












▶ PNEUMATIC		
	Series LGS	450
	Series LG1000	458
	Series LGG	468
	Series RG	474
	Series ST	480
	Series SCH	486
	Series GS	492
	Series GSI	500
	Series HM1000	504

INTERNAL GRIPPER

SERIES LGS

▶ PRODUCT ADVANTAGES



▶ Concentration on the essentials

The most economic type of gripping: This is how you reduce your production costs

▶ Individually machinable clamping jaws

You have never adjusted a gripper to your application this quickly and easily

▶ Direct drive

The control system with only one pneumatic line reduces installation effort and interference contours

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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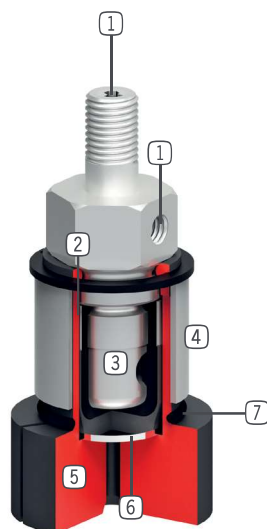
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	LG4-20	<input type="checkbox"/>		
extended collet chuck		V		



► BENEFITS IN DETAIL



- ① **Energy supply**
 - axial and radial possible
- ② **Protective membrane**
 - between collet chuck and function membrane
- ③ **Direct drive with membrane**
 - only one pneumatic line required
- ④ **Stroke limit**
 - prevents damage by overstretching with empty strokes
- ⑤ **Collet chuck**
 - for individual machining
- ⑥ **Steel protective cover**
 - protects the membrane against puncturing
- ⑦ **O-ring for backstroke**
 - gripper close movement after venting

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



INTERNAL GRIPPER

INSTALLATION SIZE LG4-20

1

Installation size LG4-20 / Internal gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Collet Chuck

