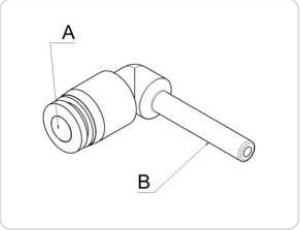
DESIGNATION	ITEM NO.	A	B
PSV-SV-4-M12	1-90-60-00-00-PSV	PSC-4	M12×1
PSV-SV-6-M14	1-90-60-01-00-PSV	PSC-6	M14×1

Legend: A = suitable for pneumatic hose ...

90.3 - QUICK CONNECTOR WITHOUT THREAD

ESV-W Pneumatic push-in connector Elbow





ADVANTAGES

- V1 - Quick connector

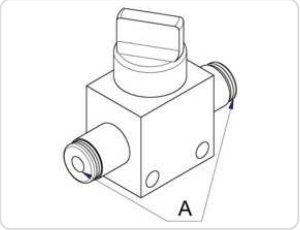
DESIGNATION	ITEM NO.	A	B
SVY-6-18	1-90-60-20-00-ESV	PSC-4	4

Legend: A = suitable for pneumatic hose ... B = suitable for push-in connection Ø

90.4 - QUICK CONNECTOR MISCELLANEOUS

PKH Pneumatic Ball Valve





ADVANTAGES

- V1 - Locking air or vacuum lines
- V2 - Quick connector

REMARK

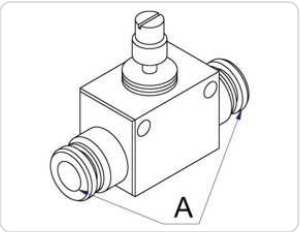
- without venting
- Material: Plastic

DESIGNATION	ITEM NO.	A	WEIGHT
PKH-4-4	1-90-14-00-10-PKH	PSC4	0.013Kg
PKH-6-6	1-90-14-00-12-PKH	PSC6	0.014Kg
PKH-8-8	1-90-14-00-14-PKH	PSC8	0.016Kg

90.4 - QUICK CONNECTOR MISCELLANEOUS

PND Pneumatic Throttle





ADVANTAGES

- V1 - optimum hose connection
- V2 - quick connector
- V3 - Ideally suited for air regulation

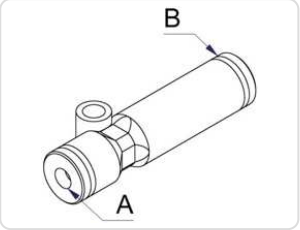
DESIGNATION	ITEM NO.	A	WEIGHT
PND-4-4	1-90-10-06-50-PND	PSC4	0.009Kg
PND-6-6	1-90-10-06-52-PND	PSC6	0.015Kg
PND-8-8	1-90-10-06-54-PND	PSC8	0.06Kg

Legend: A = suitable for ...

90.4 - QUICK CONNECTOR MISCELLANEOUS

PRV Pneumatic nonreturn valve





ADVANTAGES

- V1 - Simple installation
- V2 - Quick plug-in connection

REMARK

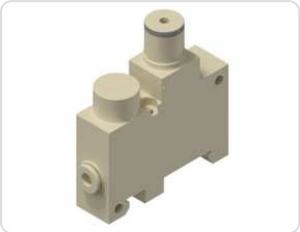
- Material: Plastic

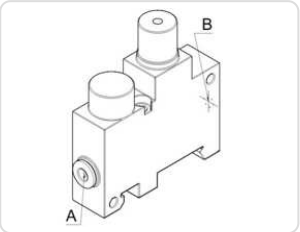
DESIGNATION	ITEM NO.	A	B	WEIGHT
PRV-4-4	1-90-14-00-60-PRV	PSC4	PSC4	0.006Kg
PRV-6-6	1-90-14-00-62-PRV	PSC6	PSC6	0.009Kg
PRV-8-8	1-90-14-00-64-PRV	PSC8	PSC8	0.011Kg

Legend: A and B = suitable for pneumatic hose ...

90.4 - QUICK CONNECTOR MISCELLANEOUS

DRU Pressure control valve





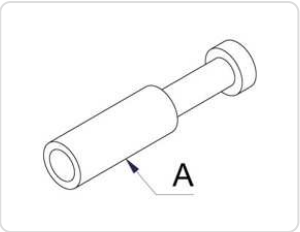
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
DRU-4-4	1-90-50-10-00-DRU	6	6	0.03Kg	PSC-4
DRU-6-6	1-90-50-12-00-DRU	8	8	0.03Kg	PSC-6

Legend: X = suitable for pneumatic hose PSC-....

90.4 - QUICK CONNECTOR MISCELLANEOUS

PVS-S Pneumatic Plug Quick





REMARK

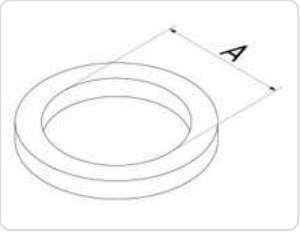
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	WEIGHT
PVS-4-S	1-90-30-10-10-PVS	4	0.001Kg
PVS-6-S	1-90-30-10-12-PVS	6	0.001Kg
PVS-8-S	1-90-30-10-14-PVS	8	0.002Kg

90.5 - SCREW CONNECTIONS

PDR Pneumatic Seal Ring





REMARK

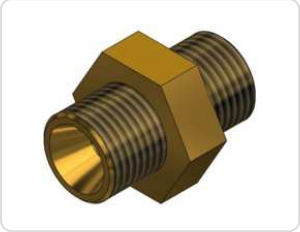
- Shipping unit:
- PU = 100 pieces / PDR-38 = 10 pieces
- Price: 1 PU
- Material:
- - for M5: PVC without plasticiser (polyvinyl chloride), heat-resistant
- PTFE (polytetrafluoroethylene) and aluminium
- - for 1/8", 1/4" and 3/8" aluminium
- For adapters with an M5 thread, we recommend using our
- PDR-5-PVC polyvinyl chloride sealing rings.

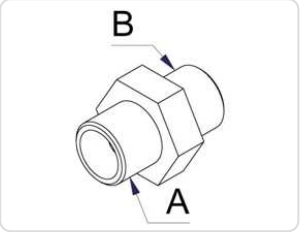
DESIGNATION	ITEM NO.	A	X	WEIGHT
PDR-5	1-90-00-00-10-PDR	M5	Al	
PDR-18	1-90-00-00-12-PDR	G1/8	Al	
PDR-14	1-90-00-00-14-PDR	G1/4	Al	
PDR-38	1-90-00-00-16-PDR	G3/8	Al	0.001Kg

Legend: A = for thread X = Material

90.5 - SCREW CONNECTIONS

PDN Pneumatic Double Union





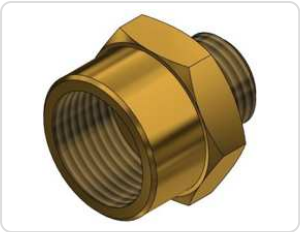
REMARK

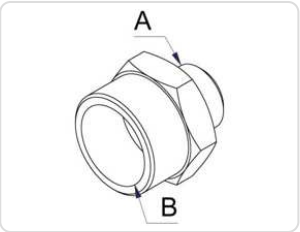
- Two PDR sealing rings are required
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
PDN-5-5	1-90-10-04-60-PDN	M5	M5	0.002Kg
PDN-18-18	1-90-10-04-62-PDN	G1/8	G1/8	0.011Kg
PDN-14-14	1-90-10-04-64-PDN	G1/4	G1/4	0.019Kg
PDN-38-18	1-90-10-04-65-PDN	G3/8	G1/8	0.029Kg
PDN-38-14	1-90-10-04-66-PDN	G3/8	G1/4	0.029Kg
PDN-14-18	1-90-10-04-68-PDN	G1/4	G1/8	0.019Kg

90.5 - SCREW CONNECTIONS

PES Pneumatic Expansion Union



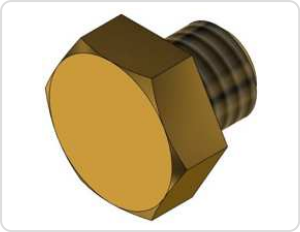


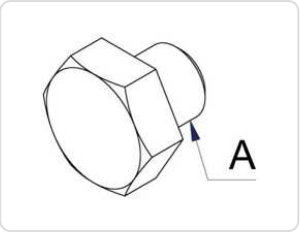
REMARK
- two PDR sealing rings are required
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
PES-14-38	1-90-10-05-80-PES	G1/4	G3/8	0.031Kg

90.5 - SCREW CONNECTIONS

PVS Pneumatic Hex Plug



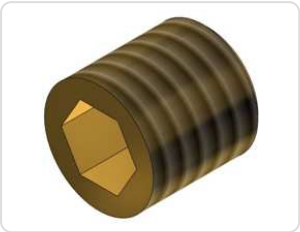


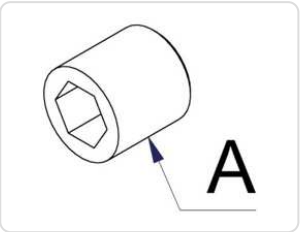
REMARK
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	WEIGHT
PVS-5	1-90-12-00-10-PVS	M5	0.002Kg
PVS-18	1-90-12-00-12-PVS	G1/8	0.007Kg
PVS-14	1-90-12-00-14-PVS	G1/4	0.015Kg

90.5 - SCREW CONNECTIONS

PVS-E Pneumatic Hex Plug easy





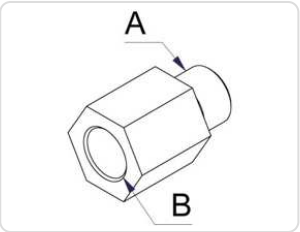
REMARK
- Medium-strength SSM threadlocker is required
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	WEIGHT
PVS-5-E	1-90-12-00-16-PVS	M5	
PVS-18-E	1-90-12-00-17-PVS	G1/8	0.002Kg
PVS-14-E	1-90-12-00-18-PVS	G1/4	0.007Kg

90.5 - SCREW CONNECTIONS

PRS-L Pneumatic Reducing Union Long



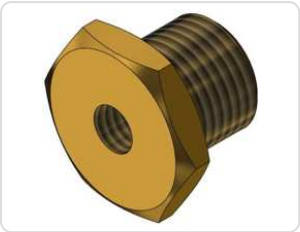


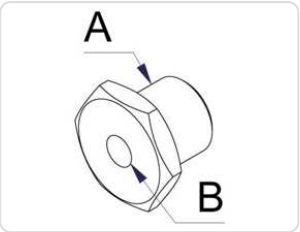
REMARK
- two sealing rings PDR are required (except for
- PRS-L-5-5-ORI only one sealing ring, as the
- external thread is equipped with an O-ring)
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
PRS-L-5-5-ORI reducing nipple with O-ring	1-90-10-04-89-PRS	M5	M5	0.006Kg
PRS-L-18-18	1-90-10-04-90-PRS	G1/8	G1/8	0.017Kg
PRS-L-18-14	1-90-10-04-92-PRS	G1/8	G1/4	0.023Kg
PRS-L-14-18	1-90-10-04-94-PRS	G1/4	G1/8	0.035Kg
PRS-L-14-14	1-90-10-04-96-PRS	G1/4	G1/4	0.027Kg

90.5 - SCREW CONNECTIONS

PRS Pneumatic Reducing Union





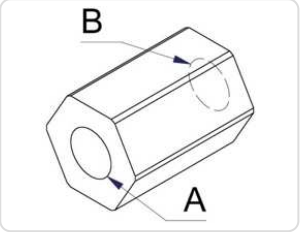
REMARK
- Two PDR sealing rings are required
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
PRS-18-5	1-90-10-04-80-PRS	G1/8	M5	0.008Kg
PRS-14-5	1-90-10-04-81-PRS	G1/4	M5	0.016Kg
PRS-14-18	1-90-10-04-82-PRS	G1/4	G1/8	0.008Kg
PRS-38-18	1-90-10-04-83-PRS	G3/8	G1/8	0.021Kg
PRS-38-14	1-90-10-04-84-PRS	G3/8	G1/4	0.011Kg
PRS-12-14	1-90-10-04-86-PRS	G1/2	G1/4	0.036Kg
PRS-12-38	1-90-10-04-88-PRS	G1/2	G3/8	0.025Kg

90.5 - SCREW CONNECTIONS

PVM Pneumatic Thread Coupling





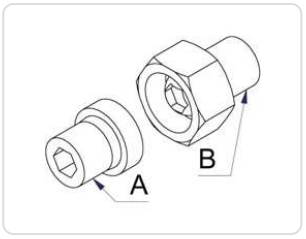
REMARK
- Two PDR sealing rings are required
- Shipping unit: PU = 10 pieces
- Price: 1 PU
- Material:
- Brass

DESIGNATION	ITEM NO.	A	B	WEIGHT
PVM-5-5	1-90-10-06-02-PVM	M5	M5	0.004Kg
PVM-18-18	1-90-10-06-04-PVM	G1/8	G1/8	0.018Kg
PVM-14-14	1-90-10-06-06-PVM	G1/4	G1/4	0.028Kg
PVM-38-38	1-90-10-06-08-PVM	G3/8	G3/8	

90.5 - SCREW CONNECTIONS

PDN-L Pneumatic Double Union Removable





ADVANTAGES
- V1 - For easy release of 2 components

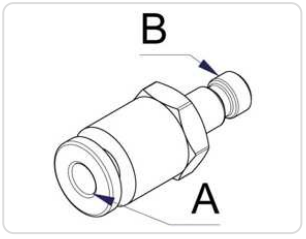
REMARK
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
PDN-L-18-18	1-90-10-04-70-PDN	G1/8	G1/8	0.018Kg
PDN-L-14-14	1-90-10-04-72-PDN	G1/4	G1/4	0.036Kg
PDN-L-14-18	1-90-10-04-74-PDN	G1/4	G1/8	0.024Kg

90.6 - COUPLINGS

PSS-S Pneumatic Plug In Nipple Quick Connection





ADVANTAGES
- V1 - One-hand operation

REMARK
- Material:
- Nickel-plated brass

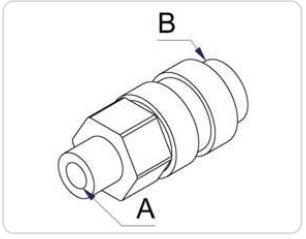
INFO
- Optional:
- - Colour or shape coding for PSK-18 and PSK-14 push-in fittings
- - Plastic material for PSS-18 and PSS-14 push-in fittings

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
PSS-5-4-S	1-90-12-00-31-PSS	PSC-4	PSK5	---	0.006Kg
PSS-18-6-S	1-90-12-00-35-PSS	PSC6	PSK18	---	0.016Kg
PSS-18-8-S	1-90-12-00-37-PSS	PSC8	PSK18	---	0.024Kg
PSS-5-4-S-UEM	1-90-12-00-51-PSS	PSC-4	PSK5	X	0.006Kg

90.6 - COUPLINGS

PSK Pneumatic Quick Release Coupling





REMARK
- Material: brass
- A PDR sealing ring is required

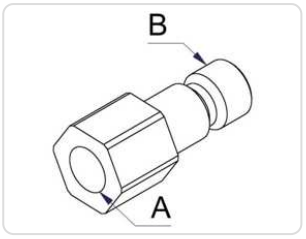
INFO
- Optional:
- - Colour and shape coding for
- quick-release coupling PSK-18 and PSK-14
- - Material plastic for quick-release coupling
- PSK-18 and PSK-14

DESIGNATION	ITEM NO.	A	B	WEIGHT
PSK-5	1-90-12-00-20-PSK	M5	PSS5	0.008Kg
PSK-18	1-90-12-00-22-PSK	G1/8	PSS18	0.027Kg
PSK-14	1-90-12-00-24-PSK	G1/4	PSS14	0.073Kg

90.6 - COUPLINGS

PSS Pneumatic Plug In Nipple





REMARK

- Material:
- Brass
- Shipping unit: PU = 10 pieces
- Price: 1 PU

INFO

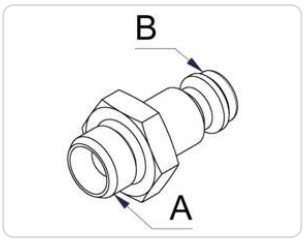
- Optional:
- - Colour and shape coding for
- Quick-release coupling PSK-18 and PSK-14
- - Material plastic for quick-release coupling
- PSS-18 and PSS-14

DESIGNATION	ITEM NO.	A	B	WEIGHT
PSS-5	1-90-12-00-30-PSS	M5	PSK5	0.003Kg
PSS-18	1-90-12-00-33-PSS	G1/8	PSK18	0.014Kg
PSS-14	1-90-12-00-41-PSS	G1/4	PSK14	0.024Kg

90.6 - COUPLINGS

PSS-A Pneumatic Plug In Nipple with thread





REMARK

- Material:
- Brass
- Shipping unit: PU = 10 pieces
- Price: 1 PU

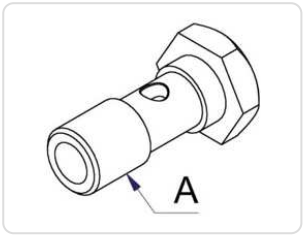
DESIGNATION	ITEM NO.	A	B	WEIGHT
PSS-5-A-5	1-90-12-00-40-PSS	M5	PSK5	0.003Kg
PSS-18-A-18	1-90-12-00-42-PSS	G1/8	PSK18	0.012Kg
PSS-14-A-14	1-90-12-00-44-PSS	G1/4	PSK14	0.023Kg
PSS-18-A-14	1-90-12-00-46-PSS	G1/8	PSK14	0.022Kg

Legend: B = suitable for pneumatic quick connect coupling PSK

HOLLOW SCREW

PHS Pneumatic Hollow bolt





REMARK

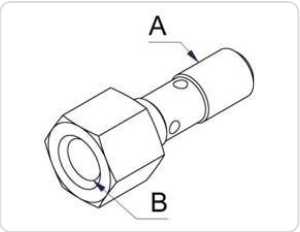
- Material:
- Aluminium
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	WEIGHT
PHS-5	1-90-16-00-10-PHS	M5	0.003Kg
PHS-18	1-90-16-00-12-PHS	G1/8	0.005Kg
PHS-14	1-90-16-00-14-PHS	G1/4	0.008Kg

HOLLOW SCREW

PHS-I Pneumatic hollow bolt





REMARK

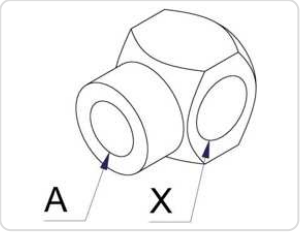
- Material:
- Galvanised steel (PHS-5-I-5) or brass
- (PHS-18-I-18, PHS-14-I-14)
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	A	B	WEIGHT
PHS-5-I-5	1-90-16-00-16-PHS	M5	M5	0.003Kg
PHS-18-I-18	1-90-16-00-17-PHS	G1/8	G1/8	0.018Kg
PHS-14-I-14	1-90-16-00-18-PHS	G1/4	G1/4	0.029Kg

HOLLOW SCREW

PRE Pneumatic ring connection easy





REMARK

- Material:
- Aluminium
- Shipping unit: PU = 10 pieces
- Price: 1 PU

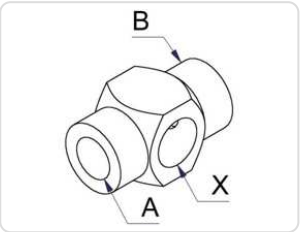
DESIGNATION	ITEM NO.	A	WEIGHT	X
PRE-5-5	1-90-16-00-20-PRE	M5	0.006Kg	PHS-5
PRE-18-18	1-90-16-00-22-PRE	G1/8	0.007Kg	PHS-18
PRE-14-14	1-90-16-00-24-PRE	G1/4	0.014Kg	PHS-14

Legend: X = suitable for banjo bolt PHS and PHS-I

HOLLOW SCREW

PRD Pneumatic ring connection double





REMARK

- Material:
- Aluminium
- Shipping unit: PU = 10 pieces
- Price: 1 PU

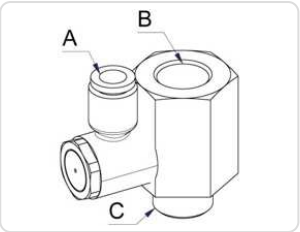
DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PRD-5-5-5	1-90-16-00-30-PRD	M5	M5	0.003Kg	PHS-5
PRD-18-18-18	1-90-16-00-32-PRD	G1/8	G1/8	0.009Kg	PHS-18
PRD-14-14-14	1-90-16-00-34-PRD	G1/4	G1/4	0.02Kg	PHS-14

Legend: X = suitable for banjo bolt PHS and PHS-I

90.8 - MISCELLANEOUS

SSV Vacuum Cup Safety Valve





ADVANTAGES
- V1 - Maintaining the vacuum during emergency shutdown
- V2 - Blow-off pulse

REMARK
- - One safety valve per suction cup
- - Blow-off pressure min. 5 bar
- Material:
- Aluminium

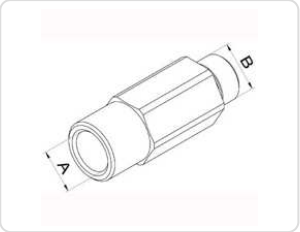
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
SSV-14-14	1-90-14-00-50-SSV	PSC6	G1/4	G1/4	0.037Kg

Legend: A = suitable for pneumatic hose ..

90.8 - MISCELLANEOUS

PST Pneumatic Flow Control Valve





ADVANTAGES
- V1 - with central vacuum, the flow valve closes
- flow valve closes the passage when there is no
- component is under the suction cup

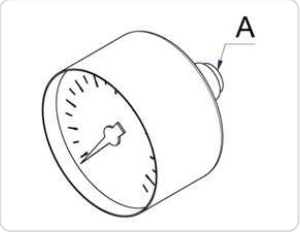
REMARK
- One safety valve per suction pad is required

DESIGNATION	ITEM NO.	A	B	WEIGHT
PST-18-18	1-90-14-00-52-PST	G1/8	G1/8	0.011Kg

90.8 - MISCELLANEOUS

PMD Pneumatic Pressure Gauge - pressure





ADVANTAGES
- V1 - Easy reading of the system pressure

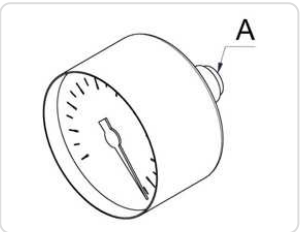
REMARK
- Material:
- - Connection thread: brass
- - Housing:
- Plastic

DESIGNATION	ITEM NO.	A	WEIGHT
PMD-40-18	1-90-15-00-10-PMD	G1/8	0.047Kg

90.8 - MISCELLANEOUS

PMV Pneumatic Pressure Gauge - vacuum





ADVANTAGES
- V1 - Simple reading of the system vacuum
- V2 - Tightness check

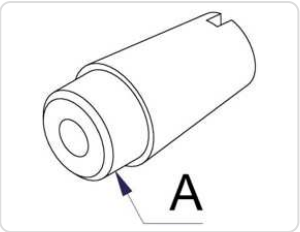
REMARK
- Material:
- - Connection thread: brass
- - Housing:
- Plastic

DESIGNATION	ITEM NO.	A	WEIGHT
PMV-40-18	1-90-15-00-14-PMV	G1/8	0.061Kg

90.8 - MISCELLANEOUS

PSD Pneumatic Exhaust





REMARK

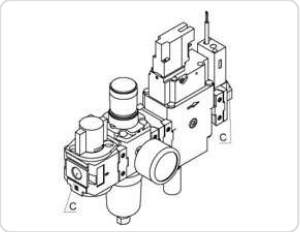
- Material: Sintered bronze

DESIGNATION	ITEM NO.	A	WEIGHT
PSD-5	1-90-30-00-10-PSD	M5	0.005Kg
PSD-18	1-90-30-00-12-PSD	G1/8	0.007Kg
PSD-14	1-90-30-00-14-PSD	G1/4	0.015Kg
PSD-38	1-90-30-00-16-PSD	G3/8	0.03Kg

90.8 - MISCELLANEOUS

DAB Compressed-air conditioning





ADVANTAGES

- V1 - Dirt particles, water and chemical impurities are filtered
- V2 - Pressure control: minimum, maximum pressure, accuracy
- V3 - the pressure can be built up slowly when the system is switched on

INFO

- Maintenance unit consisting of:
- - 3/2-way manual valve HV
- - Delay start valve SVV
- - Pressure switch, end piece DSE

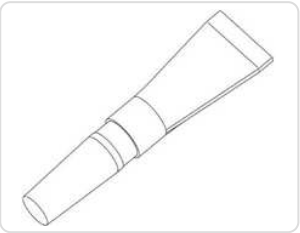
DESIGNATION	ITEM NO.	C
DAB-HV-SVV-DSE	1-90-98-12-00-DAB	G1/4

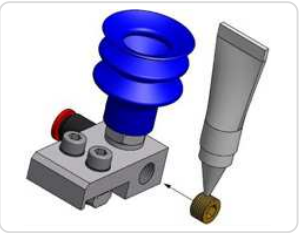
Legend: C = Air connection

80.0 - SPECIAL ELEMENTS

SSM Medium Strength Threadlocker







REMARK

- Clean internal and external threads with brake cleaner before bonding

INFO

- Area of application:
- - if the position of the air connection must be changed
- - for medium-strength threadlocker
- - suitable for threaded connections made of metal

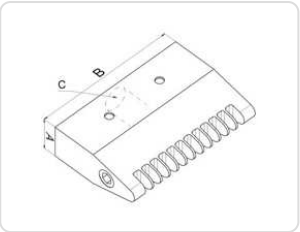
DESIGNATION	ITEM NO.	A
srew securing middle-hard	1-80-44-20-00-SSM	5ml

Legend: A = Filling quantity

90.8 - MISCELLANEOUS

FSD Flat spray nozzles





OPTION

- Other variants available on request

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
FSD-17-72-14	1-90-54-10-00-FSD	17,5	72	G1/4	6	1200	12,5N	11,2N	73dB	6050

90.8 - MISCELLANEOUS

LVH Air Curtain

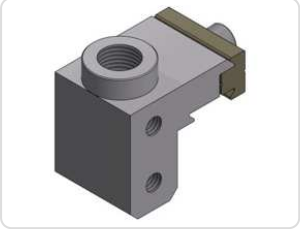


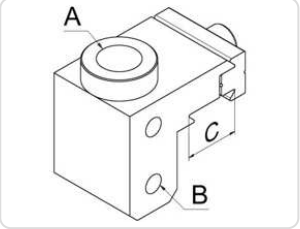


DESIGNATION	ITEM NO.
FSD-DL-178	1-90-54-50-00-LVH

PNEUMATIC DISTRIBUTORS >>

MVB-P-1-4 Air Vacuum Manifold Prism 1-Cycle 4-point





ADVANTAGES

- V1 - simple distribution of compressed air or vacuum
- V2 - special sizes are easy to realise

REMARK

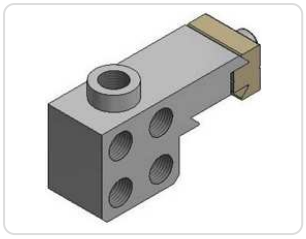
- Example: MVB-P13-1-4-18-5
- MVB - media distributor block
- P13 - suitable for prism profile P13
- 1 - 1 x main connection
- 4 - 4 x outgoing connection
- 18 - G1/8 main connection thread
- 5 - M5 outlet connection thread
- Material: aluminium
- MVB-P13-1-4-5-5 only suitable for PGS-5-4 and PWS-5-4

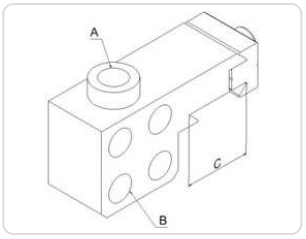
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MVB-P13-1-4-18-5	1-95-12-06-00-MVB	G1/8	M5	P13	0.019Kg	SPP-18
MVB-P13-1-4-18-18	1-95-12-08-00-MVB	G1/8	G1/8	P13	0.028Kg	SPP-18
MVB-P22-1-4-18-18	1-95-12-10-00-MVB	G1/8	G1/8	P22	0.039Kg	MPP-30

Legend: X = suitable for profile

PNEUMATIC DISTRIBUTORS >>

MVB-P-1-8 Air Vacuum Manifold Prism 1-Cycle 8-point





ADVANTAGES

- V1 - simple distribution of compressed air or vacuum
- V2 - special sizes are easy to realise

REMARK

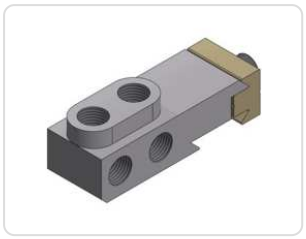
- Example: MVB-P22-1-8-18-18
- MVB - Media distributor block
- P22 - suitable for prism profile P22
- 1 - 1 x main connection
- 8 - 8 x outgoing connection
- 18 - G1/8 main connection thread
- 18 - G1/8 outlet connection thread
- Material: Aluminium

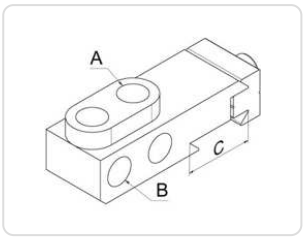
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MVB-P22-1-8-18-18	1-95-12-14-00-MVB	G1/8	G1/8	P22	0.052Kg	MPP-30

Legend: X = suitable for profile

PNEUMATIC DISTRIBUTORS >>

MVB-P-2-2 Air Vacuum Manifold Prism 2-circuit 2-point





ADVANTAGES

- V1 - simple distribution of compressed air or vacuum
- V2 - special sizes are easy to realise

REMARK

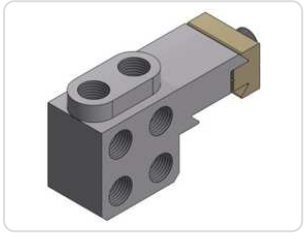
- Example: MVB-P22-2-2-18-18
- MVB - media distributor block
- P22 - suitable for prism profile P22
- 2 - 2 x main connection
- 2 - 2 x outlet connection
- 18 - G1/8 main connection thread
- 18 - G1/8 outlet connection thread
- Material: aluminium

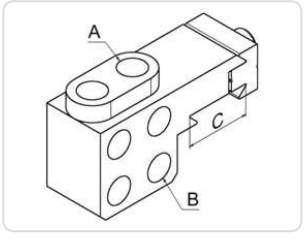
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MVB-P22-2-2-18-18	1-95-12-16-00-MVB	G1/8	G1/8	P22	0.045Kg	MPP-30

Legend: X = suitable for profile

PNEUMATIC DISTRIBUTORS >>

MVB-P-2-4 Air Vacuum Manifold Prism 2-circuit 4-point





ADVANTAGES

- V1 - simple distribution of compressed air or vacuum
- V2 - special sizes are easy to realise

REMARK

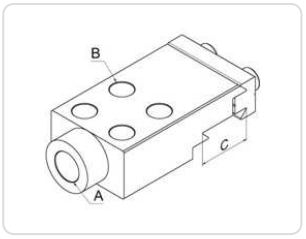
- Example: MVB-P22-2-4-18-18
- MVB - Media distributor block
- P22 - suitable for prism profile P22
- 2 - 2 x main connection
- 4 - 4 x outgoing connection
- 18 - G1/8 main connection thread
- 18 - G1/8 outlet connection thread
- Material: Aluminium

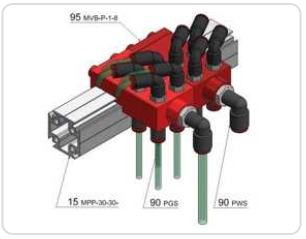
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MVB-P22-2-4-18-18	1-95-12-12-00-MVB	G1/8	G1/8	P22	0.055Kg	MPP-30

Legend: X = suitable for profile

PNEUMATIC DISTRIBUTORS >>

MVB-M-P-1-8 Air Vacuum Manifold Prism 1-circuit 8-point



ADVANTAGES

- V1 - simple integration into the PreciGrip system
- V2 - simple distribution of compressed air or vacuum

REMARK

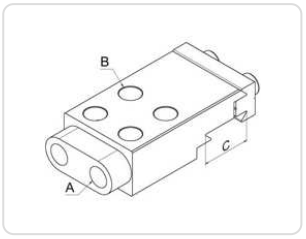
- Example: MVB-M-1-8-P22-14-18
- MVB-M - Media distributor block multi
- P22 - suitable for profile MPP (prism 22)
- 1 - 1 x main connection (1 circuit)
- 8 - 8 x outgoing connection
- 14 - G1/4 main connection thread
- 18 - G1/8 outgoing connection thread

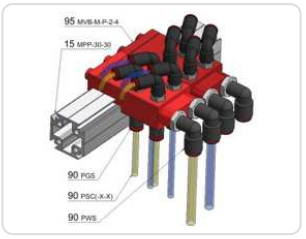
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MVB-M-P22-1-8-14-18	1-95-12-40-00-MVB	G1/4	G1/8	P22	0.049Kg	MPP

Legend: X = suitable for profile

PNEUMATIC DISTRIBUTORS >>

MVB-M-P-2-4 - Air-Vacuum- Manifold Multi 2-circuit 4-point with Prism



ADVANTAGES

- V1 - simple integration into the PreciGrip system
- V2 - simple distribution of compressed air or vacuum

REMARK

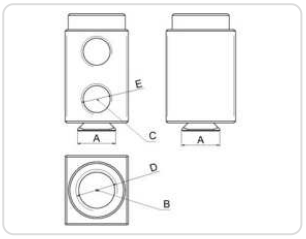
- Example: MVB-M-P22-2-4-18-18
- MVB-M - Medium distributor block multi
- P22 - suitable for MPP profile (Prism 22)
- 2 - 2 x main connection (2 circuits)
- 4 - 4 x outgoing connection per circuit
- 18 - G1/8 main connection thread
- 18 - G1/8 outgoing connection thread

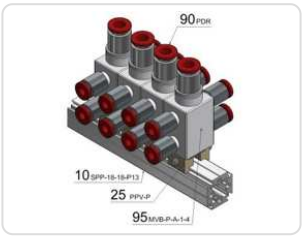
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	X
MVB-M-P22-2-4-18-18	1-95-12-44-00-MVB	G1/8	G1/8	P22	0.057Kg	MPP

Legend: X = suitable for profile

PNEUMATIC DISTRIBUTORS >>

MVB-P-A-1-4 Media distributor block Prisma external 1-circuit 4-way



ADVANTAGES

- V1 - simple distribution of compressed air or vacuum

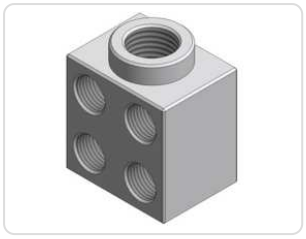
REMARK

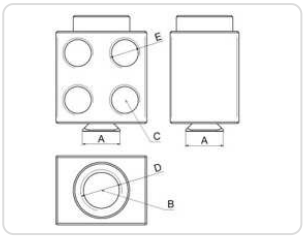
- Example: MVB-P13-A-1-4-18-5
- MVB - Media distributor block
- P13 - suitable for prismatic profile P13
- A - External prism
- 1 - 1 x main connection
- 4 - 4 x outgoing connection
- 18 - G1/8 main connection thread
- 5 - M5 outlet connection thread
- Material: Aluminium

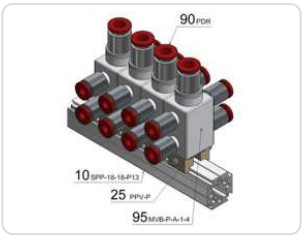
DESIGNATION	ITEM NO.	A	B	C	D	E	O	WEIGHT	X
MVB-P13-A-1-4-18-5	1-95-20-16-00-MVB	P13	1	4	G1/8	M5	PPV-P22-P13-1	0.02Kg	PPV-P13-P13-1
MVB-P13-A-1-4-18-18	1-95-20-18-00-MVB	P13	1	4	G1/8	G1/8	PPV-P22-P13-1	0.02Kg	PPV-P13-P13-1
MVB-P13-A-1-4-14-18	1-95-20-20-00-MVB	P13	1	4	G1/4	G1/8	PPV-P22-P13-1	0.02Kg	PPV-P13-P13-1

PNEUMATIC DISTRIBUTORS >>

MVB-P-A-1-8 Media distributor block Prisma external 1-circuit 8-way







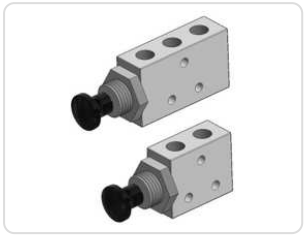
REMARK

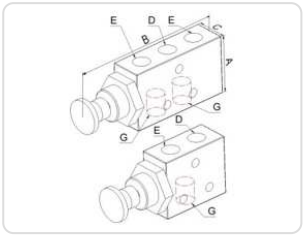
- Example: MVB-P13-A-1-8-14-18
- MVB - Media distributor block
- P13 - suitable for prismatic profile P13
- A - External prism
- 1 - 1 x main connection
- 4 - 8 x outgoing connection
- 14 - G1/4 main connection thread
- 18 - G1/8 outlet connection thread
- Material: Aluminium

DESIGNATION	ITEM NO.	A	B	C	D	E	O	WEIGHT	X
MVB-P13-A-1-8-18-18	1-95-20-28-00-MVB	P13	1	8	G1/8	G1/8	PPV-P22-P13-1	0.03Kg	PPV-P13-P13-1
MVB-P13-A-1-8-14-18	1-95-20-30-00-MVB	P13	1	8	G1/4	G1/8	PPV-P22-P13-1	0.03Kg	PPV-P13-P13-1

96.0 - VALVE TECHNOLOGY

HVL Hand valve





ADVANTAGES

- V1 - The HVL manual valves are used to manually switch compressed air and vacuum on and off

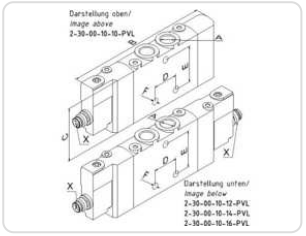
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	SW	WEIGHT
HVL-BS-3-2	1-96-10-10-00-HVL	30	65/70	16	1/8"	1/8"	1	1/8"	1	3/2-Wege	1	0.061Kg
HVL-BS-5-2	1-96-10-12-00-HVL	30	81/86	16	1/8"	1/8"	2	1/8"	2	5/2-Wege	1	0.078Kg

Legend: D = Compressed air connection E = Exhaust air connection F = Number of exhaust air connections G = Working connection H = Number of working connections I = Mode of operation bistable ....-way

96.0 - VALVE TECHNOLOGY

PVL-EV Magnetic valve single valve





ADVANTAGES

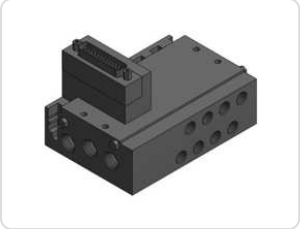
- V1 - The PVL-EV solenoid valves are electrically actuated valves. They utilise the force of electromagnets to open and close valves. They control the flow of compressed air in pneumatic systems and circuits.
- V2 - The PVL-EV solenoid valves are installed and used in our company as universally applicable individual valves.

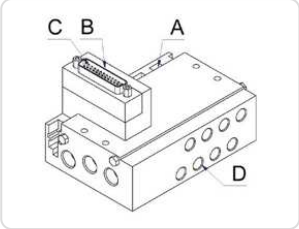
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	SW	X
Magnetventil 5/2 monostabil	2-30-00-10-10-PVL	G1/8	101,5	40,3	17,5	26	4,4	MS	5/2 Wege	1	KAD-M8-4
PVL-BS-5-2-EV	2-30-00-10-12-PVL	G1/8	118	40,3	17,5	26	4,4	BS	5/2 Wege	1	KAD-M8-4
PVL-BS-MG-5-3-EV	2-30-00-10-14-PVL	G1/8	134	40,3	17,5	26	4,4	BS-MG	5/3 Wege	1	KAD-M8-4
PVL-BS-ME-5-3-EV	2-30-00-10-16-PVL	G1/8	134	40,3	17,5	26	4,4	BS-ME	5/3 Wege	1	KAD-M8-4

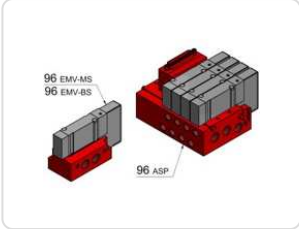
Legend: A = Air connection G = Mode of operation: MS - monostable BS - bistable BS - MG - bistable centre position closed BS - ME - bistable centre position vented H = Number of connections and switching positions X = suitable for cable connector .....