DST04200



Collet chuck V-version

DST04201

▶ RECOMMENDED ACCESSORIES

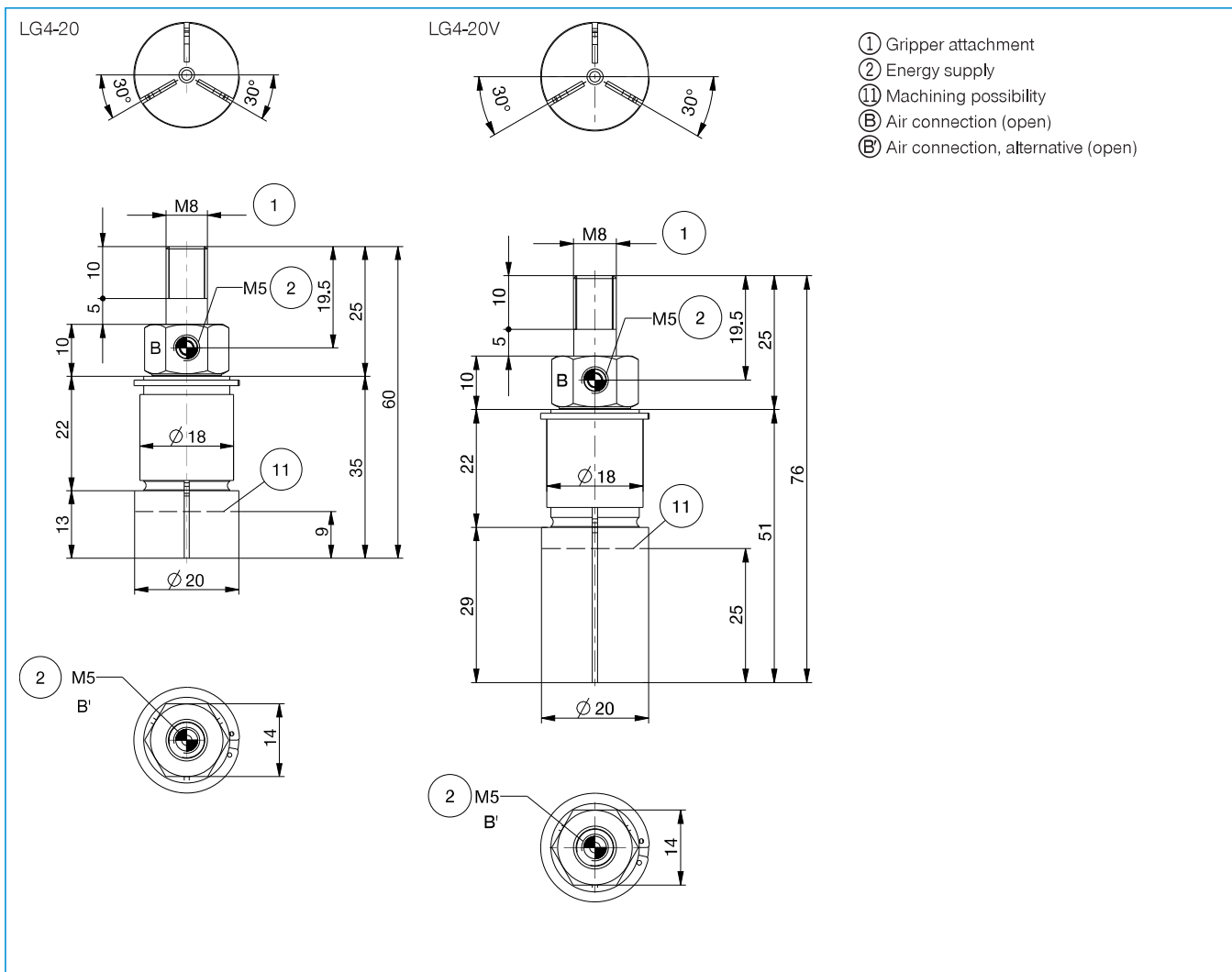


Straight Fittings - Quick Connect Style

GVM5

Order no.	▶ Technical Data*	
	LG4-20	LG4-20V
Total stroke in Ø [mm]	1	1
Grip diameter min. [mm]	4	4
Gripping moment in opening [Nm]	0.5	0.5
Closing time [s]	0.1	0.1
Opening time [s]	0.1	0.1
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+60	+60
Air volume per cycle [cm³]	1	1
Weight [kg]	0.075	0.115
Machining length of the collet max. [mm]	9	25

*All data measured at 6 bar



INTERNAL GRIPPER

INSTALLATION SIZE LG20-30

1

Installation size LG20-30 / Internal gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Collet Chuck

DST20300



Collet chuck V-version

DST20301

▶ RECOMMENDED ACCESSORIES

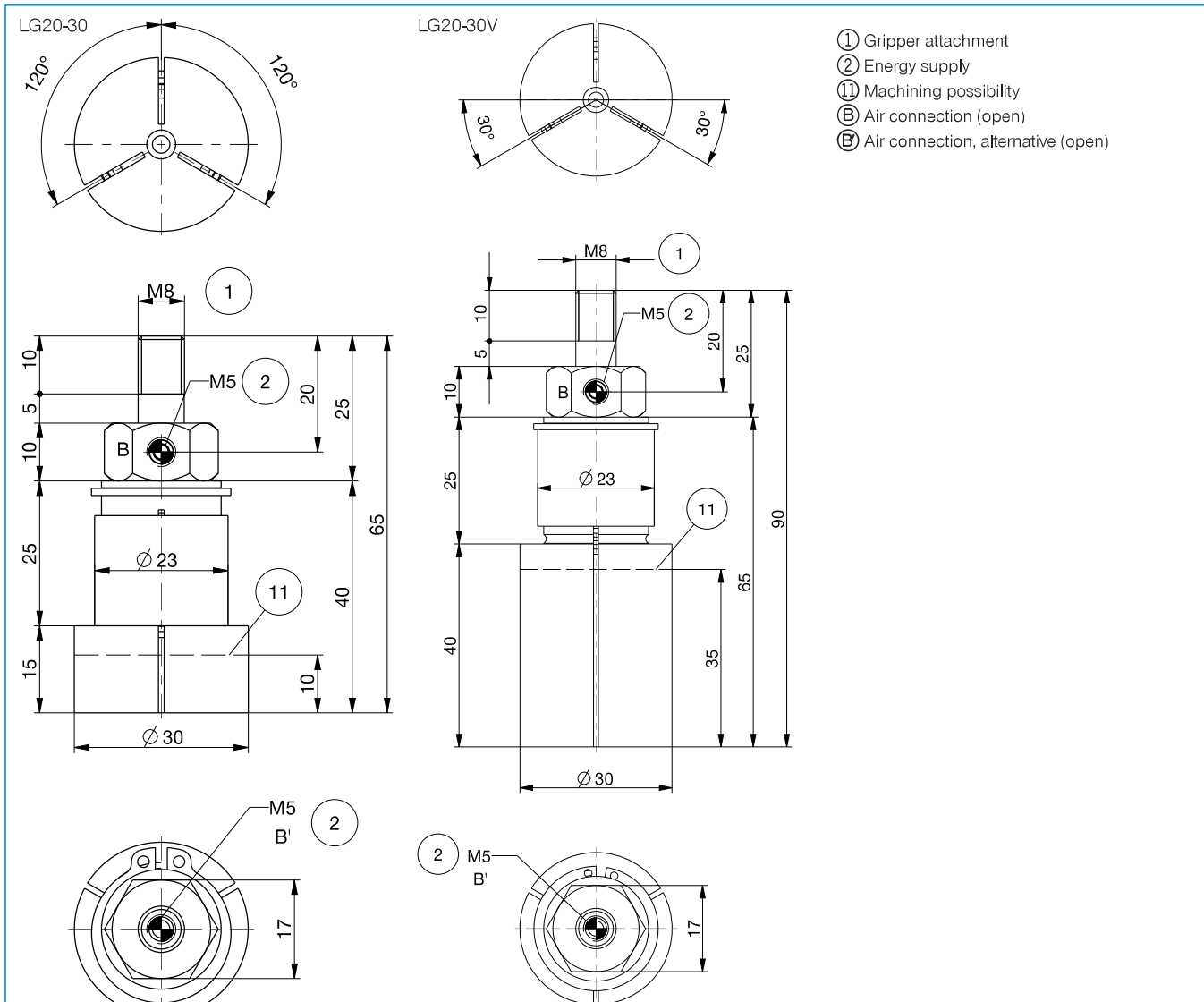


Straight Fittings - Quick
Connect Style

GVM5

Order no.	▶ Technical Data*	
	LG20-30	LG20-30V
Total stroke in Ø [mm]	1	1
Grip diameter min. [mm]	5	5
Gripping moment in opening [Nm]	2	2
Closing time [s]	0.1	0.1
Opening time [s]	0.1	0.1
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+60	+60
Air volume per cycle [cm³]	3	3
Weight [kg]	0.16	0.29
Machining length of the collet max. [mm]	10	35

*All data measured at 6 bar



INTERNAL GRIPPER

INSTALLATION SIZE LG30-50

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Collet Chuck

DST30500

▶ RECOMMENDED ACCESSORIES



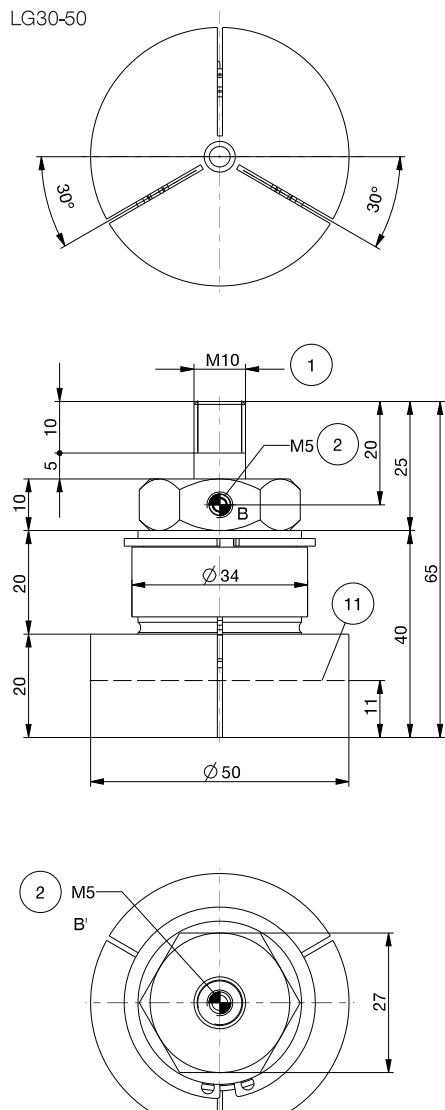
Straight Fittings - Quick
Connect Style

GVM5

Order no.	Technical Data*
Total stroke in Ø [mm]	1
Grip diameter min. [mm]	6
Gripping moment in opening [Nm]	3
Closing time [s]	0.1
Opening time [s]	0.1
Operating pressure min. [bar]	4
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+60
Air volume per cycle [cm³]	5
Weight [kg]	0.46
Machining length of the collet max. [mm]	11

*All data measured at 6 bar

LG30-50



- ① Gripper attachment
- ② Energy supply
- ⑪ Machining possibility
- Ⓑ Air connection (open)
- Ⓑ' Air connection, alternative (open)

INTERNAL GRIPPER

SERIES LG1000

▶ PRODUCT ADVANTAGES



▶ Individually adjustable

The design of the gripper enables you to grip not only cylindrical gripping surfaces, but also conical and square ones with process reliability

▶ Integrated air or vacuum feedthrough

Use this option for applications such as leak tests, purging or vacuuming your part

▶ Surface protection provided by silicone membrane

In addition to covering a vast range of gripper hole diameters, the membrane provides ideal protection from damage

▶ THE BEST PRODUCT FOR YOUR APPLICATION



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HOW TO ORDER CORRECTLY

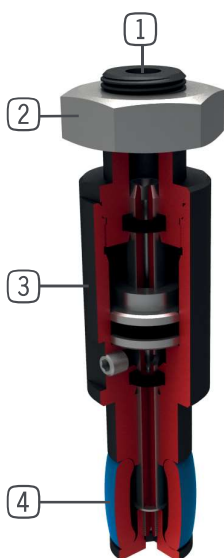
- ▶ The product order numbers are arranged according to this diagram:

Order no.	LG1008	<input type="checkbox"/>	SI	
Axial energy supply		-01		
Radial energy supply, through-hole		-02		
Silicone rubber membrane				