96.0 - VALVE TECHNOLOGY

ASP Connection plate for valves







ADVANTAGES

- V1 - this allows medium-sized cylinders to
- work faster and with reduced cycle time
- V2 - a flow rate of 840l/min can be achieved
- V3 - CE-compliant
- V4 - fulfils the requirements of protection classes
- IP67 and IP40
- V5 - plug connection optionally adjustable from above
- or from the side

REMARK

- with soft-sealing gate valve seal type

INFO

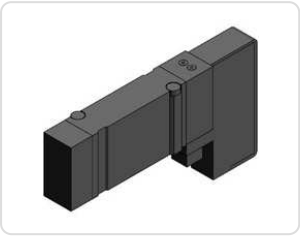
- Links:
- KAD-D-SUB - Cable socket with plug (connecting cable)

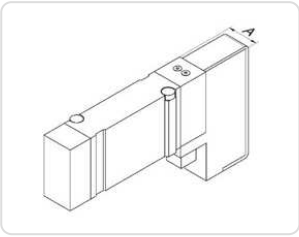
DESIGNATION	ITEM NO.	A	B	C	D
ASP-15-1-M12-4P-14	1-96-02-20-00-ASP	1	M12	4-polig	G1/4
ASP-15-4-D-SUB-25-18	1-96-02-22-00-ASP	4	D-SUB	25-polig	G1/8
ASP-15-6-D-SUB-25-18	1-96-02-24-00-ASP	6	D-SUB	25-polig	G1/8
ASP-15-8-D-SUB-25-18	1-96-02-26-00-ASP	8	D-SUB	25-polig	G1/8
ASP-15-10-D-SUB-25-18	1-96-02-28-00-ASP	10	D-SUB	25-polig	G1/8
ASP-15-12-D-SUB-25-18	1-96-02-30-00-ASP	12	D-SUB	25-polig	G1/8

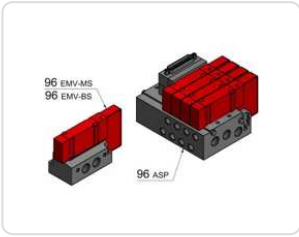
Legend: A = Number of valve slots B = Plug connection C = Number of connector pins D = Pneumatic connection

96.0 - VALVE TECHNOLOGY

BLP Dummy plate







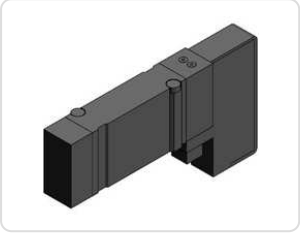
ADVANTAGES

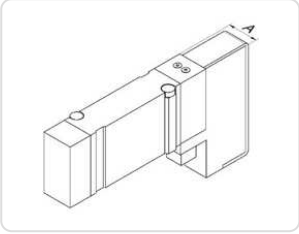
- V1 - simple sealing of unoccupied valve positions on the sub-base ASP

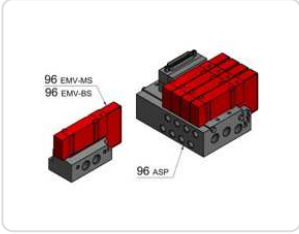
DESIGNATION	ITEM NO.	A
BLP-15-0	1-96-02-50-00-BLP	15

96.0 - VALVE TECHNOLOGY

EMV-BS Electromagnetic valve bistable







ADVANTAGES

- V1 – allows medium-sized cylinders to work faster
- and with reduced cycle time
- V2 – CE-compliant
- V3 – fulfils the requirements of protection classes IP67
- and IP40

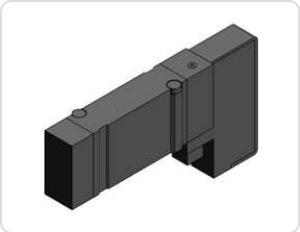
REMARK

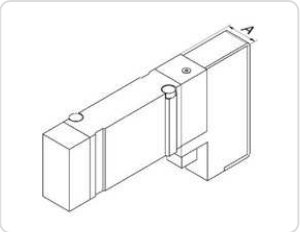
- Function: 5/2-way bistable
- Seal type: soft-sealing gate valve
- Nominal voltage: 24 VDC

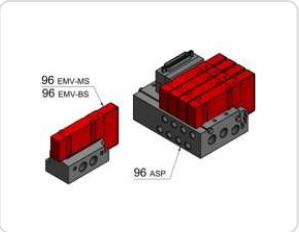
DESIGNATION	ITEM NO.	A
EMV-BS-15-5-2	1-96-00-20-00-EMV	15

96.0 - VALVE TECHNOLOGY

EMV-MS Electromagnetic valve monostable







ADVANTAGES

- V1 - this allows medium-sized cylinders to work faster
- and with reduced cycle time
- V2 - CE-compliant
- V3 - fulfils the requirements of protection classes IP67
- and IP40

REMARK

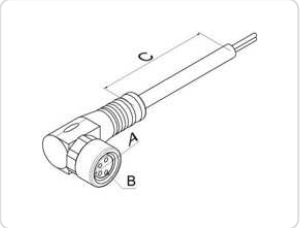
- Mode of operation: 5/2-way monostable
- Seal type: soft-sealing gate valve
- Nominal voltage: 24 VDC

DESIGNATION	ITEM NO.	A
EMV-MS-15-5-2	1-96-00-10-00-EMV	15

96.0 - VALVE TECHNOLOGY

ASL-V Connection Cable for valves





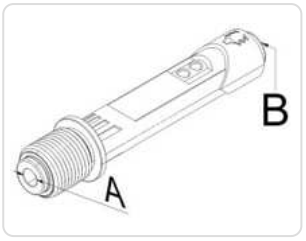
DESIGNATION	ITEM NO.	A	B	C	D	E
ASL-V-M8-4P-2.5-K	9-46-20-10-90-100	M8×1	4-p	2,5m	3,3mm	0,25mm²

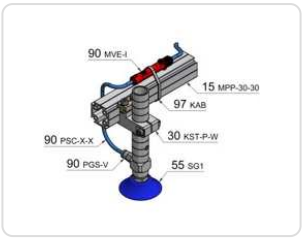
92.0 Vacuum Generators



MVE-I Modular Vacuum Unit Inline







ADVANTAGES

- V1 - low weight
- V2 - Optimised performance
- V3 - quick plug-in connection

REMARK

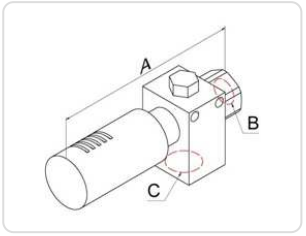
- Nozzle: 0.7mm
- Air consumption: 18.5 l/min
- Suction capacity: 13.7 l/min
- Compressed air 5bar

DESIGNATION	ITEM NO.	A	B	WEIGHT
MVE-I-07	1-90-00-10-36-MVE	PSC4	PSC4	0.034Kg

Legend: A = Compressed air B = Vacuum

MVE-E-1 Modular Vacuum Unit Easy





The modular vacuum generator is a compact, modular vacuum generator designed for use in the PreciGrip gripper system. It is suitable for decentralised vacuum generation directly at the gripper and ensures a reliable supply of vacuum to suction grippers in automated handling processes. Thanks to its simple integration and robust design, it is ideally suited to space-saving and efficient applications.

ADVANTAGES

- V1 - no clogging
- V2 - high mechanical resistance
- V3 - good mounting options
- V4 - quiet operation
- V5 - compact and lightweight
- V6 - direct connection to suction cup

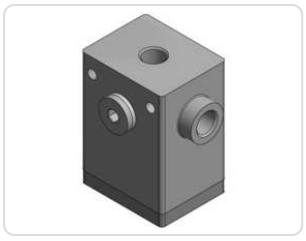
REMARK

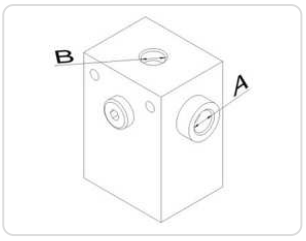
- Nozzle: 1.0mm
- Air consumption: 44 l/min
- Suction capacity: 27 l/min

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
MVE-E-1	1-90-00-10-30-MVE	68,5	G1/8	G1/4	0.038Kg

Legend: A = Silencer B = Compressed air C = Vacuum

MVE-A Modular Vacuum Unit Air Impulse





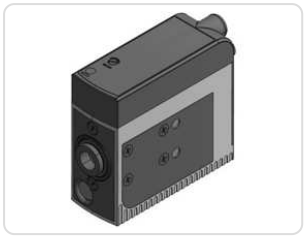
ADVANTAGES

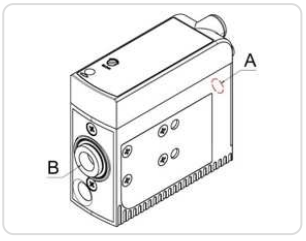
- V1 - low weight
- V2 - Optimised performance
- V3 - Blow-off pulse

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
MVE-A	1-90-00-10-40-MVE	G1/4	G1/4	G1/4	0.255Kg

Legend: A = Compressed air B = Vacuum C = Exhaust air

MVE Modular Vacuum Unit





ADVANTAGES

- V1 - integrated valve (1x vacuum and 1x blow-off)
- V2 - optimum efficiency (integrated
- pressure reducer 3.5 bar)
- V3 - adjustable blow-off volume flow
- V4 - quick connector

REMARK

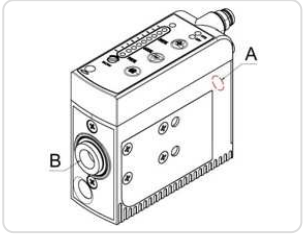
- 1 x M8 4-pin plug
- Nozzle: 1.2mm
- Air consumption: 65 l/min
- Suction capacity: 45 l/min

DESIGNATION	ITEM NO.	A	B	WEIGHT
MVE-90-12-A	1-90-00-10-10-MVE	PSC6	PSC8	0.108Kg

Legend: A = Pressure connection for hose B = Vacuum connection for hose

MVE-A-C Modular Vacuum Unit with Vacuum Switch





ADVANTAGES

- V1 – integrated vacuum switch (2 output signals
- for upper and lower switching points)
- V2 – Analogue signal 0–5 volts for vacuum level
- V3 – 2x integrated valves (vacuum and blow-off)
- V4 – Optimal efficiency (pressure regulator 3.5 bar)
- V5 – Adjustable blow-off flow rate
- V6 – Quick-connect coupling

DOCUMENTS

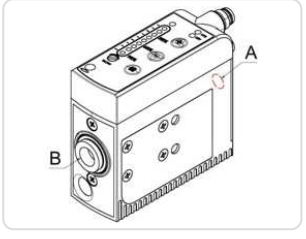
- MVE+MVE-A-C.pdf
- Path

DESIGNATION	ITEM NO.	A	B	WEIGHT
MVE-90-12-A-C	1-90-00-10-20-MVE	PSC6	PSC8	0.118Kg

Legend: A = Pressure connection for hose B = Vacuum connection for hose

MVE-A-C-STW Mod. Vacuum generator, query, switch type selectable





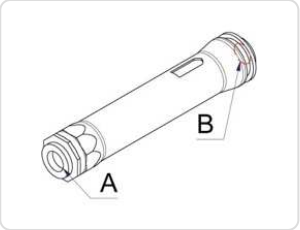
DOCUMENTS

- MVE-A-C-STW_Bedienungsanleitung.pdf
- Path

DESIGNATION	ITEM NO.	A	B	WEIGHT
MVE-90-12-A-C-STW	1-90-00-10-21-MVE	PSC6	G1/4	0.118Kg

MVE-SI-I Modular vacuum generator inline





ADVANTAGES

- V1 - Patented COAX® cartridge technology
- V2 - High suction power in relation to
- energy consumption
- V3 - Low weight, inline design with
- plug-in connection for vacuum and compressed air
- V4 - Quick and easy installation directly
- on the hose

INFO

- Material:
- PA, NBR, SS, CuZn, Al*
- *only MVI-I-SI-6-6
- Material:
- PA, NBR, SS, CuZn, Al*
- *only MVI-I-SI-6-6

OPTION

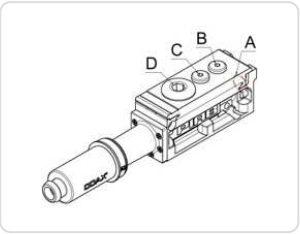
- Various suction capacities and feed pressures
- Silencer

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
MVE-SI-I-6-6-70	1-92-00-08-00-MVE	6	6	-10° + 80°	6	0,12	75	0,28	67-73	70
MVE-SI-I-6-6	1-92-00-10-00-MVE	6	6	-10° + 80°	6	0,44	75	0,69	68-84	98
MVE-SI-I-8-12	1-92-00-12-00-MVE	8	12	-10°C + 80°C	6	1,75	75	3,1	90-98	155

Legend: A = 1 - Air connection B = 2 - Vacuum connection C = Temperature resistance D = optimum feed pressure bar E = Air consumption NL/s F = max. ultimate vacuum -kPa G = max. volume flow Nl/s at 0% H = Noise level dBA

VPU-SI-M-1D Vacuum pump midi 1 injection tube





ADVANTAGES

- V1 - Patented COAX® cartridge technology
- V2 - Contains a flow silencer that is not affected by dust or dirt
- V3 - Significantly lower air consumption compared to conventional pumps of the same size
- V4 - Slim, compact, customisable module design
- V5 - low weight

INFO

- Material:
- PP, PA, NBR, Al, SS
- Material: PP, PA, NBR, Al, SS

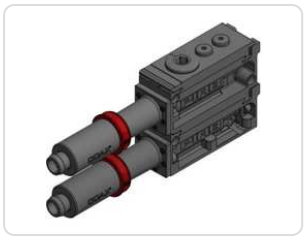
OPTION

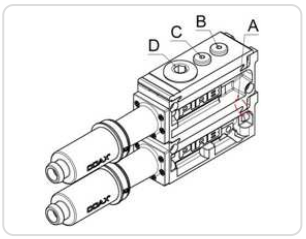
- Other nozzles with different suction power and feed pressure

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J
VPU-SI-10-M	1-92-10-40-00-VPU	Ø10	G1/8	G1/8	G1/2	-10°C + 80°C	6	1,75	75	6	68-70

Legend: A = 1 - Air connection Ø10 B = 1 - Air connection G1/8 C = 1 - Vacuum connection G1/8 D = 1 - Vacuum connection G1/2 E = Temperature resistance F = optimum feed pressure bar G = Air consumption NL/s H = max. ultimate vacuum -kPa I = max. volume flow Nl/s at 0% J = Noise level dBA

VPU-SI-M-2D Vacuum pump midi 2 injection tubes





ADVANTAGES

- V1 - Patented COAX® cartridge technology
- V2 - Contains a flow silencer that is not affected by dust or dirt
- V3 - Significantly lower air consumption compared to conventional pumps of the same size
- V4 - Slim, compact, customisable module design
- V5 - low weight

INFO

- Material:
- PP, PA, NBR, Al, SS
- Material: PP, PA, NBR, Al, SS

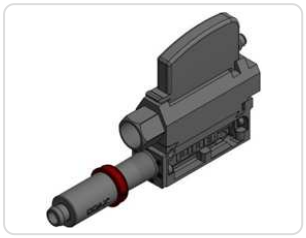
OPTION

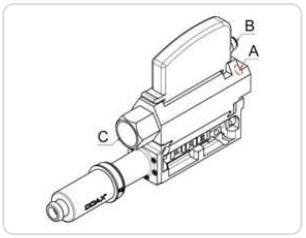
- Other nozzles with different suction power and feed pressure

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I	J
VPU-SI-10-M	1-92-10-60-00-VPU	Ø10	G1/8	G1/8	G1/2	-10°C + 80°C	6	1,75	75	6	68-70

Legend: A = 1 - Air connection Ø10 B = 1 - Air connection G1/8 C = 1 - Vacuum connection G1/8 D = 1 - Vacuum connection G1/2 E = Temperature resistance F = optimum feed pressure bar G = Air consumption NL/s per nozzle unit H = max. ultimate vacuum -kPa I = max. volume flow Nl/s at 0% per nozzle unit J= Noise level dBA (1 nozzle unit)

VPU-SI-M-ES Vacuum pump midi with power save function





ADVANTAGES

- V1 - Patented COAX® cartridge technology
- V2 - Contains a flow silencer that is not affected by dust or dirt
- V3 - Significantly lower air consumption compared to conventional pumps of the same size
- V4 - Slim, compact, customisable module design
- V5 - low weight

REMARK

- incl. 2 electromechanical valves (1st - vacuum on/off 2nd - blow-off)
- incl. 1 throttle valve (strength of the blow-off pressure)
- incl. 2 vacuum switches (1st - e.g. for release signal 2nd - energy saving function)
- incl. digital display for the vacuum level

INFO

- Material:
- PP, PA, NBR, Al, SS
- Material: PP, PA, NBR, Al, SS

OPTION

- Other nozzles with different suction power and feed pressure

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	I
VPU-SI-10-M-ES	1-92-10-50-00-VPU	10	M12×1	G3/4"	-10°C + 80°C	6	1,75	75	6	68-70

Legend: A = 1 - Air connection B = Electrical connection 8-pin C = 2 - Vacuum connection D = temperature resistance E = optimum feed pressure bar F = Air consumption NL/s G = max. ultimate vacuum - kPa H = max. volume flow Nl/s at 0% I = Noise level dBA

97.0 Electronic

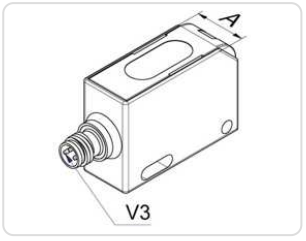


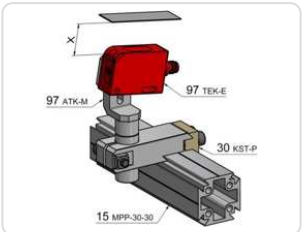
Electronic components that optimally complement your gripper:

SENSOR

TEK-E Part Control easy







ADVANTAGES

- V1 - long range with small design
- V2 - Sensitivity adjustable
- V3 - with 3-pin plug
- V4 - inexpensive variant for simple queries

REMARK

- For shiny objects to be scanned,
- the part inspection must always be arranged parallel to the workpiece

INFO

- Description:
- - Switching distance 0mm - 600mm
- - M8 3-pin plug
- - PNP switching output
- - Ambient temperatures from -25°C to +60°C
- - 2x through hole for M3

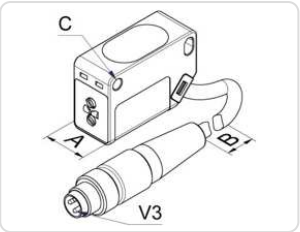
DESIGNATION	ITEM NO.	A	WEIGHT	X
TEK-15-E	1-97-00-04-00-TEK	15	0.019Kg	30

Legend: X = Minimum distance (in mm) when checking workpieces with a shiny surface

SENSOR

TEK-13-K-200 Part Control





ADVANTAGES

- V1 - Insensitive to angles, colour and dirt
- V2 - Automatic power amplification
- V3 - with standardised plug connection

INFO

- Description:
- - Switching distance 30mm - 200mm
- - 200mm cable with M8 3-pin plug
- - PNP switching output
- - Ambient temperatures from -25°C to +70°C
- Note:
- Colour and transparency reflection have an influence on the switching distance.
- In order to reduce the switching distance, it may be necessary to set the sensor at an angle to the part to be scanned.
- Links:
- ATK-M - Multicompatible adapter for parts inspection
- Application examples for connection components

DOCUMENTS

- TEK-13-K-200_Datenblatt.pdf
- Path

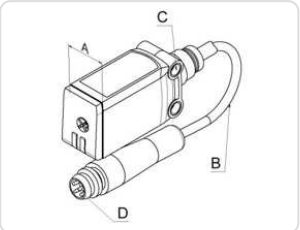
DESIGNATION	ITEM NO.	A	B	C	WEIGHT	D	E	F
TEK-13-K-200	1-97-01-02-00-TEK	12,8	200	3	0.02Kg			
ZYS-3.8-3-500-S	1-97-02-51-00-ZYS	3,8	3	M8	0.012Kg	4	500	100

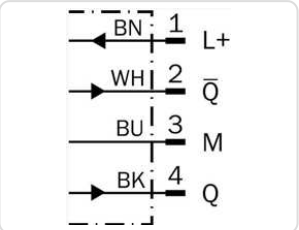
Legend: A = Thickness B = Cable length C = through hole

SENSOR

TEK-12-K-120 Part Control







ADVANTAGES

- V1 - Light emitter version as laser (class 1)
- V2 - Very small light spot Ø 1 mm at 170 mm distance, for detecting small objects
- V3 - with standardised plug connection
- V4 - small design
- V5 - with background suppression

INFO

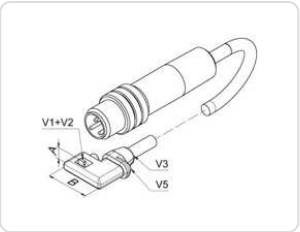
- Description:

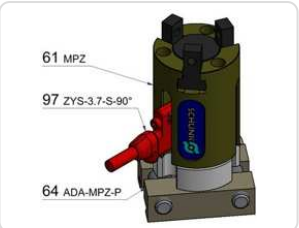
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
TEK-12-K-120	1-97-00-03-00-TEK	12	120	M3	4-p	0.057Kg

SENSOR

ZYS-3.7-S-90 Cylinder sensor with plug 90°







ADVANTAGES

- V1 - suitable for 4mm C-slot
- V2 - quick and easy insertion of the sensor
- from above into the groove
- V3 - 90° rotated cable connection
- V4 - very short housing

INFO

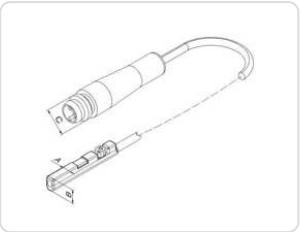
- Description:
- - 500mm cable with M8 3-pin plug
- - PNP switching output
- - 90° mounting & cable outlet
- - LED for signal control
- - Ambient temperatures from -30°C to +80°C
- Links:
- MPZ - Parallel gripper

DESIGNATION	ITEM NO.	A	B	WEIGHT
ZYS-3,7-500-S	1-97-03-10-00-ZYS	3,7	12,2	0.01Kg

SENSOR

ZYS-4 Cylinder sensor with plug





ADVANTAGES

- V1 - suitable for 4mm C groove
- V2 - Clamping via grub screw

INFO

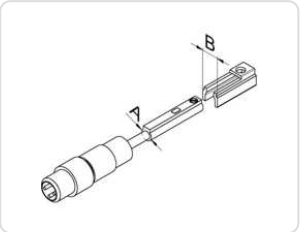
- Description:
- - 300mm cable with M8 3-pin plug
- - PNP switching output
- - LED for signal control
- - Ambient temperatures from -20°C to +70°C
- On the left:
- Application examples connection components

DESIGNATION	ITEM NO.	A	B	C	WEIGHT
ZYS-4-300-S	1-97-02-16-00-ZYS	3	5	M8	0.01Kg

SENSOR

ZYS-4-H6-500-S Cylinder sensor with plug





ADVANTAGES

- V1 – variable suitable for 4mm C-slot and when using the holder suitable for 6mm slot

INFO

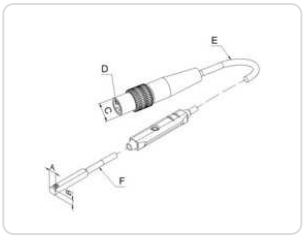
- Description:
- - 500mm 3-wire cable
- - PNP switching output
- - LED for signal control
- - Ambient temperatures from -10°C to +60°C
- Links:
- Application examples of connection components

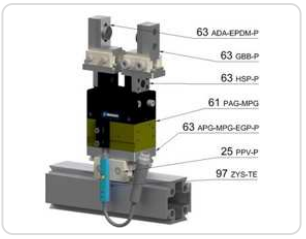
DESIGNATION	ITEM NO.	A	B	WEIGHT
ZYS-4-H6-500-S	1-97-03-50-00-ZYS	4	6	0.011Kg