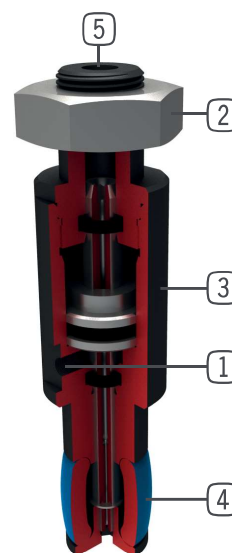
► BENEFITS IN DETAIL

Version-01

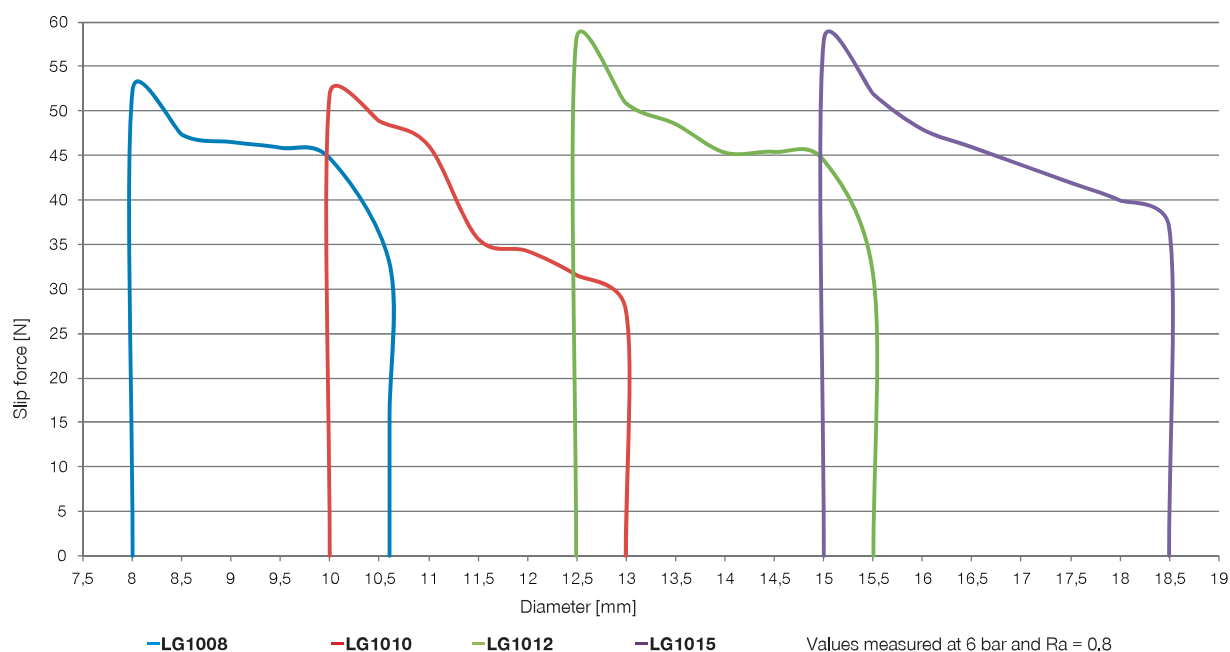


- ① **Energy supply**
 - Axial (version-01) or radial (version-02)
- ② **Mounting and positioning**
 - via fit, thread and lock nut
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Direct gripping with rubber membrane**
 - High holding force due to high friction value
 - reset when venting
- ⑤ **Through-hole**
 - Compressed air or vacuum connection for cooling the workpieces or testing them for leaks (version-02)

Version-02



► SLIP FORCE DIAGRAM



INTERNAL GRIPPER

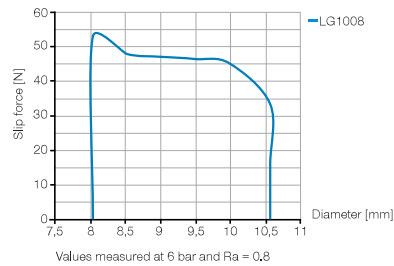
INSTALLATION SIZE LG1008

1

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02350



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

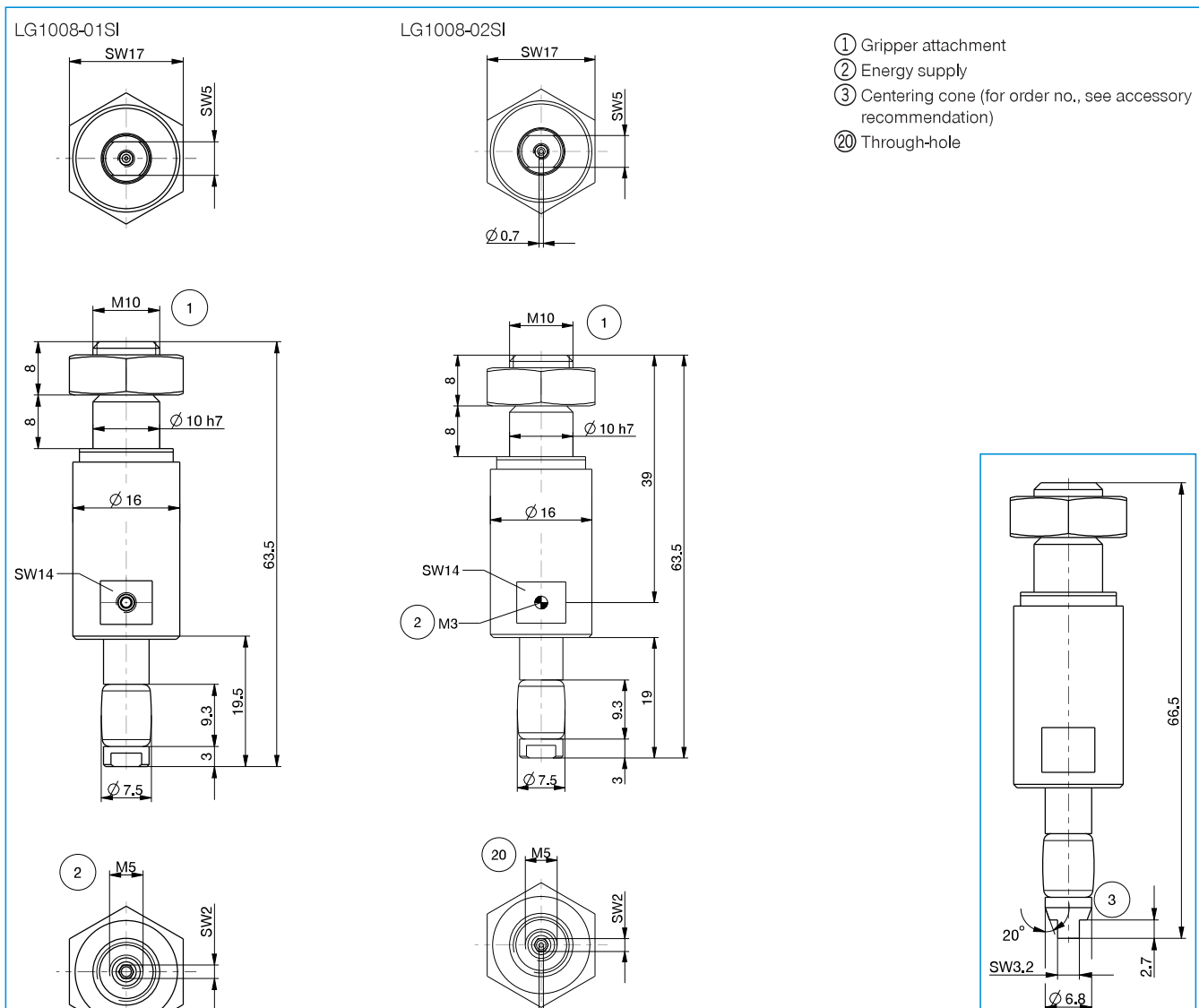


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1008-01SI	LG1008-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	10.5	10.5
Grip diameter min. [mm]	8	8
Total stroke in Ø [mm]	2.5	2.5
Max. slip force [N]	53	53
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.032	0.028

*All data measured at 6 bar



INTERNAL GRIPPER

INSTALLATION SIZE LG1010

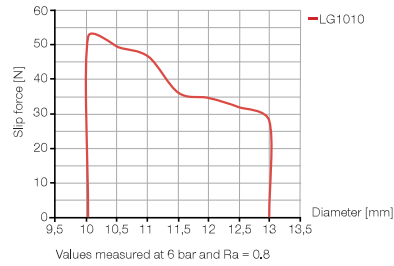
1

Installation size LG1010 / Internal gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02360