SENSOR

TEK-13-K-200 Part Control







ADVANTAGES

- V1 - Insensitive to angles, colour and dirt
- V2 - Automatic power amplification
- V3 - with standardised plug connection

INFO

- Description:
- - Switching distance 30mm - 200mm
- - 200mm cable with M8 3-pin plug
- - PNP switching output
- - Ambient temperatures from -25°C to +70°C
- Note:
- Colour and transparency reflection have an influence on the switching distance.
- In order to reduce the switching distance, it may be necessary to set the sensor at an angle to the part to be scanned.
- Links:
- ATK-M - Multicompatible adapter for parts inspection
- Application examples for connection components

DOCUMENTS

- TEK-13-K-200_Datenblatt.pdf
- Path

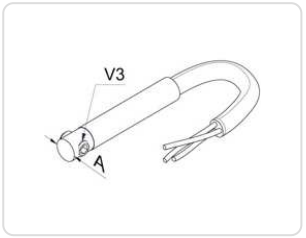
DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT
ZYS-3.8-3-500-S	1-97-02-51-00-ZYS	3,8	3	M8	4	500	100	0.012Kg

Legend: A = Thickness B = Cable length C = through hole

SENSOR

ZYS-3,7-K Cylinder sensor with cable





ADVANTAGES

- V1 - suitable for 4mm C slot
- V2 - Metal housing
- V3 - Clamping via grub screw

INFO

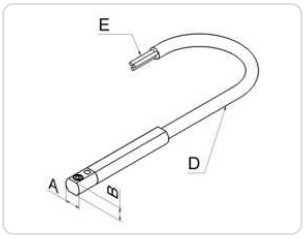
- Description:
- - 2500mm 3 wire cable
- - PNP switching output
- - LED for signal control
- - Ambient temperatures from -20°C to +70°C
- Links:
- KAD - cable socket
- GZA-C - gripper
- GZA-S-C-S - gripping tongs

DESIGNATION	ITEM NO.	A	WEIGHT
ZYS-3,7-2500-K	1-97-02-12-00-ZYS	3,7	0.009Kg

SENSOR

ZYS-3.6-K-KSF Cylinder sensor with cable short-circuit proof





ADVANTAGES

- V1 - Short-circuit proof
- V2 - Reverse polarity protected
- V3 - Stainless steel housing
- V4 - suitable for 4mm C slot
- V5 - Clamping via grub screw

REMARK

- - 2000mm cable with open cable end
- - PNP switching output
- 10-30V DC, 1x PNP 100mA, 500Hz
- - LED for signal control
- - Ambient temperatures from -25°C to +85°C

INFO

- Links:
- KAD - cable socket
- GZA-C - Gripper
- GZA-S-C-S - Gripping tongs

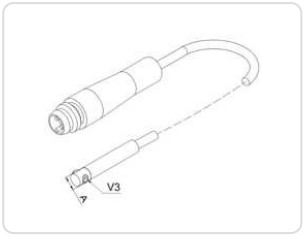
DESIGNATION	ITEM NO.	A	B	D	E	WEIGHT
ZYS-3.6-2000-K-KSF	1-97-02-62-00-ZYS	3,6	2,9	2000	3-P	0.01Kg

Legend: D = Cable length E = X-pole

SENSOR

ZYS-3,7-S Cylinder sensor with plug





ADVANTAGES

- V1 - suitable for 4mm C slot
- V2 - metal housing
- V3 - Clamping via grub screw

INFO

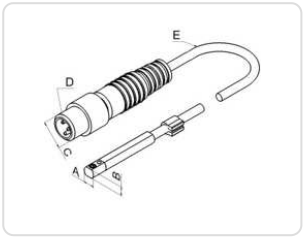
- Description:
- - 300mm cable with M8 3-pin connector
- - PNP switching output
- - LED for signal control
- - Ambient temperatures from -20°C to +70°C
- Links:
- KAD - cable socket
- GZA-C - gripper
- GZA-S-C-S - gripping tongs

DESIGNATION	ITEM NO.	A	WEIGHT
ZYS-3,7-300-S	1-97-02-10-00-ZYS	3,7	0.017Kg

SENSOR

ZYS-3.6-S-KSF Cylinder sensor with plug short-circuit proof





INFO

- Links:
- KAD - cable socket
- GZA-C - Gripper
- GZA-S-C-S - Gripping tongs

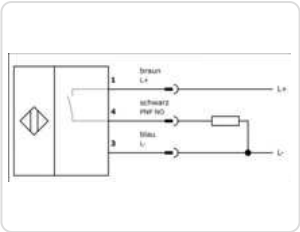
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
ZYS-3.6-300-S-KSF	1-97-02-60-00-ZYS	3,6	2,9	M8	3-P	300	0.01Kg

SENSOR

ZYS-6-4-KSF Cylinder sensor with cable short-circuit proof







INFO

- Links:
- Application examples for connection components

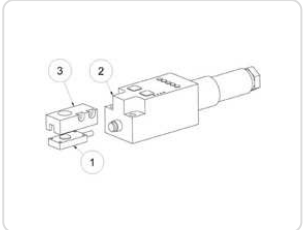
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
ZYS-6-4-500-S-KSF	1-97-02-31-00-ZYS	6	4	M8	3-P	500	0.008Kg

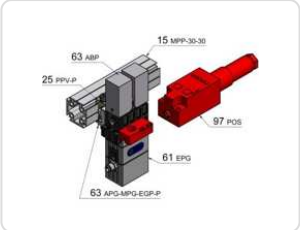
Legend: D = X-pole

SENSOR

POS Position Sensor and Processor Electronics







ADVANTAGES

- V1 - 4 switching points - 5 ranges programmable (teachable)
- V2 - small distance between 2 switching points
- V3 - Calibration to millimetres, temperature and voltage monitoring
- V4 - 5 digital outputs for high efficiency

INFO

- Field of application:
- For detecting the gripper jaw position of
- electric parallel grippers EGP-40 and EGP-50
- Description:
- - 3 wire cable
- - LED for signal control
- Pos.1: Position sensor
- Pos.2: Evaluation electronics
- Pos.3: Mounting kit for electric parallel gripper EGP-40
- and EGP-50

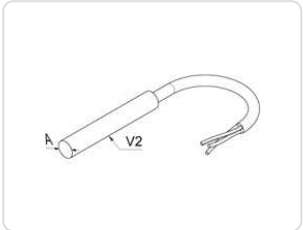
DESIGNATION	ITEM NO.	A
POS-ELG-40	1-97-02-98-00-POS	EGP-40, EGP-50

Legend: A = suitable for electric parallel gripper EGP ....

SENSOR

INS Inductive Proximity Switch - Cable







ADVANTAGES

- V1 - suitable for 4mm terminal hole
- V2 - metal housing

INFO

- Description:
- - Switching distance SN=0.8mm
- - 2000mm 3 wire cable
- - PNP switching output
- - LED for signal control
- - Ambient temperatures from -20°C to +70°C
- Left:
- Application examples connection components

DESIGNATION	ITEM NO.	A	WEIGHT
INS-4-2000-K	1-97-02-20-00-INS	4	0.031Kg

SENSOR

INS-3-S Inductive Proximity Switch - Plug





ADVANTAGES

- V1 - suitable for 3mm clamping hole
- V2 - metal housing

INFO

- Description:
- - Switching distance SN=0.9mm
- - 200mm cable with M8 3-pin plug
- - PNP switching output
- - LED for signal control
- - Ambient temperatures from -25°C to +70°C
- Links:
- Application examples for connection components

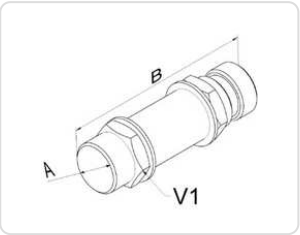
DESIGNATION	ITEM NO.	A	B	WEIGHT
INS-3-S-M8-PNP	1-97-02-02-00-INS	3	200	0.08Kg

Legend: B = cable length

SENSOR

INS-S Proximity Switch





ADVANTAGES

- V1 - External thread (bulkhead fitting)
- V2 - Metal housing

INFO

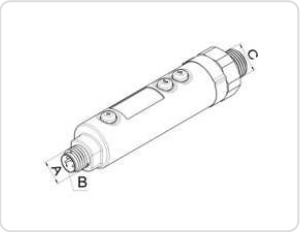
- Description:
- - Connection: plug, M8 / M12, 3-pin
- - for KAD-M8-3 or KAD-M12-3 connector
- - LED for signal control
- On the left:
- Application examples for connection components

DESIGNATION	ITEM NO.	A	B	WEIGHT
INS-M8-S	1-97-04-20-00-INS	M8×1	32	0.01Kg
INS-M12-S	1-97-04-24-00-INS	M12×1	45	0.023Kg

SENSOR

DRS-M8-4P-18 Pressure sensor



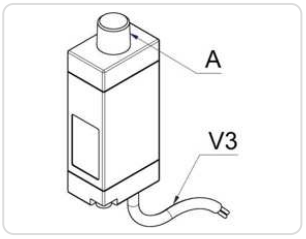


DESIGNATION	ITEM NO.	A	B	C	WEIGHT
DRS-M8-4P-18	1-97-06-10-00-DRS	M8	4-p	G1/8	0.013Kg

SENSOR

DAS Pressure Switch





ADVANTAGES

- V1 - Mechanical pressure switch
- V2 - simple technology based on the piezo principle
- V3 - with cable
- V4 - Simple adjustment via adjusting screw

INFO

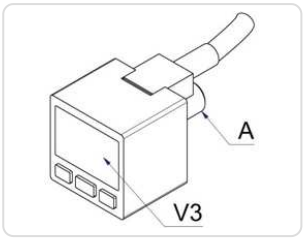
- Description:
- Nominal pressure range: 0 to 6 bar
- Power supply: 24 VDC, 50mA
- Switching output: Reed switch
- Connection: open cable end, 3m cable, 2-wire
- Ambient temperatures: -5 to +60°C

DESIGNATION	ITEM NO.	A	WEIGHT
DAS-18	1-97-04-14-00-DAS	G1/8	0.074Kg

SENSOR

VAS Vacuum Switch





ADVANTAGES

- V1 - Digital precision vacuum switch
- V2 - PNP standard (NPN possible)
- V3 - 3-colour display (shows switching status
- visually on)

INFO

- Description:
- Nominal pressure range: 0 to -1.01 bar
- Power supply: 12-24 VDC
- Switching output: 2x PNP
- Connection: open cable end, 2m cable, 5-core
- Pluggable: on the housing
- Protection class: IP40

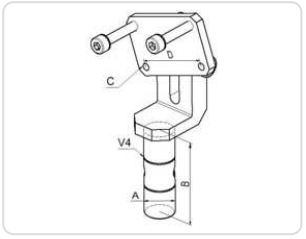
DESIGNATION	ITEM NO.	A	N	WEIGHT
VAS-8	1-97-04-10-00-VAS	G1/8	5	0.08Kg

Legend: N = ... pole - pluggable on the housing

SENSOR HOLDER

ATK-M Adapter for Part Control multicompatible





ADVANTAGES

- V1 - suitable for parts inspection TEK-13-K-200 and TEK-E
- V2 - Shock protection
- V3 - can be integrated into the AGS system
- V4 - Marking grooves every 10mm on shaft for easy adjustment
- V5 - maximum adjustment options for the sensors are available

REMARK

- Material: aluminium

INFO

- Accessory parts:
- Link > TEK-13-K-200 - Parts inspection

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ATK-13-10-30	1-97-01-10-00-ATK	10	30	M2,5	25,4	0.015Kg
ATK-M-10-60	1-97-01-11-00-ATK	10	60	M2,5	25,4	0.018Kg
ATK-M-10-90	1-97-01-12-00-ATK	10	90	M2,5	25,4	0.021Kg
ATK-M-14-40	1-97-01-15-00-ATK	14	40	M2,5	25,4	0.028Kg
ATK-M-14-80	1-97-01-16-00-ATK	14	80	M2,5	25,4	0.037Kg

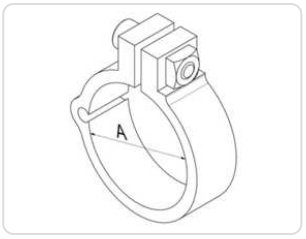
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
ATK-M-14-120	1-97-01-17-00-ATK	14	120	M2,5	25,4	0.044Kg

Legend: C = through thread

SENSOR HOLDER

HLT Holder for Proximity Switch





ADVANTAGES
- V1 - simple mounting of the cylinder sensor ZYS

REMARK
- HLT-ZYS-5-5 = variable clamping Ø
- HLT-18 = for standard cylinder Ø18

INFO
- Accessories:
- Link > 65 gripper fingers

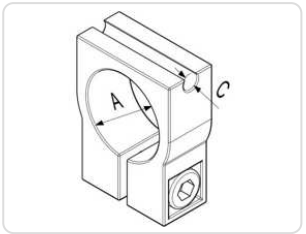
DESIGNATION	ITEM NO.	A	C	D	WEIGHT
HLT-ZYS-5-5 Holder	1-97-02-32-00-HLT	8-25mm	ZYS-5-5	-	0.008Kg
HLT-14	1-97-02-38-00-HLT	14	ZYS-3,7	GFI-14	0.01Kg
HLT-18	1-97-02-39-00-HLT	18	ZYS-3,7	-	0.006Kg
HLT-20	1-97-02-40-00-HLT	20	ZYS-3,7	GFI-20	0.006Kg
HLT-30	1-97-02-42-00-HLT	30	ZYS-3,7	GFI-30	0.009Kg

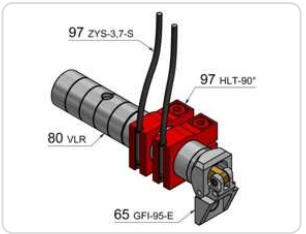
Legend: C= suitable for cylinder sensor D - suitable for gripper finger GFI-...-E

SENSOR HOLDER

HLT-90 Holder for Proximity Switch 90°







ADVANTAGES
- V1 - simple 90° attachment of the ZYS cylinder sensor
- V2 - Holder HLT-90°, mounted on gripper finger GFI, enable
- Querying two positions using ZYS-3.7 sensors (2x)
- or ZYS-TE (1x)

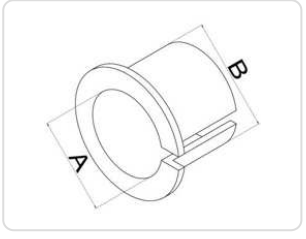
DESIGNATION	ITEM NO.	A	B	C	D	E	F	WEIGHT
HLT-14-90°	1-97-03-38-00-HLT	14	90°	ZYS-3.7	ZVE-14	-	ZYS-TE-3.8-3-500-S	0.004Kg
HLT-20-90°	1-97-03-40-00-HLT	20	90°	ZYS-3.7	ZVE-20	GFI-20	ZYS-TE-3.8-3-500-S	0.007Kg
HLT-30-90°	1-97-03-42-00-HLT	30	90°	ZYS-3.7	ZVE-30	GFI-30	ZYS-TE-3.8-3-500-S	0.007Kg

Legend: B = Hole for sensor X° rotated to hole for operating element C = suitable for cylinder sensor ZYS-... D = suitable for centring unit ZVE-... E = suitable for gripping finger GFI-...-E F = suitable for teachable sensor ZYS-TE ....

SENSOR HOLDER

AIN receptacle for INS-S







DESIGNATION	ITEM NO.	A	B	C	D
AIN-M8-10	1-97-60-04-00-AIN	8	10	INS-M8-S	Ø10

DESIGNATION	ITEM NO.	A	B	C	D
AIN-M8-10	1-97-60-08-00-AIN	12	14	INS-M12-S	Ø14

PLUG / CABLE

KAD Cable socket





INFO

- Description:
- - PUR cable
- - 1x cable end open
- - Available in M8 3-pin / M8 4-pin / M12 3-pin M12 4-pin.
- - Available with different cable lengths
- - Suitable for drag chains
- - Torsional stress +/- 180°/m
- - Number of bending cycles 10 million
- Links:
- Application examples for connection components

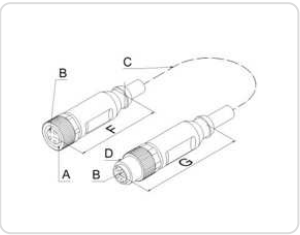
DESIGNATION	ITEM NO.	J	K	L	M	N	WEIGHT
KAD-M8-3-1,5	1-97-00-08-00-KAD	M8×1	0,25mm²	4,1mm ±5%	3	1,5	0.041Kg
KAD-M8-3-3,0	1-97-00-09-00-KAD	M8×1	0,25mm²	4,1mm ±5%	3	3	0.076Kg
KAD-M8-3-5,0	1-97-00-10-00-KAD	M8×1	0,25mm²	4,1mm ±5%	3	5	0.111Kg
KAD-M8-4-1,5	1-97-00-20-00-KAD	M8×1	0,25mm²	4,5mm ±5%	4	1,5	0.053Kg
KAD-M8-4-3,0	1-97-00-21-00-KAD	M8×1	0,25mm²	4,5mm ±5%	4	3	0.101Kg
KAD-M8-4-5,0	1-97-00-22-00-KAD	M8×1	0,25mm²	4,5mm ±5%	4	5	0.162Kg
KAD-M12-3-1,5	1-97-00-24-00-KAD	M12×1	0,34mm²	4,3mm ±5%	3	1,5	0.057Kg
KAD-M12-3-3,0	1-97-00-26-00-KAD	M12×1	0,34mm²	4,3mm ±5%	3	3	0.102Kg
KAD-M12-3-5,0	1-97-00-28-00-KAD	M12×1	0,34mm²	4,3mm ±5%	3	5	0.163Kg
KAD-M12-4-2.0	1-97-00-29-00-KAD	M12×1	0,34mm²	4,5mm ±5%	4	2	0.193Kg
KAD-M12-3-5,0	1-97-00-30-00-KAD	M12×1	0,34mm²	4,5mm ±5%	4	5	0.193Kg
KAD-M12-3-5,0	1-97-00-39-00-KAD	M12×1	0,34mm²	4,5mm ±5%	5	5	0.211Kg

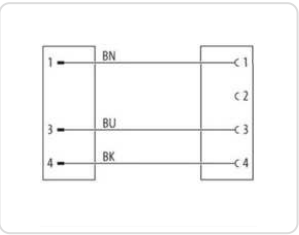
Legend: J = screw thread K = wire cross-section L = cable Ø M = X pole N = cable length

PLUG / CABLE

KAV Cable connection







INFO

- Description:
- - PUR cable
- - 1x connector side straight
- - 1x socket side straight
- - Available in M8 3-pin and M8 4-pin.
- - Available in different cable lengths
- - Suitable for drag chains
- - Torsional stress +/- 180°/m
- - Number of bending cycles 10 million
- Links:
- Application examples for connection components

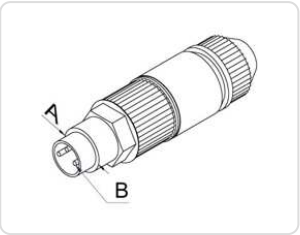
DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT
KAV-M8-3P-0,2-M8	1-97-06-10-00-KAV	M8×1	3-polig	0,2m	M8×1	0,25mm²	32	39	0.02Kg
KAV-M8-3P-0,3-M8	1-97-06-15-00-KAV	M8×1	3-polig	0,3m	M8×1	0,25mm²	32	39	0.02Kg
KAV-M8-3P-0,4-M8	1-97-06-20-00-KAV	M8×1	3-polig	0,4m	M8×1	0,25mm²	32	39	0.016Kg
KAV-M8-3P-0,5-M8	1-97-06-25-00-KAV	M8×1	3-polig	0,5m	M8×1	0,25mm²	32	39	0.22Kg
KAV-M8-3P-0,6-M8	1-97-06-30-00-KAV	M8×1	3-polig	0,6m	M8×1	0,25mm²	32	39	0.02Kg
KAV-M8-3P-0,7-M8	1-97-06-35-00-KAV	M8×1	3-polig	0,7m	M8×1	0,25mm²	32	39	0.016Kg
KAV-M8-3P-0,8-M8	1-97-06-40-00-KAV	M8×1	3-polig	0,8m	M8×1	0,25mm²	32	39	0.03Kg

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	WEIGHT
KAV-M8-3P-1,0-M8	1-97-06-45-00-KAV	M8×1	3-polig	1,0m	M8×1	0,25mm²	32	39	0.016Kg
KAV-M8-4P-0,3-M8	1-97-06-60-00-KAV	M8×1	4-polig	0,3m	M8×1	0,25mm²	32	39	0.02Kg
KAV-M8-4P-0,5-M8	1-97-06-65-00-KAV	M8×1	4-polig	0,5m	M8×1	0,25mm²	32	39	0.02Kg
KAV-M8-4P-0,7-M8	1-97-06-70-00-KAV	M8×1	4-polig	0,7m	M8×1	0,25mm²	32	39	0.04Kg
KAV-M8-4P-0,7-M8	1-97-06-75-00-KAV	M8×1	4-polig	1,0m	M8×1	0,25mm²	32	39	0.04Kg

PLUG / CABLE

EST-3P Plug Connection 3 pin male





ADVANTAGES

- V1 - You determine the cable length of the KAD cable socket yourself
- V2 - optimal routing of the cable
- V3 - simple assembly
- V4 - the wires do not need to be soldered

REMARK

- M8 - 3 pole pin

INFO

- Links:
- EVE - Electrical distributor
- UVE - DUO distributor
- DVE - AND distributor
- Application examples for connection components

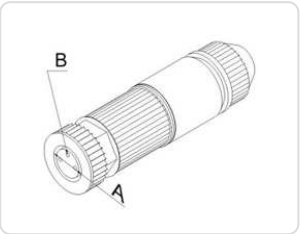
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
EST-M8-3P-0.08-0,25mm²	1-97-00-30-00-EST	M8	3	0.08-0,25mm²	0.009Kg
EST-M8-3P-0.25-0,5mm²	1-97-00-31-00-EST	M8	3	0.25-0,5mm²	

Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

EST-3D Plug Connection 3 pin female





ADVANTAGES

- V1 - You determine the cable length of the KAD cable socket yourself
- V2 - optimal routing of the cable
- V3 - simple assembly
- V4 - the wires do not need to be soldered

REMARK

- M8 - 3 pole socket

INFO

- Links:
- Application examples for connection components

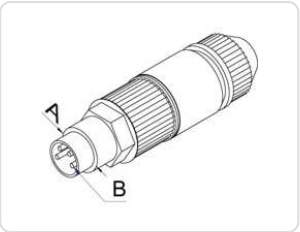
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
EST-M8-3D-0.08-0,25mm²	1-97-00-34-00-EST	M8	3	0.08-0,25mm²	0.009Kg
EST-M8-3D-0,25-0,5mm²	1-97-00-35-00-EST	M8	3	0,25-0,5mm²	

Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

EST-4P Plug Connection 4 pin male





ADVANTAGES
- V1 - You determine the cable length of the KAD cable socket yourself
- V2 - optimal routing of the cable
- V3 - simple assembly
- V4 - the wires do not need to be soldered

REMARK
- - Available in M8 and M12

INFO
- Links:
- Application examples for connection components

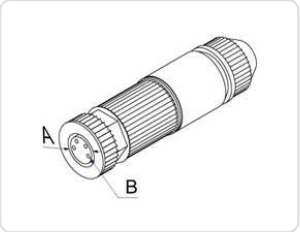
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
EST-M8-4P-0.08-0,25mm²	1-97-00-32-00-EST	M8	4	0.08-0,25mm²	0.01Kg
EST-M8-4P-0,25-0,5mm²	1-97-00-33-00-EST	M8	4	0,25-0,5mm²	
EST-M12-4P-0,25-0,75mm²	1-97-00-66-00-EST	M12	4	0,25-0,75mm²	0.02Kg

Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

EST-4D Plug Connection 4 pin female





ADVANTAGES
- V1 - You determine the cable length of the KAD cable socket yourself
- V2 - optimal laying of the cable
- V3 - simple assembly
- V4 - the wires do not need to be soldered
- Table:

REMARK
- M8 - 4 pole socket

INFO
- Links:
- Application examples for connection components

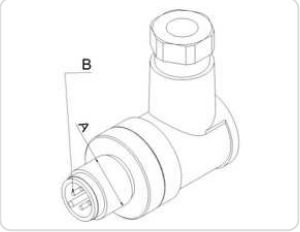
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
EST-M8-4D-0.08-0,25mm²	1-97-00-36-00-EST	M8	4	0.08-0,25mm²	0.01Kg
EST-M8-4D-0,25-0,5mm²	1-97-00-37-00-EST	M8	4	0,25-0,5mm²	

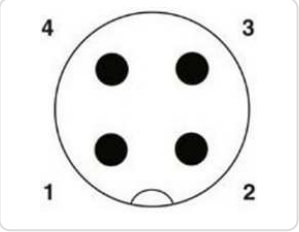
Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

EST-4P-W Plug Connection 4 pin male - angle







ADVANTAGES
- V1 - You determine the cable length of the KAD cable socket yourself
- V2 - optimal laying of the cable
- V3 - simple assembly
- V4 - the wires do not need to be soldered

REMARK
- M12 - 4-pin pin

INFO
- Links:
- Application examples for connection components

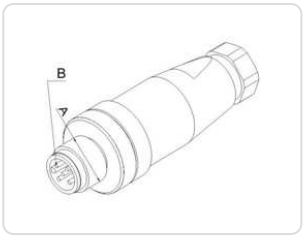
DESIGNATION	ITEM NO.	A	B	C
EST-M12-4P-0,25-0,75mm²-W	1-97-05-10-00-EST	M12	4	0,25-0,75mm²

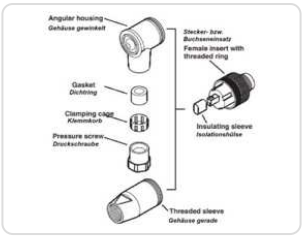
Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

EST-5P Plug Connection 5 pin male







ADVANTAGES

- V1 - You determine the cable length of the KAD cable socket yourself
- V2 - optimal routing of the cable
- V3 - simple assembly
- V4 - the wires do not need to be soldered

REMARK

- M12 - 5-pin pin

INFO

- Links:
- Application examples for connection components

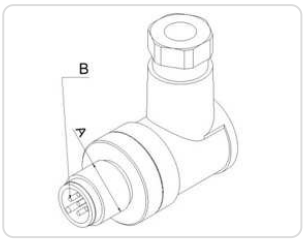
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
EST-M12-5P- 0.25-0.75mm²	1-97-05-04-00-EST	M12	5	0,25-0,75mm²	0.023Kg

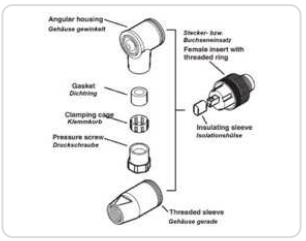
Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

EST-5P-W Plug Connection 5 pin male - angle







REMARK

- M12- 5 pole pin

INFO

- Links:
- Application examples for connection components

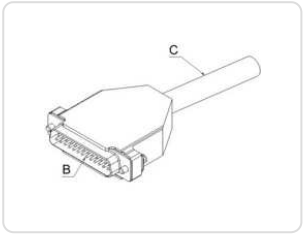
DESIGNATION	ITEM NO.	A	B	C
EST-M12-5P-0,25-0,75mm²-W	1-97-05-12-00-EST	M12	5	0,25-0,75mm²

Legend: B = xx -pole C = Connection cross-section min.-max.

PLUG / CABLE

KAS-D-SUB Cable plug D-SUB





ADVANTAGES

- V1 - For the gripper connection to the handling portal, e.g. for Engel systems.

REMARK

- - D-SUB male connector 25pin 2-row
- - with 3m cable for dynamic movement, open end
- - Cable Lapp Unitronic FD-P plus 25×0.25 outer diameter 10.4mm
- - Temperature -5°C to 80°C
- - Connector fully assigned according to DIN47100

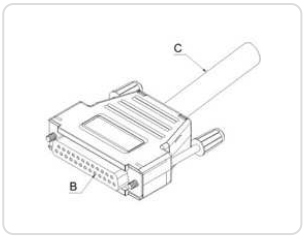
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
KAS-D-SUB-25-3	1-97-00-80-00-KAS	D-SUB	25-polig	3m	0.472Kg

Legend: A = Cable connector type B = number of cores C = Cable length in metres

PLUG / CABLE

KAD-D-SUB Cable socket D-SUB





ADVANTAGES

- V1 - simple power supply for the ASP valve sub-base

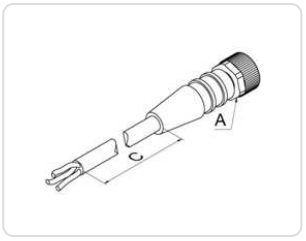
DESIGNATION	ITEM NO.	A	B	C
KAD-D-SUB-25-5	1-97-00-70-00-KAD	D-SUB	25-polig	5m

Legend: A = Cable connector type B = Number of cores C = Cable length in metres

PLUG / CABLE

VPU-KAB Plug connector





REMARK

- - PUR cable
- - 1x cable end open

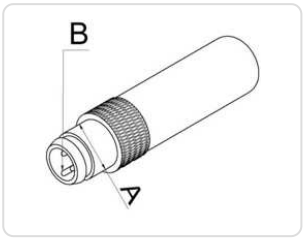
DESIGNATION	ITEM NO.	A	B	C
VPU-KAB-M12-8P-2000	1-92-10-20-02-VPU	M12	8	2m

Legend: A = Threaded connection B = X pole C = Cable length

PLUG / CABLE

BST Jumper Plug





REMARK

- M8 - 3 pole pin

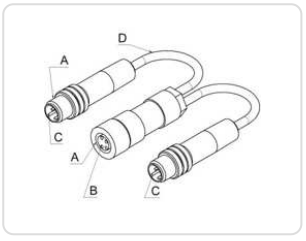
DESIGNATION	ITEM NO.	A	B	WEIGHT
BST-M8-3P-1/4GB	1-97-05-50-00-BST	M8	3-p	0.01Kg

Legend: B = xx -pole

PLUG / CABLE

SVE Sensor distributor







ADVANTAGES

- V1 - Signal splitting of 4-pole sensors

INFO

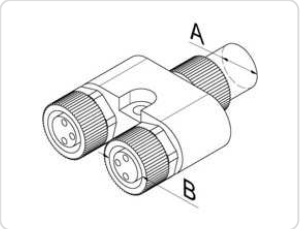
- Links:
- ZYS-TE - Cylinder sensor - Teachable
- Application examples

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
SVE-M8-4P-3P-3P-37,5	1-97-80-80-00-SVE	M8×1	4-p	3-p	37,5	0.02Kg
SVE-M8-4P-3P-3P-200	1-97-80-81-00-SVE	M8×1	4-p	3-p	200	0.03Kg

DISTRIBUTOR

DVE DUO Terminal





ADVANTAGES

- V1 - less cabling effort (one line saved)

REMARK

- - For collecting two signals in one 4-pin slot
- - Available in M8 and M12 (2×3-pin socket & 1×4-pin pins)

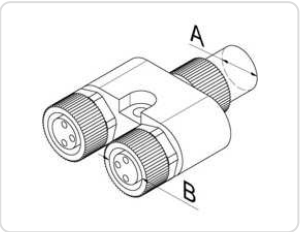
DESIGNATION	ITEM NO.	A	B	WEIGHT
DVE-M8-4P-3P-3P	1-97-80-60-00-DVE	M8	M8	0.014Kg
DVE-M12-4P-3P-3P	1-97-80-64-00-DVE	M12	M8	0.014Kg

Legend: A = 4-pin plug B = 3-pin socket (2x)

DISTRIBUTOR

UVE AND Terminal





ADVANTAGES

- V1 - Saving logic distributor

REMARK

- - Series connection of the sensors

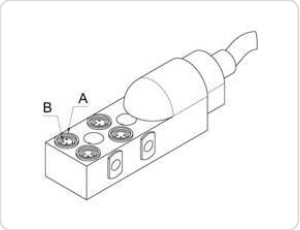
DESIGNATION	ITEM NO.	A	B	WEIGHT
UVE-M8-3P-3P-3P	1-97-80-50-00-UVE	M8	M8	0.014Kg

Legend: A = 3-pin connector B = 3-pin socket (2x)

DISTRIBUTOR

EVE Electric Terminal





INFO

- Description:
- - 5-metre PUR cable, open end
- - available for M8 3-pin or M8 4-pin
- - Suitable for use with drag chains
- - Number of bending cycles: 5 million
- Links:
- EST-3P – 3-pin electrical plug<\/a>
- EST-4P – 4-pole electrical plug
- Application examples for connection components

DOCUMENTS

- Datenblatt_EVE-M8-4-3P.pdf
- Path
- Datenblatt_EVE-M8-4P.pdf
- Path
- Datenblatt_EVE-M8-8-3P.pdf
- Path

DESIGNATION	ITEM NO.	A	B	WEIGHT
EVE-M8-4-3P	1-97-80-10-00-EVE	4	3	0.354Kg

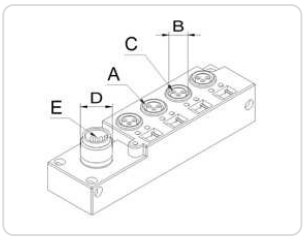
DESIGNATION	ITEM NO.	A	B	WEIGHT
EVE-M8-8-3P	1-97-80-14-00-EVE	8	3	0.472Kg
EVE-M8-4-4P	1-97-80-20-00-EVE	4	4	0.354Kg
EVE-M8-8-4P	1-97-80-24-00-EVE	8	4	0.472Kg

Legend: A = Number of slots B = Number of pins per slot

DISTRIBUTOR

LOV Logic distributor AND/OR







ADVANTAGES

- V1 - one sum signal
- V2 - AND/OR query possible
- V3 - small and lightweight design
- V4 - simple assembly

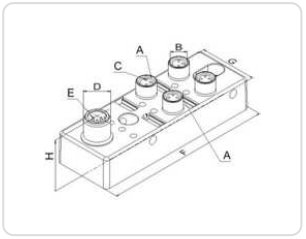
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
LOV-UO-4-M8-P3	1-97-84-04-00-LOV	4	M8	3	M12	4	0.058Kg
LOV-UO-8-M8-P3	1-97-84-08-00-LOV	8	M8	3	M12	4	0.092Kg

Legend: A = Number of slots (inputs) B = Thread size plug socket C = Number of PINs per slot D = Thread size connector (output) E = Number of PINs (output)

DISTRIBUTOR

LOV-U Logic distributor AND







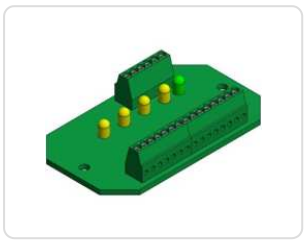
REMARK

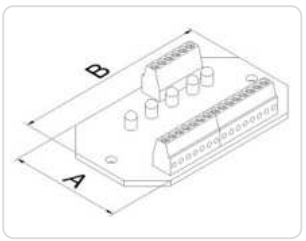
- Logic: AND
- Operating voltage (DC): 10 - 30V
- Display: LED display
- Protection class: (IP) IP67
- Ambient temperature: -30°C to +85°C
- Material of the housing: plastic

DESIGNATION	ITEM NO.	A	B	C	D	E	F	G	H	WEIGHT
LOV-U-2×2-M8-3P	1-97-84-30-00-LOV	2×2	M8	3	M12	5	88,2	30,6	27,3	
LOV-U-2×4-M8-3P	1-97-84-34-00-LOV	2×4	M8	3	M12	5	129,7	30,6	27,3	0.058Kg
LOV-U-2×5-M8-3P	1-97-84-38-00-LOV	2×5	M8	3	M12	5	149,7	30,6	27,3	

TERMINAL BOX

REK Terminal Blocks





ADVANTAGES

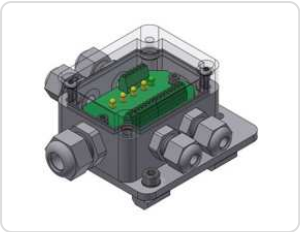
- V1 - For series or individual connection
- V2 - Status LED per input
- V3 - Status LED power supply

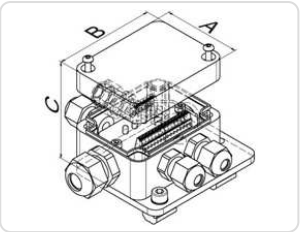
DESIGNATION	ITEM NO.	A	B	N	WEIGHT
REK-4-65-50	1-97-20-40-02-REK	32	55	4	0.045Kg

Legend: N = Number of inputs

TERMINAL BOX

RKG Terminal Blocks with Enclosure





ADVANTAGES

- V1 - Very compact terminal box
- V2 - For series or individual connection
- V3 - Status LED per input
- V4 - Power supply status LED

REMARK

incl. mounting plate and mounting material for mounting on a profile

INFO

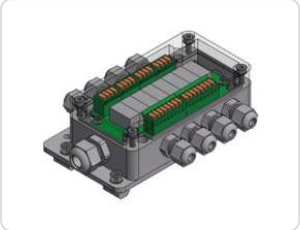
- Material:
- Plastic housing with transparent lid
- Mounting plate
- made from aluminium

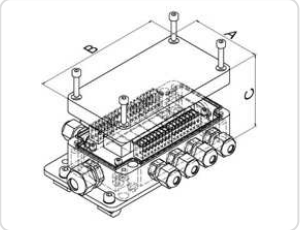
DESIGNATION	ITEM NO.	A	B	C	N	WEIGHT
RKG-4-65-50	1-97-20-40-00-RKG	50	66	40	4	0.143Kg

Legend: N = Number of inputs

TERMINAL BOX

RPG Relay Board with Enclosure





ADVANTAGES

- V1 - Series connection of initiators
- V2 - Relay on board
- V3 - Status LED all inputs off
- V4 - Status LED all inputs On
- V5 - Transparent cover

REMARK

incl. mounting plate and mounting material for mounting on a profile

INFO

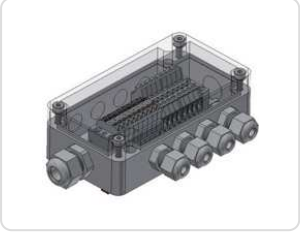
- Material:
- Plastic housing with transparent lid
- Aluminium mounting plate

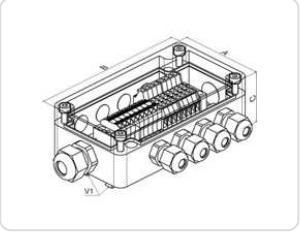
DESIGNATION	ITEM NO.	A	B	C	N	WEIGHT
RPG-4-120-65 Relay Board with Enclosure	1-97-20-20-00-RPG	65	115	40	4	0.32Kg
RPG-8-120-65 Relay Board with Enclosure	1-97-20-26-00-RPG	65	115	40	8	0.355Kg

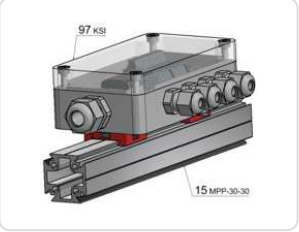
Legend: N = Number of relays / inputs

TERMINAL BOX

KSI terminal box for signal linking







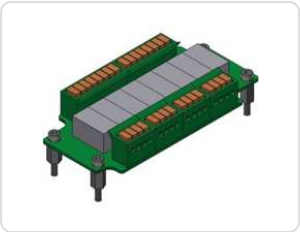
ADVANTAGES

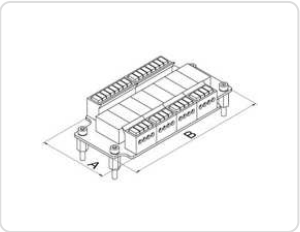
- V1 - Brackets for direct mounting on PreciGrip profile available
- V2 - Simple collection of signals for connecting a busbar trunking system
- V3 - Separate terminals for power supply and signal connection
- V4 - Including cable glands, no further mechanical processing necessary

DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT	X
KSI-12-9	1-97-22-50-00-KSI	65	115	40	2×12	9	0.21Kg	MPP

TERMINAL BOX

REP Relay Board





ADVANTAGES

- V1 - Series connection of initiators
- V2 - Relay on board
- V3 - Status LED all inputs Off
- V4 - Status LED all inputs On

REMARK

- incl. fastening material (stud bolts and screws)

DESIGNATION	ITEM NO.	A	B	N	WEIGHT
REP-4	1-97-20-10-00-REP	50	104	4	0.05Kg
REP-8	1-97-20-16-00-REP	50	104	8	0.075Kg

Legend: N = Number of relays / inputs

97.1 - ELECTRONICS ACCESSORIES

KAB Cable Strap





ADVANTAGES

- V1 - for easy bundling or fastening of hoses and cables
- hoses and cables to each other or to the profile

REMARK

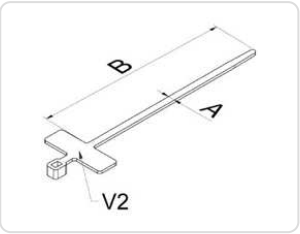
- Colour: silver
- Shipping unit: PU = 100 pieces

DESIGNATION	ITEM NO.	A	B	WEIGHT
KAB-150-3,6	1-97-10-02-00-KAB	3,6	150	0.001Kg
KAB-250-3.6	1-97-10-04-00-KAB	3,6	250	0.001Kg
KAB-250-3.6	1-97-10-05-00-KAB	4,8	290	0.001Kg

97.1 - ELECTRONICS ACCESSORIES

KAB-S Cable Strap





ADVANTAGES

- V1 - for easy bundling or fastening of hoses and cables to each other or to the profile
- V2 - labelling area

REMARK

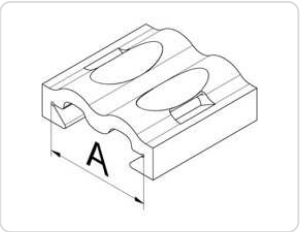
- Colour transparent
- Shipping unit: PU = 10 pieces

DESIGNATION	ITEM NO.	A	B	WEIGHT
KAB-80-2.5-S	1-97-10-10-00-KAB	2,5	80	0.002Kg

97.1 - ELECTRONICS ACCESSORIES

KBE-P Cable Clamp with Prism





ADVANTAGES

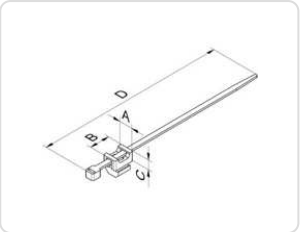
- V1 - for easy bundling and fastening of hoses and cables on a PreciGrip profile
- V2 - simple installation as no tools are required

DESIGNATION	ITEM NO.	A	WEIGHT
KBE-P13	1-97-10-40-00-KBE	P13	0.005Kg
KBE-P22	1-97-10-46-00-KBE	P22	0.005Kg

97.1 - ELECTRONICS ACCESSORIES

KBE Cable Clamp





ADVANTAGES

- V1 - for easy bundling or fastening of hoses and cables to each other or to the profile

REMARK

- Shipping unit PU = 10 pieces

INFO

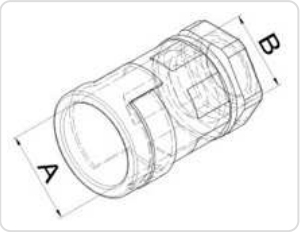
- Links:
- KAB - Cable ties

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
KBE-2	1-97-10-30-00-KBE	10	15	7	150	0.008Kg
KBE-4	1-97-10-34-00-KBE	15	23	10	250	0.009Kg

97.1 - ELECTRONICS ACCESSORIES

KAG Cable Save Tube Connection straight





ADVANTAGES

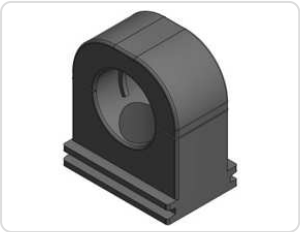
- V1 - easy to handle
- V2 - Excellent tear-out resistance
- V3 - for safety reasons, opening is only possible with a screwdriver

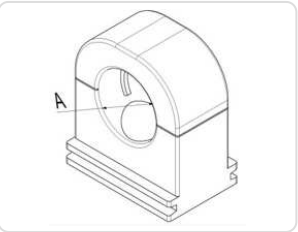
DESIGNATION	ITEM NO.	A	B	C	WEIGHT
KAG-17-G	1-97-25-40-00-KAG	KSS-17	14,5	M20×1,5	0.013Kg
KAG-17-G	1-97-25-48-00-KAG	KSS-29	30,5	M40×1,5	0.026Kg
KAG-36-G	1-97-25-50-00-KAG	KSS-36	32	M40×1,5	0.056Kg

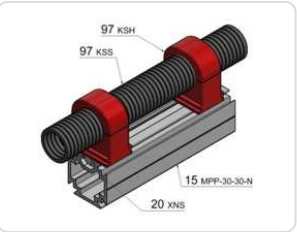
Legend: A = suitable for protective hose KSS-... B = max. internal Ø for cable entry C = external thread

97.1 - ELECTRONICS ACCESSORIES

KSH Cable Save System Holder







ADVANTAGES
- V1 - easy to handle
- V2 - Excellent tear-out resistance
- V3 - One-piece with safety bracket

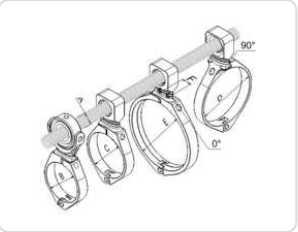
REMARK
- Material: polyamide

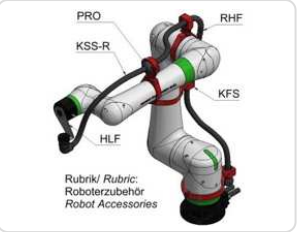
DESIGNATION	ITEM NO.	A	B	C	D	E	WEIGHT
KSH-17	1-97-25-60-00-KSH	17	M6	XNS-6	SPP-N / MPP-N	SPR / XPR	0.005Kg
KSH-23	1-97-25-62-00-KSH	23	M6	XNS-6	SPP-N / MPP-N	SPR / XPR	0.005Kg
KSH-17	1-97-25-64-00-KSH	29	M6	XNS-6	SPP-N / MPP-N	SPR / XPR	0.005Kg
KSH-36	1-97-25-70-00-KSH	36	M6	XNS-6	SPP-N / MPP-N	SPR / XPR	0.014Kg

97.1 - ELECTRONICS ACCESSORIES

KFS Cable routing set







ADVANTAGES
- V1 - easy and safe cable routing in the protective conduit
- V2 - Pivot bearing Adjustable angle up to 15°
- V3 - Swivel bearing 360° rotatable

REMARK

Cable routing sets can also be realised for other robot types on request

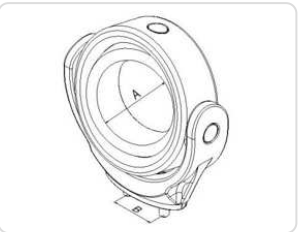
INFO
- Scope of delivery:
- Scope of delivery depends on robot type

DESIGNATION	ITEM NO.	A	B	C	D	E	F	X
KFS-CRX-10-KSS-23	1-97-32-02-00-KFS	KSS-R-23	92	115	135	158	25	1
KFS-CRX-20-KSS-29	1-97-32-06-00-KFS	KSS-R-29	98	108	132	158	25	2

97.1 - ELECTRONICS ACCESSORIES

SLS Swivel bearing for protective hose





ADVANTAGES
- V1 - lightweight and secure protective hose holder
- V2 - Swivel bearing Adjustable angle up to 15°

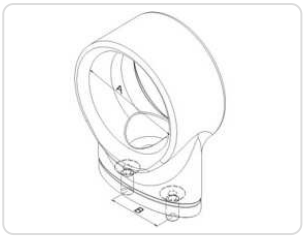
DESIGNATION	ITEM NO.	A	B
SLS-25-KSS-23	1-97-35-12-00-SLS	KSS-23	25
SLS-25-KSS-29	1-97-35-14-00-SLS	KSS-29	25

Legend: A = suitable for cable protection conduit KSS-R.....

97.1 - ELECTRONICS ACCESSORIES

DLS Pivot bearing for protective hose







ADVANTAGES

- V1 - light and safe protective hose holder
- V2 - Swivel bearing 360° rotatable

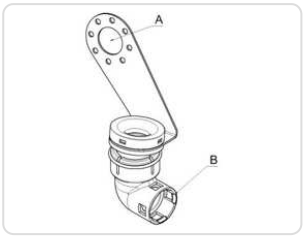
DESIGNATION	ITEM NO.	A	B
DLS-25-KSS-23	1-97-34-12-00-DLS	KSS-23	25
DLS-25-KSS-29	1-97-34-14-00-DLS	KSS-29	25

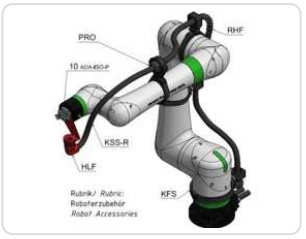
Legend: A = suitable for cable protection conduit KSS-R.....

97.1 - ELECTRONICS ACCESSORIES

HLF Holder for cable routing







ADVANTAGES

- V1 - easy and safe cable routing in the protective conduit
- V2 - the cable guide can be easily attached to the robot flange

REMARK

Bracket for cable guide can also be realised for other robot flange sizes on request

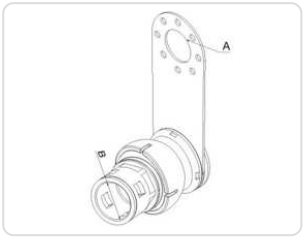
DESIGNATION	ITEM NO.	A	B
HLF-ISO50-KSS-23	1-97-33-10-00-HLF	ISO-50	KSS-23
HLF-ISO50 , KSS-29	1-97-33-12-00-HLF	ISO-50	KSS-29

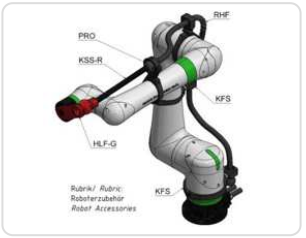
Legend: A = ISO robot flange size B= suitable for protective conduit KSS-R....

97.1 - ELECTRONICS ACCESSORIES

HLF-G Holder for cable routing straight







ADVANTAGES

- V1 - easy and safe cable routing in the protective conduit

REMARK

Bracket for cable routing can also be realised for other sizes of robot flange on request

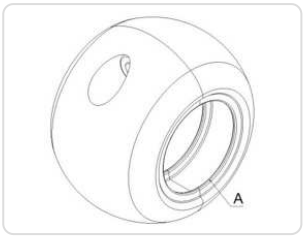
DESIGNATION	ITEM NO.	A	B
HLF-G-ISO31,5-KSS-29	1-97-33-50-00-HLF	ISO-31,5	KSS-29

Legend: A = ISO robot flange size

97.1 - ELECTRONICS ACCESSORIES

PRO Protector for protective hose KSS





ADVANTAGES

- V1 - The protectors
- PRO protect the flexible protective hoses from impact and abrasion. These
- protectors serve as a stop and length limiter for
- protective conduits.
- V2 - The protectors are also suitable for repairing minor damage to the protective hose.

REMARK

- Material: PA6

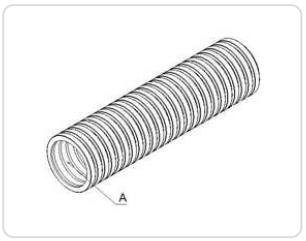
DESIGNATION	ITEM NO.	A
PRO-KSS-23	1-97-37-10-00-PRO	KSS-R-23
PRO-KSS-29	1-97-37-12-00-PRO	KSS-R-29
PRO-KSS-36	1-97-37-14-00-PRO	KSS-R-36

Legend: A = suitable for protective sleeve KSS-R-.....

97.1 - ELECTRONICS ACCESSORIES

KSS-R Cable protection hose for robot applications





ADVANTAGES

- V1 - Suitable for use with robots, as the protective conduits
- are highly flexible.

INFO

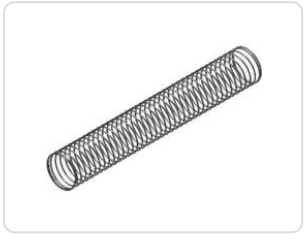
- Delivery quantity:
- metre
- Price: per running metre

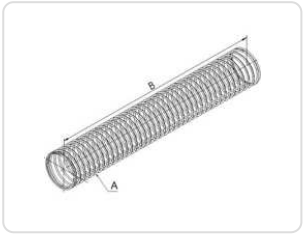
DESIGNATION	ITEM NO.	A
KSS-R-23	1-97-38-08-00-KSS	NW23
KSS-R-29	1-97-38-10-00-KSS	NW29
KSS-R-36	1-97-38-12-00-KSS	NW36

Legend: A = Nominal diameter

97.1 - ELECTRONICS ACCESSORIES

RHF Return spring for KSS-R





ADVANTAGES

- V1 - The return spring is a compression spring that keeps the protective hose KSS-R under tension and thus keeps it away from the robot arm.
- V2 - The spring enables the required hose length to be tracked while the robot arm is moving.

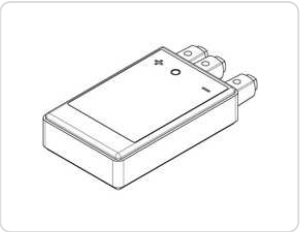
DESIGNATION	ITEM NO.	A	B
RHF-KSS-R-23-600	1-97-39-10-00-RHF	KSS-R-23	600
RHF-KSS-R-29-600	1-97-39-14-00-RHF	KSS-R-29	600
RHF-KSS-R-36-600	1-97-39-18-00-RHF	KSS-R-36	600

Legend: A = suitable for protective hose KSS-R-.... B = untensioned spring length

OTHER

SET Sensor Test Device





ADVANTAGES

- V1 - simple checking and setting of sensors
- V2 - suitable for cylinder sensors (ZYS) and parts inspections (TEK)
- V3 - easy to handle

REMARK

- incl. 2× 9Volt block battery
- Quick release socket
- Optical and acoustic signal

DESIGNATION	ITEM NO.	WEIGHT
SET-6-P Sensor Test Unit	1-97-22-10-00-SET	0.173Kg

OTHER

HUT DIN-rail



ADVANTAGES

- V1 - Mounting rail for easy mounting of electronic components
- V2 - Available in different versions

REMARK

- Material:
- Galvanised steel

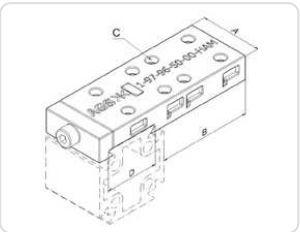
DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
HUT-35-7,5-2000-L	1-97-81-90-00-HUT	35	7,5	2000	+	0.67Kg
HUT-35-7,5-2000	1-97-81-92-00-HUT	35	7,5	2000	-	0.67Kg

Legend: A = Height in mm B = Depth in mm C = length in mm D = slotted holes (+ = yes / - = no)

OTHER

HAM-LOV Holder for Logic Distributor LOV







ADVANTAGES

- For easy mounting of the logic distributor LOV

REMARK

- Material: Polyamide

INFO

- Scope of delivery:

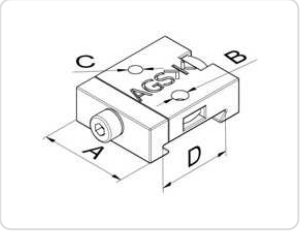
DESIGNATION	ITEM NO.	A	B	C	D	E	X
HAM-25-38-P22-4-LOV	1-97-96-50-00-HAM	25	38	M4	P22	LOV	MPP

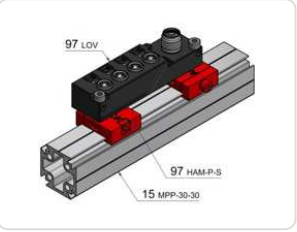
Legend: E = suitable for ... X = suitable for Prisma ....

OTHER

HAM-P-S Holder multi compatible small







REMARK

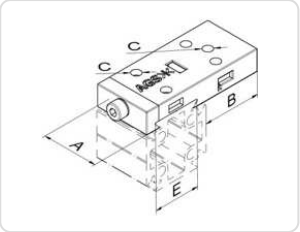
- For easy attachment of terminal boxes etc.
- Material: Polyamide

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
HAM-25-0-4-3-P13-S	1-97-96-06-00-HAM	25	M4	M3	P13	0.011Kg
HAM-25-0-4-3-P22-S	1-97-96-10-00-HAM	25	M4	M3	P22	0.011Kg
HAM-25-0-4-4-P22-S	1-97-96-12-00-HAM	25	M4	M4	P22	0.01Kg

OTHER

HAM-P-M Holder multi compatible medium





REMARK

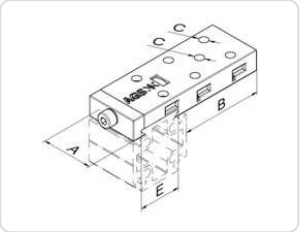
- For easy fastening of terminal boxes etc.
- Material: Polyamide

DESIGNATION	ITEM NO.	A	B	C	E	X
HAM-25-25-4-P22-M	1-97-96-16-00-HAM	25	25	M4	P22	MPP

OTHER

HAM-P-L Holder multi compatible large





REMARK

- For easy attachment of terminal boxes etc.
- Material: Polyamide

DESIGNATION	ITEM NO.	A	B	C	E	X
HAM-25-40-4-P22-L	1-97-96-22-00-HAM	25	40	M4	P22	MPP

98.0 Electrical/tyre connectors

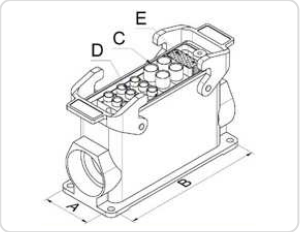


Pure pneumatics or pneumatic connectors

The highlight here is the combination of pneumatic and electrical connections in one housing.

AGH Mounting case





ADVANTAGES

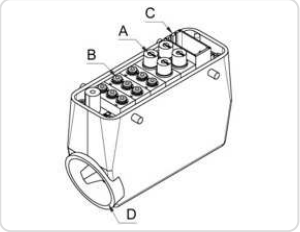
- V1 - Simple connection of air and electrical connections
- V2 - Shockproof due to heavy-duty plug connection

DESIGNATION	ITEM NO.	A	B	C	D	E
AGH-P-13-E-17	1-98-10-40-00-AGH	45	105	4xPSC-6	9xPSC-4	17

Legend: A = width B = length C = pneumatic connections 1 D = pneumatic connections 2 E = number of pins

TGH Grommetcase





ADVANTAGES

- V1 - Simple connection of air and electrical connections
- V2 - Impact-resistant due to heavy-duty plug connection

REMARK

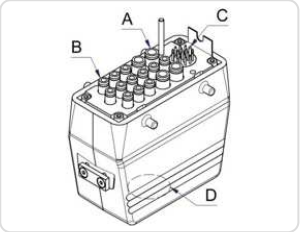
- - 4x pneumatic pins for 6mm hose
- - 9x pneumatic pins for 4mm hose
- - 1x contact insert module pins, 17-pin, crimp contacts
- - 1x cable / hose inlet M40

DESIGNATION	ITEM NO.	A	B	C	D
TGH-P-13-E-17	1-98-10-50-00-TGH	4xPSC-6	9xPSC-4	17	M40

Legend: A = pneumatic connections 1 B = pneumatic connections 2 C = Number of pins

TGH-KM Grommetcase KraussMaffei





ADVANTAGES

- V1 - Simple connection of air and electrical connections

REMARK

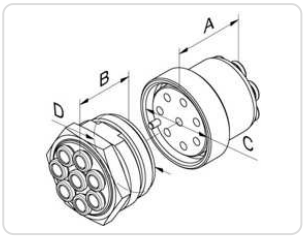
- - TGH-P-16-E-19-KM suitable for: KraussMaffei (EPS-16-19-W)
- - TGH-P-20-E-38-KM suitable for: KraussMaffei (EPS-20-38-W)

DESIGNATION	ITEM NO.	A	B	C	D	WEIGHT
TGH-P-16-E-19-KM	1-98-10-80-00-TGH	4xPSC-6	12xPSC-4	19	M40	0.239Kg
TGH-P-20-E-38-KM	1-98-10-90-00-TGH	6xPSC-6	14xPSC-4	2×19	M50×1,5	0.287Kg

Legend: C = Number of pins per connector(16x signal, +/- , PE)

PMK Pneumatic Multicoupling





ADVANTAGES

- V1 - no interchanging of pressure or vacuum hoses
- V2 - can be disconnected in a few simple steps (union nut)
- V3 - quick connector

REMARK

- Other sizes available on request
- Material: anodised aluminium

OPTION

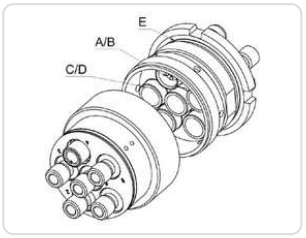
- - with integrated shut-off valve
- - Mounting bracket

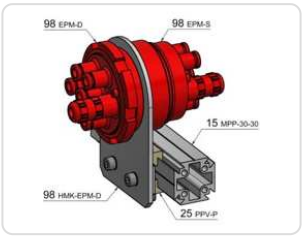
DESIGNATION	ITEM NO.	A	B	C	D	M	N	WEIGHT
PMK-8-6	1-90-12-00-90-PMK	36	30	M40	M40	8	PSC-6	0.278Kg

Legend: M = number of connections N = for pneumatic hose PSC ...

EPM Electro-Pneumatic Multiple Coupling







ADVANTAGES

- V1 - Pneumatic and electrical connections are combined in one interface.
- V2 - no swapping of pressure or vacuum hoses
- V3 - simplest connection to machine elements
- V4 - quick connector
- V5 - Different functions: with and without shut-off

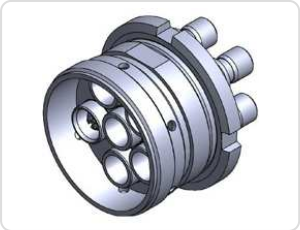
REMARK

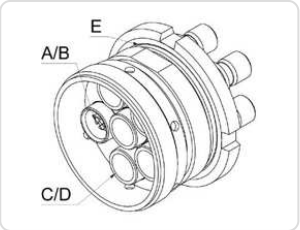
- Robot and gripper side
- Temperature range: -20°C to 120°C
- Operating pressure: up to 6bar

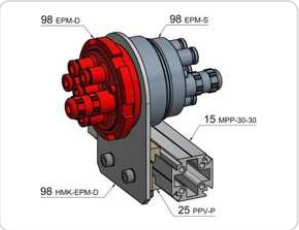
DESIGNATION	ITEM NO.	A	B	C	D	E	F
EPM-1E-8-6P-4-MA	1-98-20-10-00-EPM	1	8-p	6	2,5/4mm	M54×1	MA
EPM-1E-5-5P-6-OA	1-98-20-20-00-EPM	1	5-p	5	4/6mm	M54×1	OA
EPM-1E-5-5P-6-MA	1-98-20-30-00-EPM	1	5-p	5	4/6mm	M54×1	MA

Legend: A = Number of electrical connections B = Electrical socket x-pole C = Number of pneumatic inserts D =pneumatic inserts for hose... E = Thread size fastening F = shut-off: OA - without shut-off MA - with shut-off

EPM-D Electro-Pneumatic Multiple Coupling Socket







ADVANTAGES

- V1 –Pneumatic and electrical connections are combined in one interface.
- V2 - no swapping of pressure or vacuum hoses
- V3 – simplest connection to machine elements
- V4 – quick connector
- V5 - Different functions: with and without shut-off

REMARK

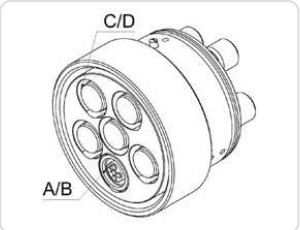
- Robot side
- Temperature range: -20°C to 120°C
- Operating pressure: up to 6 bar

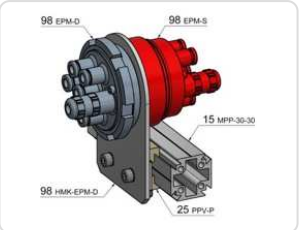
DESIGNATION	ITEM NO.	A	B	C	D	E	F
EPM-D-1E-8-6P-4-MA	1-98-20-12-00-EPM	1	8-p	6	2,5/4mm	M54×1	MA
EPM-D-1E-5-5P-4-6-OA	1-98-20-22-00-EPM	1	5-p	5	4/6mm	M54×1	OA
EPM-D-1E-5-5P-6-MA	1-98-20-32-00-EPM	1	5-p	5	4/6mm	M54×1	MA

Legend: A = Number of electrical sockets B = Electrical socket x-pole C = Number of pneumatic inserts D =pneumatic inserts for hose... E = Thread size fastening F = shut-off: OA - without shut-off MA - with shut-off

EPM-S Electro-Pneumatic Multiple Coupling Plug







ADVANTAGES

- V1 - Pneumatic and electrical connections are combined in one interface.
- V2 - no swapping of pressure or vacuum hoses
- V3 - simplest connection to machine elements
- V4 - quick connector
- V5 - Different functions: with and without shut-off

REMARK

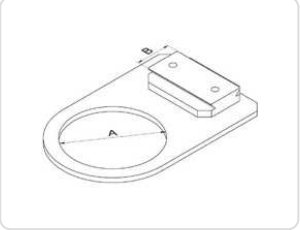
- Gripper side
- Temperature range: -20°C to 120°C
- Operating pressure: up to 6bar

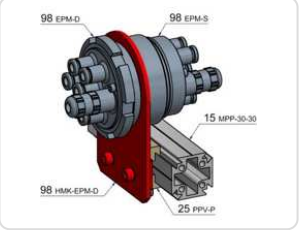
DESIGNATION	ITEM NO.	A	B	C	D	F
EPM-S-1E-8-6P-4-MA	1-98-20-14-00-EPM	1	8-p	6	2,5/4mm	MA
EPM-S-1E-5-5P-6-OA	1-98-20-24-00-EPM	1	5-p	5	4/6mm	OA
EPM-S-1E-5-5P-6-MA	1-98-20-34-00-EPM	1	5-P	5	4/6mm	MA

Legend: A = Number of electric plugs B = Electrical plug x-pole C = Number of pneumatic inserts D =pneumatic inserts for hose... F = shut-off: OA - without shut-off MA - with shut-off

HMK-EPM-D/ Holder for E/P-Plug EPM-D-5-1







ADVANTAGES

- V1 - the electro-pneumatic multiple coupling can be easily integrated into the PreciGrip system

DESIGNATION	ITEM NO.	A	B
HMK-EPM-D	1-98-20-70-00-HMK	54,5	P22

99.0 Tools



IBS-SKS Hexagon screwdriver angled with handle



DESIGNATION	ITEM NO.
IBS-SKT3	1-99-90-00-17-IBS
IBS-SKT4	1-99-90-00-18-IBS

IMB Hexagon screwdriver component threepart





DESIGNATION	ITEM NO.	WEIGHT
IMB-3-4-5	1-99-90-00-08-000	0.174Kg
IBS-SKT3	1-99-90-00-17-IBS	
IBS-SKT4	1-99-90-00-18-IBS	

KEB Core hole drills





ADVANTAGES

- V1 - Core drill for preparation for
- tap GWB

DESIGNATION	ITEM NO.	A	B
KEB-4,2	1-80-90-02-00-KEB	4,2	M5
KEB-8,8	1-80-90-04-00-KEB	8,8	G1/8"
KEB-11,8	1-80-90-06-00-KEB	11,8	G1/4"

Legend: B = suitable for thread .....