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

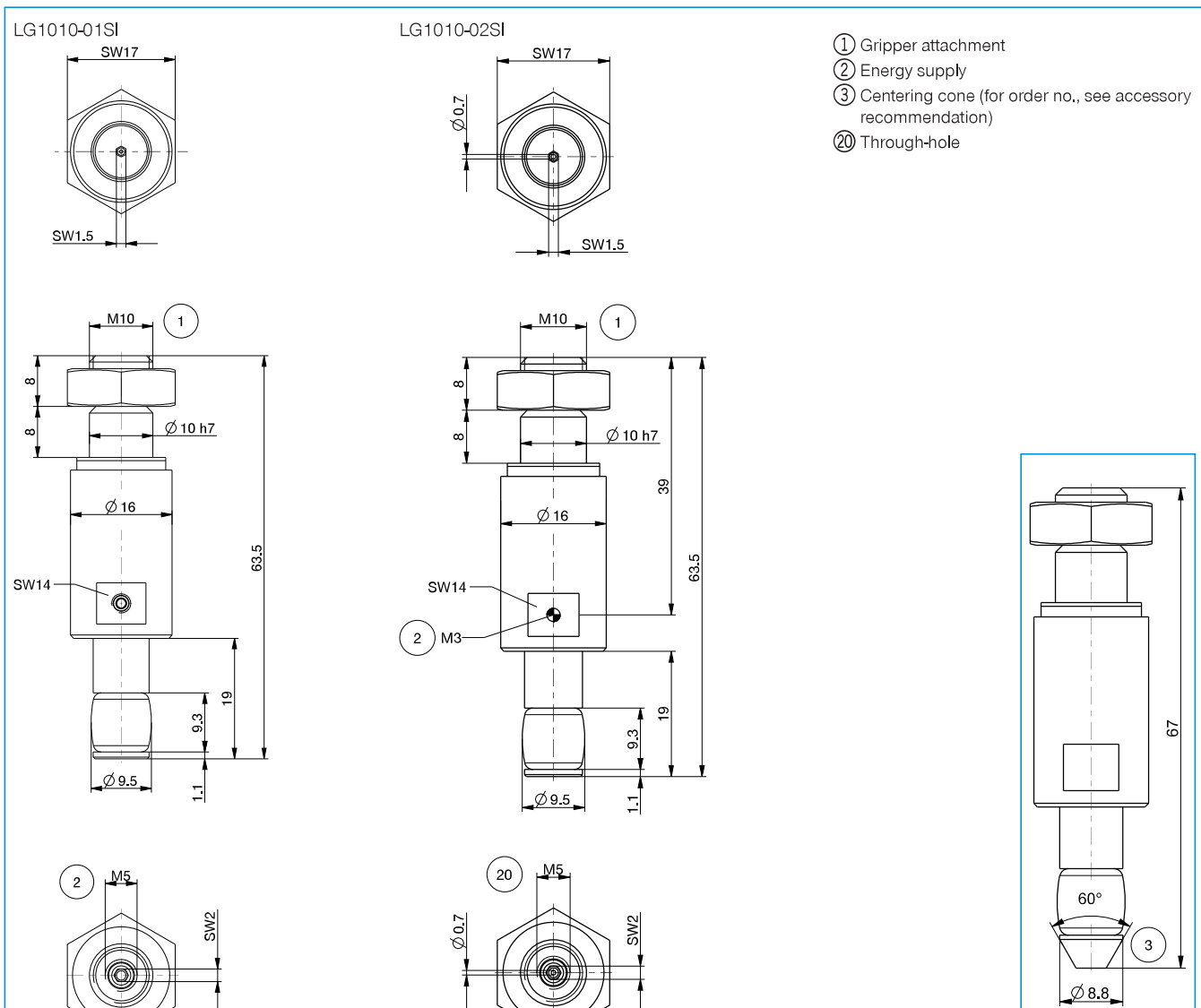


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1010-01SI	LG1010-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	13	13
Grip diameter min. [mm]	10	10
Total stroke in Ø [mm]	3	3
Max. slip force [N]	53	53
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.033	0.029

*All data measured at 6 bar



INTERNAL GRIPPER

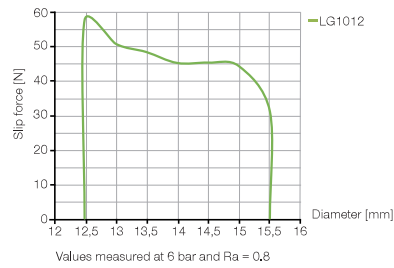
INSTALLATION SIZE LG1012

1

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02370



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

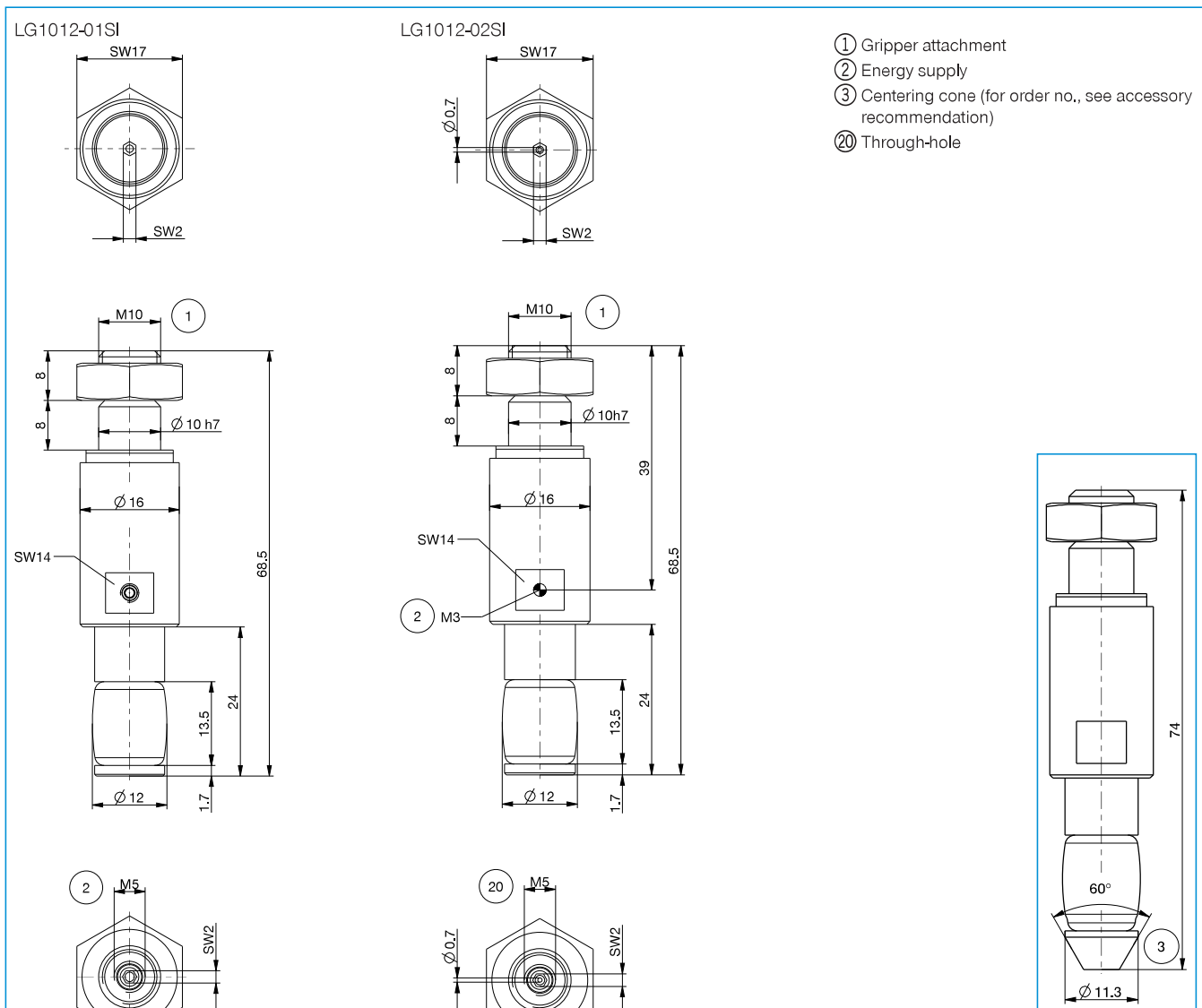


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1012-01SI	LG1012-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	15.5	15.5
Grip diameter min. [mm]	12.5	12.5
Total stroke in Ø [mm]	3	3
Max. slip force [N]	58	58
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.036	0.034