GWB Tap



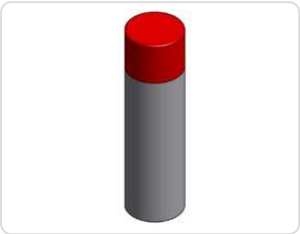


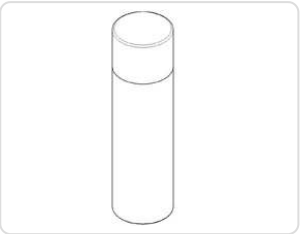
ADVANTAGES

- V1 - suitable taps for the different profiles

DESIGNATION	ITEM NO.	A	WEIGHT
GWB-5-08-D	1-80-90-10-00-GWB	M5	0.012Kg
GWB-8-1	1-80-90-20-00-GWB	M8×1	0.02Kg
GWB-12-1	1-80-90-22-00-GWB	M12×1	0.048Kg
GWB-12-1	1-80-90-23-00-GWB	M12×1,5	0.048Kg
GWB-17-1	1-80-90-24-00-GWB	M17×1	0.092Kg
GWB-27-1	1-80-90-26-00-GWB	M27×1	0.315Kg
GWB-18	1-80-90-30-00-GWB	G1/8	0.028Kg
GWB-14	1-80-90-32-00-GWB	G1/4	0.062Kg

BRE Brake cleaner





INFO

- Area of application:
- - If an air connection has to be bonded, the internal and external threads should be cleaned with brake cleaner beforehand

DESIGNATION	ITEM NO.	A
Bremsenreiniger 500ml	9-90-90-90-01-BRE	500

Legend: A = Filling quantity in ml

99.2 Label for AGS-APP storage system



Label printouts with QR code for all AGS gripper parts ordered as a free addition to the delivery.

Simply add the article 1-99-97-06-02-LAB (see below) to your order. The labels will then be sent with the delivery of your ordered AGS articles.

99.2 – Label for AGS-APP storage system





Label printouts with QR code for all AGS gripper parts ordered as a free addition to the delivery. Simply add the article 1-99-97-06-02-LAB (see below) to your order. The labels will then be sent with the delivery of your ordered AGS articles.

DESIGNATION	ITEM NO.
LAD	1-99-97-06-02-LAB

26 Gripper EOAT Accessories



Hier bieten wir Ihnen alles an, was zu einem rationellen Greiferbau gebraucht wird:

GRIPPER CONSTRUCTION SOFTWARE

Description - Licence - Software





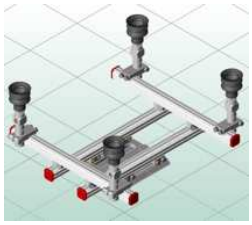
INFO

- The operation of this software is simple and intuitive. No prior knowledge, e.g. in operating a CAD system, is required. CAD - Grip works independently and without the combined use of standard CAD software. The user can configure their gripper offline. This eliminates the need to install software, which often leads to a high need for coordination with the IT department, especially in large companies. CAD - Grip is supplied on a USB stick.
- The application is started by an automatically running file. Installation on the company computer is therefore not necessary. "The application is child's play" The user imports the component to be gripped and moved. The gripper parts can then be systematically arranged from the versatile gripper kit using "drag and drop". At this point, the software supports the user, as the components are equipped with logical snap points that make sensible assignment easier. If the snap point is selected in the software, suitable components from the entire AGS product range are displayed as design proposals. The user receives valuable tips for alternative design solutions. The virtual assembly is checked and optimised. The arrangement of the appropriate gripper components is fully automatic.
- The screen shows whether the component corresponds to the automation solution. Ordering errors are therefore excluded. This applies in particular to the actual assembly of the gripper components in practice. Once the configuration is complete, the parts list is exported to the AGS customer portal and an online order can be triggered.
- The user can also export their configuration from the system. The appropriate format is available to the user for the CAD software used, e.g. Inventor, Autocad, Solidworks, Proengineer or Catia.
- AGS also provides important detailed information with the software. For example, the weight of the selected components is automatically added together and shows the user the total weight of the robot hand. Once a solution has been developed, it can be reproduced at any time and can therefore be used by different users. The documentation can be exported to a PDF file.
- You can obtain the software without the licence file via the link "Download Software". The required licence file will be sent to you by e-mail after submission and signing of the licence agreement (also as a download). This test licence is valid for 6 months.
- Important.
- Import of article data If possible use *.obj files – not larger than 100Mb.
- The file name must not contain spaces.

DESIGNATION	ITEM NO.
CADGrip 2.2	1-99-96-00-00-CGR

EXAMPLES AS A BASIS FOR FURTHER PROCESSING

Example 1

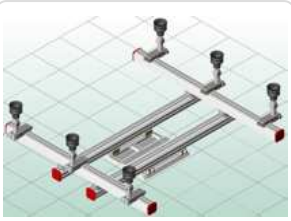




DESIGNATION	ITEM NO.
CGM GGP1 P13 4SG	7-99-00-00-91-000

EXAMPLES AS A BASIS FOR FURTHER PROCESSING

Example 2



This file can be inserted directly into CadGrip. It serves there as the basis for a gripping system. Link to the CadGrip data This file can be added directly to the shopping basket (thus providing a basis for a gripping system) The quantities can then be changed as required in the shopping basket. Link to the *.csv file The prices below are for the material only. No services such as design or assembly are included.

DESIGNATION	ITEM NO.
CGM GGP2 P22 8SG	7-99-00-00-92-000

GRIPPER CONSTRUCTION SOFTWARE

CadGrip Article (not to Order)

DESIGNATION	ITEM NO.	A	B	WEIGHT	X
PEK-18-10-P13 CadGrip	1-20-10-60-02-PEK	18	10	0.001Kg	SPP-18-10-P13
PEK-18-18-P13 CadGrip	1-20-10-62-02-PEK	18	18	0.001Kg	SPP-18-18-P13
PEK-30-15-P22 CadGrip	1-20-10-66-02-PEK	30	15	0.001Kg	MPP-30-15-P22
PEK-30-30-P22 CadGrip	1-20-10-68-02-PEK	30	30	0.003Kg	MPP-30-30-P22
PEK-60-30-P22 CadGrip	1-20-10-72-02-PEK	60	30	0.004Kg	MPP-60-30-P22
PEK-60-60-P22 CadGrip	1-20-10-74-02-PEK	60	60		MPP-60-60-P22

Gripper construction - training



1 day - 8 hours Theory: - Possibilities in gripper construction with PreciGrip - Assistance from AGS (CadGrip, K-Portal, calculation) - Different application examples are shown - Your project will be discussed as required

DESIGNATION	ITEM NO.
EOAT Training Intern	9-99-00-00-00-GBS

GripLab



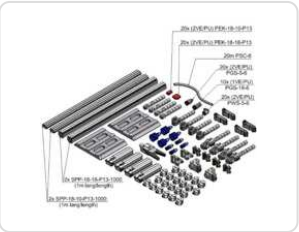
DESIGNATION	ITEM NO.
Simple test setup	7-80-49-99-02-VAB
Complex test setup	7-80-49-99-03-VAB
Gripper concept development, standard, 8 hours	7-80-49-99-04-AGK
Gripper concept development, standard, 16 hours	7-80-49-99-05-AGK
Gripper concept development, special, 24 hours	7-80-49-99-06-AGK

GRIPPER CONSTRUCTION STARTER SETS

GSS-P Start Set prism







Product Description – Gripper (End of Arm Tooling) Construction Starter Kit Our GRPPER construction starter kit is the ideal entry-level solution for quickly and easily building customized gripper systems. It contains a carefully selected range of high-quality components from the AGS Gripper Modular System (EOAT) – perfectly coordinated for maximum flexibility and efficiency. Whether for simple or complex handling tasks: With the GRIPPER construction starter kit, you lay the foundation for customized gripper solutions and benefit from fast assembly, high stability, and modular expansion. Highlights: - Comprehensive basic equipment for Gripper (EOAT) construction - Compatible with the AGS gripper modular system - Modular expandability and versatility - Ideal for quickly starting automation projects

ADVANTAGES

- V1 - All components are available
- V2 - 4 different sizes
- V3 - incl. pneumatic fittings and pneumatic hose

REMARK

- Scope of delivery:
- PreciGrip parts from the gripper base plate to the
- air hose with clamping pieces, gripper arms,
- suction pads, grippers (gripper fingers and
- sprue cutters are not included)
- incl. plastic case
- The image shown above is only a sample.
- The actual product may differ in the scope of delivery.

INFO

The following link will take you to the individual CSV files which can then be loaded directly into the shopping basket:

DESIGNATION	ITEM NO.	A	B
GSS-GGP1-P13-D10	1-99-95-00-80-GSS	P13	10
GSS-GGP1-P13-D10-D14	1-99-95-00-82-GSS	P13	10+14
GSS-GGP2-P22-D14	1-99-95-00-90-GSS	P22	14
GSS-GGP2-P22-D14-D20	1-99-95-00-92-GGS	P22	14+20

Legend: A = Gripper parts for prism system .... included B = Gripper parts with diameter .... included

GRIPPER CONSTRUCTION STARTER SETS

GSS-U-P EOAT - Transfer Set Prism





Product Description – Gripper (End of Arm Tooling) Construction Starter Kit Our GRPPER construction starter kit is the ideal entry-level solution for quickly and easily building customized gripper systems. It contains a carefully selected range of high-quality components from the AGS Gripper Modular System (EOAT) – perfectly coordinated for maximum flexibility and efficiency. Whether for simple or complex handling tasks: With the GRIPPER construction starter kit, you lay the foundation for customized gripper solutions and benefit from fast assembly, high stability, and modular expansion. Highlights: - Comprehensive basic equipment for Gripper (EOAT) construction - Compatible with the AGS gripper modular system - Modular expandability and versatility - Ideal for quickly starting automation projects

ADVANTAGES

- V1 - All components are available
- V2 - 4 different sizes

REMARK

- Content can be customised to meet specific requirements
- (for selection, the profile size and clamping diameter must be specified)

DESIGNATION	ITEM NO.	A	B
GSS-U-GGP1-P13-D10	1-99-95-00-60-GSS	P13	10
GSS-U-GGP1-P13-D10-D14	1-99-95-00-62-GSS	P13	10+14
GSS-U-GGP2-P22-D14	1-99-95-00-70-GSS	P22	14
GSS-U-GGP2-P22-D14-D20	1-99-95-00-72-GSS	P22	14+20

Legend: A = Gripper parts for prism system .... included B = Gripper parts with diameter .... included

GRIPPER CONSTRUCTION STARTER SETS

GSS-S EOAT - Start Set Standard





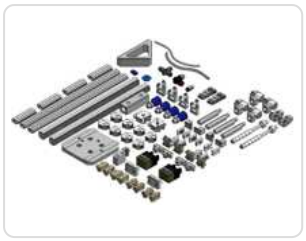
Product Description – Gripper (End of Arm Tooling) Construction Starter Kit Our GRPPER construction starter kit is the ideal entry-level solution for quickly and easily building customized gripper systems. It contains a carefully selected range of high-quality components from the AGS Gripper Modular System (EOAT) – perfectly coordinated for maximum flexibility and efficiency. Whether for simple or complex handling tasks: With the GRIPPER construction starter kit, you lay the foundation for customized gripper solutions and benefit from fast assembly, high stability, and modular expansion. Highlights: - Comprehensive basic equipment for Gripper (EOAT) construction - Compatible with the AGS gripper modular system - Modular expandability and versatility - Ideal for quickly starting automation projects

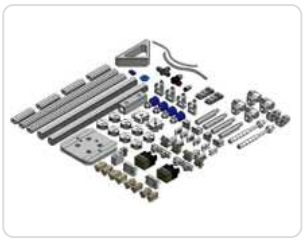
DESIGNATION	ITEM NO.	A	B
GSS-S-1	1-99-95-00-10-GSS	SPR	10

DESIGNATION	ITEM NO.	A	B
GSS-S-2	1-99-95-00-20-GSS	SPR	10
GSS-X-1	1-99-95-00-30-GSS	XPR	14
GSS-X-2	1-99-95-00-40-GSS	XPR	14

GRIPPER CONSTRUCTION STARTER SETS

GSS-P-SCHUNK EOAT - Start Set Prism SCHUNK





Product Description – GRIPPER (EOAT) Construction Starter Kit / Schunk Components The AGS GRIPPER (EOAT) construction starter kit offers the ideal introduction to modular gripper construction. It contains a well-thought-out selection of basic components from the AGS gripper modular system and enables the rapid construction of customized gripping solutions – flexible, stable, and efficient. A special highlight: The kit is compatible with Schunk parallel grippers and offers special adapter solutions for easy integration. This allows Schunk grippers to be seamlessly integrated into the AGS GRIPPER (End of Arm Tooling) modular system – for reliable handling solutions and maximum process reliability. Highlights: - Basic kit for modular GRIPPER construction. Ideal for combination with Schunk parallel grippers. - Fast assembly thanks to precisely fitting components. - Lightweight design for dynamic applications. - Modular expandability for individual requirements.

DOCUMENTS

- Startset-GSS-ADP-ISO50-P13-MGP32-Schunk.pdf
- Path

DESIGNATION	ITEM NO.	A	B	C
GSS-ADP-ISO50-P13-MGP32-Schunk	1-99-95-01-10-GSS	ADP-ISO50	P13	PAG-MPG-32

GRIPPER CONSTRUCTION STARTER SETS

KOF Case with removable insert boxes

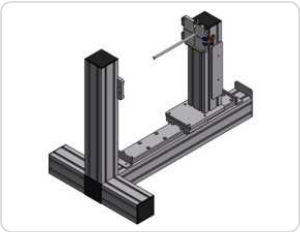


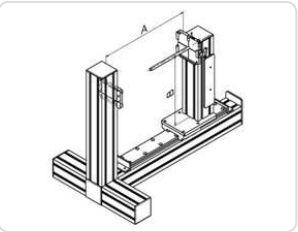


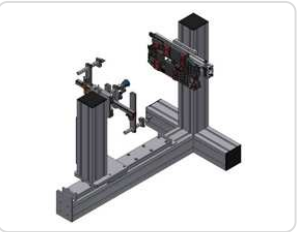
DESIGNATION	ITEM NO.	WEIGHT
KOF	9-84-99-00-10-010	2.3Kg

MONTAGEBOY

MBO-T Montageboy – table version







Gripper Montageboy – efficient gripper building directly on the part With the gripper Montageboy, building grippers is more efficient than ever. Instead of laborious planning at the desk, the Montageboy lets you build the gripper directly on the real part – fast, precise and practical. Thanks to the mobile system and the integrated clamping fixture, gripper components can be positioned flexibly and ergonomically. The result is a perfectly fitting gripper in the shortest possible time, without detours. Advantages: - Direct assembly on the original part - Time savings through hands-on work - Higher precision when aligning the gripper - Mobile and flexible use in production

ADVANTAGES

- V1 - simple, efficient gripper building
- V2 - function check of the gripper
- V3 - reproducibility – gripper – part

REMARK

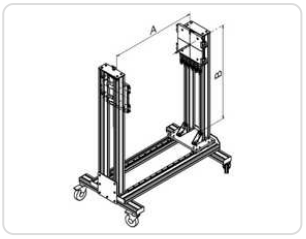
- - Gripper quick-change system GWS-1 or GWS-2
- - Clamping fixture for the moulded parts
- - Vacuum generation via integrated venturi nozzle
- - Vacuum monitoring via pressure gauge
- - Function check of the active elements (fingers, tongs etc.) via integrated compressed-air valve
- - Centring aid – gripper centre = workpiece centre

DESIGNATION	ITEM NO.	A	B
MBO-1-T	1-99-90-00-01-000	398	315
MBO-2-T	1-99-90-00-05-000	398	315

MONTAGEBOY

MBO-F Montageboy – mobile floor version







Gripper Montageboy – efficient gripper building directly on the part With the gripper Montageboy, building grippers is more efficient than ever. Instead of laborious planning at the desk, the Montageboy lets you build the gripper directly on the real part – fast, precise and practical. Thanks to the mobile system and the integrated clamping fixture, gripper components can be positioned flexibly and ergonomically. The result is a perfectly fitting gripper in the shortest possible time, without detours. Advantages: - Direct assembly on the original part - Time savings through hands-on work - Higher precision when aligning the gripper - Mobile and flexible use in production

ADVANTAGES

- V1 - simple, efficient gripper building
- V2 - function check of the gripper
- V3 - reproducibility – gripper – part

REMARK

- - Gripper quick-change system GWS-3
- - Clamping fixture for the moulded parts
- - Vacuum generation via integrated venturi nozzle
- - Vacuum monitoring via pressure gauge
- - Function check of the active elements (fingers, tongs etc.) via integrated compressed-air valve
- - Centring aid – gripper centre = workpiece centre

DESIGNATION	ITEM NO.	A	B	C
MBO-3-770-F	1-99-90-00-15-000	772	852,5	GWS-3
MBO-3-1300-F	1-99-90-00-16-000	1300	852,5	GWS-3

Legend: C = equipped with two GWS-....

TEST SET

TSS Testset vacuum attempts





DESIGNATION	ITEM NO.
TSS	1-99-90-00-09-000

TEST SET

TSS-SG3 Test set suction pads with various - SG3





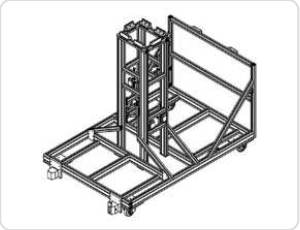
REMARK

- Accessories:

DESIGNATION	ITEM NO.
TSS-SG3	1-99-90-00-14-000

TRO EOAT Trolley





DESIGNATION	ITEM NO.
TRO	1-99-90-00-60-000

ADVERTISING MATERIAL

MGB-P Sample Gripper Tree



DESIGNATION	ITEM NO.	SW
MGB-P	1-99-02-10-00-MGB	1

ADVERTISING MATERIAL

GMK Sample case small



DESIGNATION	ITEM NO.
SGMK-10-P13	9-99-99-99-96-GMK

ADVERTISING MATERIAL

TAS Coffeecup





DESIGNATION	ITEM NO.
AGS ceramic cup	9-99-99-99-02-TAS

ADVERTISING MATERIAL

KAL A3 fold-out calendar – 2027



DOCUMENTS

- AGS-Kalender-2026.pdf
- Path

DESIGNATION	ITEM NO.
AGS folding calendar 2025	9-99-99-99-02-KAL

SPARE PARTS GRIPPER PARTS

DRF Pressure spring for gripper changing system GWS





REMARK

Pressure spring of the clamping lever for gripper changing system GWS

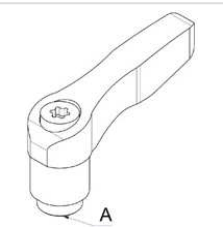
DESIGNATION	ITEM NO.	SW	X
DRF-0,8-5,8-8,3	2-90-02-00-14-DRF	1	GWS-01 -0 -1
D180A Druckfeder für Backe	2-90-02-00-92-DRF	1	GWS-3

Legend: X = suitable for ...