*All data measured at 6 bar



INTERNAL GRIPPER

INSTALLATION SIZE LG1015

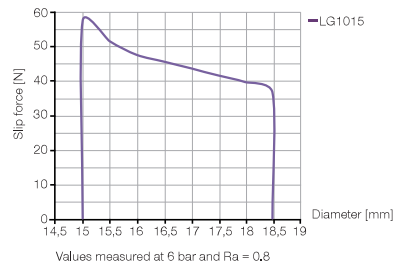
1

Installation size LG1015 / Internal gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02380



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

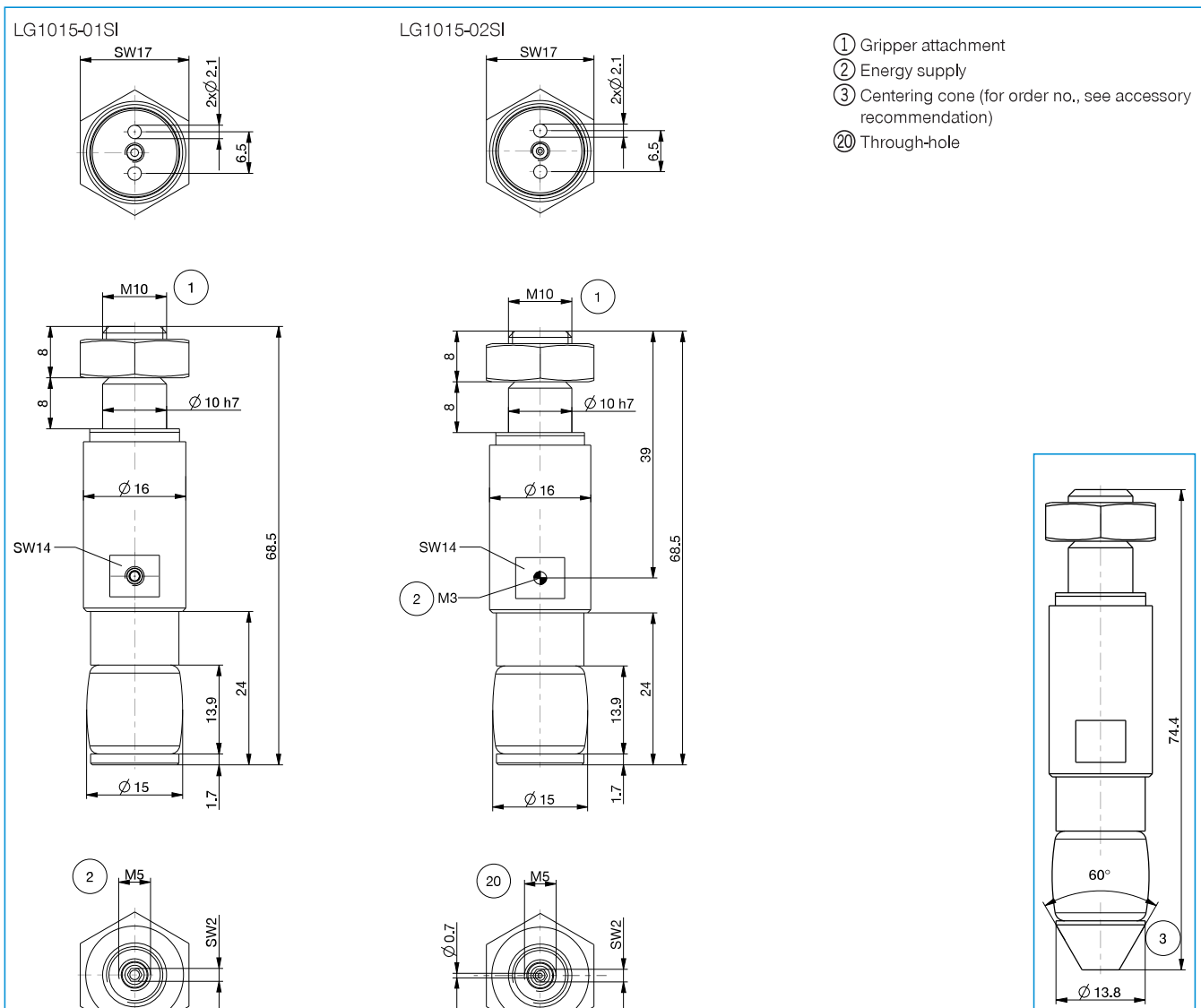


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1015-01SI	LG1015-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	18.5	18.5
Grip diameter min. [mm]	15	15
Total stroke in Ø [mm]	3.5	3.5
Max. slip force [N]	58	58
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.041	0.037