SPARE PARTS GRIPPER PARTS

KLH Clamping lever for gripper changing system GWS





REMARK

- Clamping lever for gripper changing system GWS

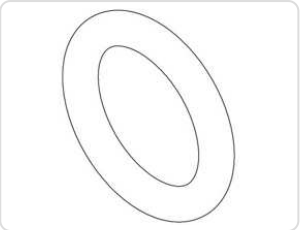
DESIGNATION	ITEM NO.	A	SW	WEIGHT	X
KLH-M5-I	2-90-00-30-02-KLH	M5	1	0.032Kg	GWS-01 -0 -1
KLH-M6-I	2-90-00-30-04-KLH	M6	1	0.032Kg	GWS-2
KLH-M8-I	2-90-00-30-06-KLH	M8	1	0.082Kg	GWS-3

Legend: X = suitable for ...

SPARE PARTS GRIPPER PARTS

ORI-GWS-R-K O-ring for GWS-R-K





REMARK

- O-ring spare part for the air coupling of the
- Gripper changing system GWS-R-K
- Shipping unit:
- PU = 10 pieces
- Price: 1 PU

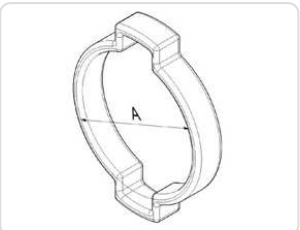
DESIGNATION	ITEM NO.	X
ORI-GWS-R-10-K	9-17-37-71-10-010	GWS-R-10-K
ORI-GWS-R-20-K	9-17-37-71-11-025	GWS-R-20-K

Legend: X = suitable for ...

SPARE PARTS GRIPPER PARTS

ZOS 2-ear clamp for suction pad SGO





REMARK

- 2-ear clamp for suction pad SGO
- Scope of delivery:
- Shipping unit: PU = 10 pieces
- Price: 1 PU

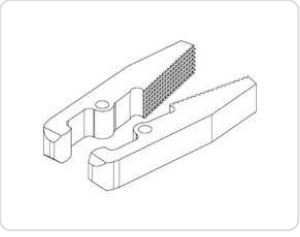
DESIGNATION	ITEM NO.	A	B	SW
ZOS-15-17-4	2-90-01-10-00-ZOS	17	4	1
ZOS-15-18-4	2-90-01-10-02-ZOS	18	4	1
ZOS-11-13-4	2-90-01-10-04-ZOS	13	4	1

Legend: B = Thickness

SPARE PARTS GRIPPER PARTS

BAC-GZA Gripper jaw sets for GZA grippers





ADVANTAGES

- V1 - Gripper jaws with special coating
- V2 - jaw surface cross serrated

REMARK

- suitable for GZA-PA - gripper prism body
- Scope of delivery:
- Shipping unit: 1VE = 2 gripper jaws
- Price: Set price (1VE)

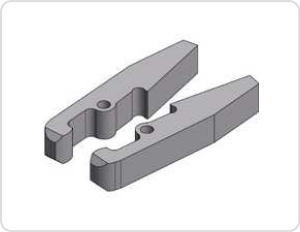
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-8	1-63-50-10-00-BAC	0.006Kg	GZA-10-8-P13
BAC-GZA-10-12	1-63-50-12-00-BAC	0.006Kg	GZA-10-12-P13
BAC-GZA-14-16	1-63-50-14-00-BAC	0.006Kg	GZA-14-16-P13/GZA-20-16-P13

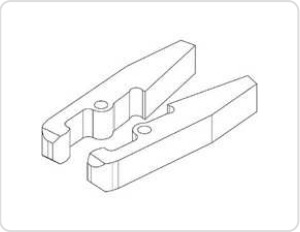
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-20-20	1-63-50-16-00-BAC	0.006Kg	GZA-20-20-P22

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-G Gripper jaw sets for GZA-G grippers





ADVANTAGES

- V1 - Gripper jaws with special coating
- V2 - Jaw surface with smooth surface

REMARK

- suitable for GZA-G - gripper smooth jaws
- Scope of delivery:
- Shipping unit: 1PU = 2 gripper jaws
- Price: Set price (1 PU)

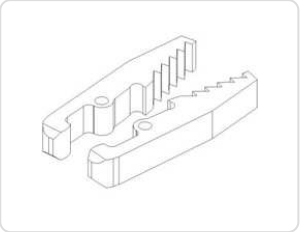
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-8-G	1-63-50-50-00-BAC	0.006Kg	GZA-10-8-G
BAC-GZA-10-12-G	1-63-50-52-00-BAC	0.006Kg	GZA-10-12-G
BAC-GZA-14-16-G	1-63-50-54-00-BAC	0.006Kg	GZA-14-16-G
BAC-GZA-20-20-G	1-63-50-55-00-BAC	0.043Kg	GZA-20-20-G

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-S Gripper jaw sets for GZA-S grippers





ADVANTAGES

- V1 - Gripper jaws with special coating

REMARK

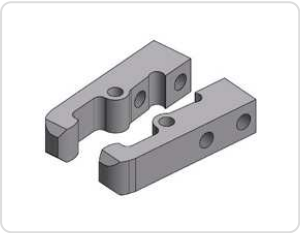
- suitable for GZA-PA - gripper prism body
- Scope of delivery:
- Shipping unit: 1VE = 2 gripper jaws
- Price: Set price (1VE)

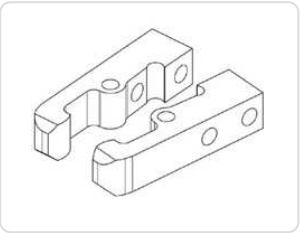
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-8-S	1-63-50-18-00-BAC	0.006Kg	GZA-10-8-S
BAC-GZA-14-16-S	1-63-50-38-00-BAC	0.006Kg	GZA-14-16-S
BAC-GZA-10-12	1-63-50-42-00-BAC	0.004Kg	GZA-10-12-S
BAC-GZA-20-20-S	1-63-50-44-00-BAC	0.006Kg	GZA-20-20-S

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-A Gripper jaw sets for GZA-A grippers





ADVANTAGES

- V1 - Gripper jaws with special coating

REMARK

- suitable for GZA-A - gripper with adapter jaws
- Scope of delivery:
- Shipping unit: 1PU = 2 gripper jaws
- Price: Set price (1 PU)

DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-8-A	1-63-50-20-00-BAC	0.006Kg	GZA-10-8-A
BAC-GZA-10-12-A	1-63-50-22-00-BAC	0.004Kg	GZA-10-12-A

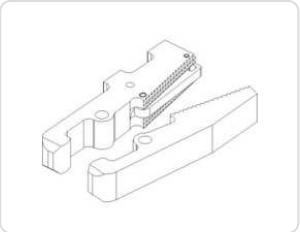
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-14-16-A	1-63-50-24-00-BAC	0.018Kg	GZA-14-16-A/GZA-20-16-A
BAC-GZA-20-20-A	1-63-50-26-00-BAC	0.03Kg	GZA-20-20-A

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-C Gripper jaw sets for GZA-C grippers





ADVANTAGES

- V1 - Gripper jaws with special coating

REMARK

- suitable for GZA-C - gripper with sprue query
- Please order sensors separately:
- Link > ZYS-3,7-S - Cylinder sensor with plug
- Link > ZYS-3,7-K - Cylinder sensor with cable
- Scope of delivery:
- Shipping unit: 1VE = 1 jaw set
- Jaw set consisting of:
- 1x sensor side gripper jaw with switching lug
- 1x gripper jaw with groove
- Price: Set price (1 PU)

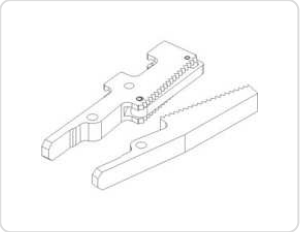
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-8-C	1-63-50-30-00-BAC	0.017Kg	GZA-10-8-C
BAC-GZA-10-12-C	1-63-50-32-00-BAC	0.017Kg	GZA-10-12-C
BAC-GZA-14-16-C	1-63-50-34-00-BAC	0.004Kg	GZA-14-16-C
BAC-GZA-20-20-C	1-63-50-36-00-BAC	0.058Kg	GZA-20-20-C

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-C-T Gripper jaw sets for GZA-C-T grippers





ADVANTAGES

- V1 - The gripper jaws and the switching lug are Teflon-coated.
- This prevents the sprue from sticking to the jaws.

REMARK

- suitable for GZA-C-T - gripper with sprue detection
- Please order sensors separately:
- Link > ZYS-3,7-S - cylinder sensor with plug
- Link > ZYS-3,7-K - cylinder sensor with cable
- Scope of delivery:
- Shipping unit: 1PU = 1 jaw set
- Jaw set consisting of:
- 1x sensor side gripper jaw with switching flag
- 1x gripper jaw with groove
- Price: set price (1 PU)

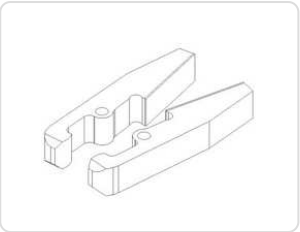
DESIGNATION	ITEM NO.	X
BAC-GZA-20-20-G	1-63-50-56-00-BAC	GZA-10-12-C
BAC-GZA-10-8-C-T	1-63-50-59-00-BAC	GZA-10-8-C-T

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-EP Gripper jaw sets for GZA-EP grippers





ADVANTAGES

- V1 - Gripper jaws with elastomer-PUR coating

REMARK

- suitable for GZA-EP - gripper with elastomer-PUR coating
- Scope of delivery:
- Shipping unit: 1VE = 2 gripper jaws
- Price: Set price (1 PU)

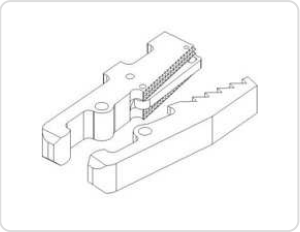
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-12-EP	1-63-50-64-00-BAC	0.006Kg	GZA-10-12-EP
BAC-GZA-14-16-EP	1-63-50-66-00-BAC	0.006Kg	GZA-14-16-EP
BAC-GZA-20-20-EP	1-63-50-68-00-BAC	0.006Kg	GZA-20-20-EP

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-S-C Gripper jaw sets for GZA-S-C grippers





ADVANTAGES

- V1 - Gripper jaws with special coating

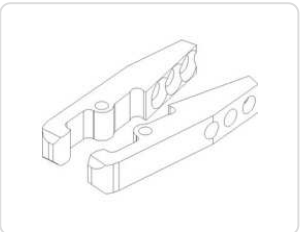
DESIGNATION	ITEM NO.	X
BAC-GZA-10-12-S-C	1-63-50-33-00-BAC	GZA-10-12-S-C-S
BAC-GZA-14-16-S-C	1-63-50-35-00-BAC	GZA-14-16-S-C-S
BAC-GZA-20-20-S-C	1-63-50-37-00-BAC	GZA-20-20-S-C-S

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-L Gripper jaw sets for GZA-L grippers





ADVANTAGES

- V1 - Gripper jaws with special coating

REMARK

- suitable for GZA-L - gripper prism body
- Scope of delivery:
- Shipping unit: 1VE = 2 gripper jaws
- Price: Set price (1VE)

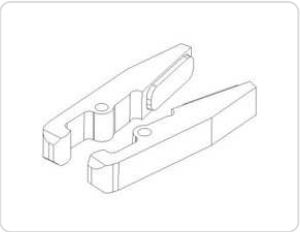
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-12-L	1-63-50-72-00-BAC	0.011Kg	BAC-GZA-10-12-L
BAC-GZA-14-16-L	1-63-50-74-00-BAC	0.027Kg	BAC-GZA-14-16-L
BAC-GZA-20-20-L	1-63-50-76-00-BAC	0.043Kg	BAC-GZA-20-20-L

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BAC-GZA-SI Gripper jaw sets for GZA-SI grippers





ADVANTAGES

- V1 - Gripper jaws with special coating
- V2 - Gripper jaws with silicone insert, which are elastic and
- temperature resistant

REMARK

- suitable for GZA-SI - gripper prism body
- Scope of delivery:
- Shipping unit: 1VE = 2 gripper jaws
- Price: Set price (1VE)

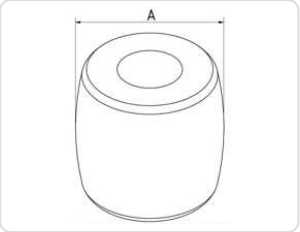
DESIGNATION	ITEM NO.	WEIGHT	X
BAC-GZA-10-12-SI	1-63-50-90-00-BAC	0.006Kg	GZA-10-12-SI
BAC-GZA-14-16-SI	1-63-50-92-00-BAC	0.006Kg	GZA-14-16-SI
BAC-GZA-20-20-SI	1-63-50-94-00-BAC	0.006Kg	GZA-20-20-SI

Legend: X = suitable for GZA-.....

SPARE PARTS GRIPPER PARTS

BLG-IBG Bellows for inner bellows gripper





REMARK

- Material: silicone (SI)

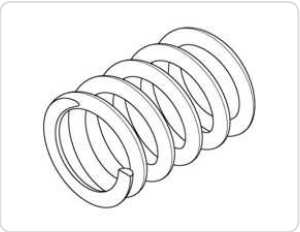
DESIGNATION	ITEM NO.	A	B	X
BLG-IBG-10.5-14-E	1-69-00-20-11-003	10.5	IBG-10.5-14	EPDM
BLG-IBG-10.5-14-S	1-69-00-20-11-005	10.5	IBG-10.5-14	SI
BLG-IBG-13-17-E	1-69-00-20-12-002	13	IBG-13-17	EPDM
BLG-IBG-13-17-S	1-69-00-20-12-005	13	IBG-13-17	SI
BLG-IBG-15-19.5-E	1-69-00-20-14-002	15	IBG-15-19.5	EPDM
BLG-IBG-15-19.5-S	1-69-00-20-14-005	15	IBG-15-19.5	SI
BLG-IBG-19.5-25-E	1-69-00-20-16-002	19.5	IBG-19.5-25	EPDM
BLG-IBG-19.5-25-S	1-69-00-20-16-005	19.5	IBG-19.5-25	SI
BLG-IBG-24-31.5-E	1-69-00-20-18-002	24	IBG-24-31.5	EPDM
BLG-IBG-24-31.5-S	1-69-00-20-18-005	24	IBG-24-31.5	SI
BLG-IBG-28-37-E	1-69-00-20-22-002	28	IBG-28-37	EPDM
BLG-IBG-28-37-S	1-69-00-20-22-005	28	IBG-28-37	SI
BLG-IBG-34-45-E	1-69-00-20-24-002	34	IBG-34-45	EPDM
BLG-IBG-34-45-S	1-69-00-20-24-005	34	IBG-34-45	SI
BLG-IBG-42-54-E	1-69-00-20-26-002	42	IBG-42-54	EPDM
BLG-IBG-42-54-S	1-69-00-20-26-005	42	IBG-42-54	SI
BLG-IBG-54-68-E	1-69-00-20-28-002	54	IBG-54-68	EPDM
BLG-IBG-54-68-S	1-69-00-20-28-005	54	IBG-54-68	SI
BLG-IBG-66-85-E	1-69-00-20-29-002	66	IBG-66-85	EPDM
BLG-IBG-66-85-S	1-69-00-20-29-005	66	IBG-66-85	SI
BLG-IBG-8-11-E	1-69-00-20-30-002	8	IBG-8-11	EPDM
BLG-IBG-8-11-S	1-69-00-20-30-005	8	IBG-8-11	SI

Legend: B = suitable for inner bellows gripper IBG-... pulling and pushing X = material

SPARE PARTS GRIPPER PARTS

DRF-ANS Pressure spring for sprue cutter ANS





REMARK

- Spare part for sprue cutter, compression spring to push back the piston
- Material:

INFO

- Links:
- Sprue cutting pliers ANS
- Sprue cutting pliers ANS-H
- Sprue cutting pliers ANS-Q

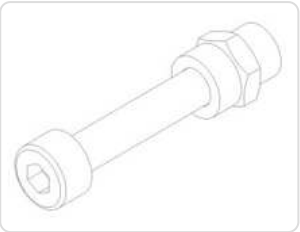
DESIGNATION	ITEM NO.	WEIGHT	X
DRF-ANS-3	1-75-02-00-20-DRF	0.008Kg	ANS-3
DRF-ANS-5	1-75-02-00-22-DRF	0.008Kg	ANS-5
DRF-ANS-7	1-75-02-00-24-DRF	0.01Kg	ANS-7
DRF-ANS-10	1-75-02-00-26-DRF	0.011Kg	ANS-10
DRF-ANS-20	1-75-02-00-28-DRF	0.03Kg	ANS-20
DRF-ANS-30	1-75-02-00-30-DRF	0.037Kg	ANS-30
DRF-ANS-50	1-75-02-00-32-DRF	0.13Kg	ANS-50

Legend: X = suitable for ANS ...

SPARE PARTS GRIPPER PARTS

ZKS-M-ANS Cylinder head bolt with nut for ANS





REMARK

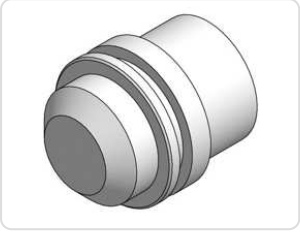
- Spare part for ANS sprue cutting pliers
- Material:
- Steel 10.2

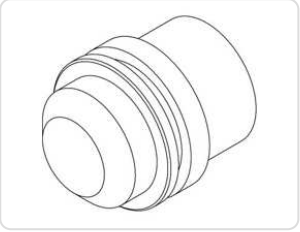
DESIGNATION	ITEM NO.	WEIGHT	X
ZKS-4-20-M-ANS-3	1-75-02-00-90-ZKS	0.004Kg	ANS-3
ZKS-4-24-M-ANS-5+7	1-75-02-00-92-ZKS	0.005Kg	ANS-5 / ANS-7
ZKS-4-27-M-ANS-10	1-75-02-00-94-ZKS	0.005Kg	ANS-10 / ANS-20
ZKS-5-40-M-ANS-30+50	1-75-02-00-96-ZKS	0.01Kg	ANS-30 ANS-50

Legend: X = Suitable for ANS ...

SPARE PARTS GRIPPER PARTS

KOL-ANS Piston for sprue cutter ANS





DESIGNATION	ITEM NO.	X
KOL-ANS-03	1-70-80-30-00-KOL	ANS-03
KOL-ANS-05	1-70-80-32-00-KOL	ANS-05
KOL-ANS-07	1-70-80-34-00-KOL	ANS-07
KOL-ANS-10	1-70-80-36-00-KOL	ANS-10

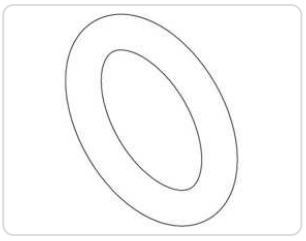
DESIGNATION	ITEM NO.	X
KOL-ANS-20	1-70-80-38-00-KOL	ANS-20
KOL-ANS-30	1-70-80-40-00-KOL	ANS-30
KOL-ANS-50	1-70-80-42-00-KOL	ANS-50

Legend: X = suitable for ANS- ...

SPARE PARTS GRIPPER PARTS

ORI-KOL-ANS O-ring for piston ANS





REMARK

- Spare part for the pistons of the ANS sprue cutting pliers
- Scope of delivery:
- Shipping unit: PU = 10 pieces
- Price: 1 PU

DESIGNATION	ITEM NO.	X
ORI-KOL-ANS-03	1-70-80-50-00-ORI	KOL-ANS-03
ORI-KOL-ANS-05	1-70-80-52-00-ORI	KOL-ANS-05
ORI-KOL-ANS-07	1-70-80-54-00-ORI	KOL-ANS-07
ORI-KOL-ANS-10	1-70-80-56-00-ORI	KOL-ANS-10
ORI-KOL-ANS-20	1-70-80-58-00-ORI	KOL-ANS-20
ORI-KOL-ANS-30	1-70-80-60-00-ORI	KOL-ANS-30
ORI-KOL-ANS-50	1-70-80-62-00-ORI	KOL-ANS-50

Legend: X = suitable for KOL-ANS- ...

SPARE PARTS GRIPPER PARTS

ANE-ANS-H Hand lever for ANS-H





REMARK

- Spare part for sprue cutter with manual operation ANS-H

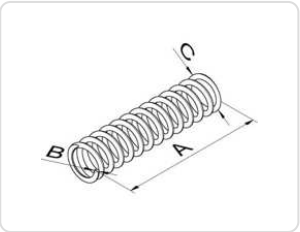
DESIGNATION	ITEM NO.	X
ANE-ANS-10-H	1-70-80-08-00-ANE	ANS-10-H
ANE-ANS-20-H	1-70-80-10-00-ANE	ANS-20-H
ANE-ANS-30-H	1-70-80-12-00-ANE	ANS-30-H
ANE-ANS-50-H	1-70-80-14-00-ANE	ANS-50-H

Legend: O = including springs and clamping sleeve X = suitable for ANS- ...-H

SPARE PARTS GRIPPER PARTS

DRF-SZE Pressure spring for sprue cutter insert SZE





DESIGNATION	ITEM NO.	A	B	C	WEIGHT
DRF-SZE-0,7-5,5-22	1-75-02-00-02-DRF	22	0,7	5,5	0.001Kg
DRF-SZE-1-8-28	1-75-02-00-04-DRF	28	1	8	0.002Kg

Legend: A = Length B = wire gauge C = outside diameter