*All data measured at 6 bar



INTERNAL GRIPPER

SERIES LGG

▶ PRODUCT ADVANTAGES



▶ **Surface protection with rubber knobs**

Continuously protect the surface of your workpieces and minimise rejections in the process

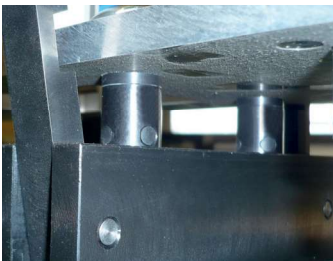
▶ **Secure hold**

The coefficient of friction ensures your workpiece stays held reliably, even under high dynamics

▶ **Direct drive**

The control system with only one pneumatic line reduces installation effort and interference contours

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

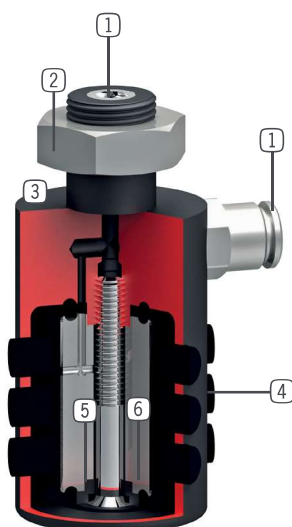
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► BENEFITS IN DETAIL



- 1 Energy supply**
 - radial
 - axial and radial from LG35-39
- 2 Fixing**
 - by fit, thread and locknut
- 3 Robust, lightweight housing**
 - Hard-coated aluminum alloy
 - no overstretching of the rubber membrane at empty stroke
- 4 Direct gripping with rubber knobs**
 - high retention force due to good friction value, approx. 0.5 with rubber
- 5 Gripping with single-acting rubber membranes**
 - low actuate effort
 - reset when venting
 - adjustable force with operating pressure (2 - 6 bar)
- 6 Inner core**
 - saves air volume and cycle time (from LG35-39)

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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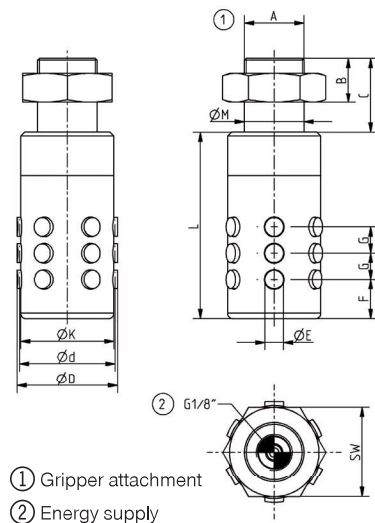
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INTERNAL GRIPPER SERIES LGG

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Quick Exhaust Valve

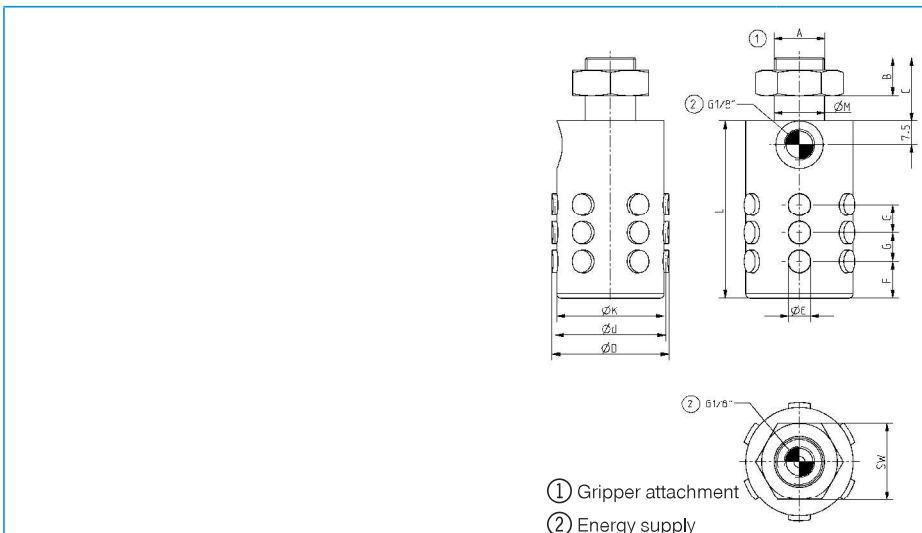
DEV06

▶ Technical Data*

Order no.	LG15-18	LG18-22	LG22-26	LG26-30	LG30-35
Total stroke in Ø [mm]	2,5	4	4	4	5
Clamping diameter d min. [mm]	15	17,5	21,5	25,5	29,5
Clamping diameter D max. [mm]	17,5	21,5	25,5	29,5	34,5
Gripping force in extraction [N]	100	100	150	150	200
Retract time / Extend time [s]	0,2	0,2	0,2	0,2	0,2
Repetition accuracy +/- [mm]	0,05	0,05	0,05	0,05	0,05
Operating pressure min. [bar]	2	2	2	2	2
Operating pressure max. [bar]	6	6	6	6	6
Air volume per cycle [cm ³]	1	1	1	2	3
Operating temperature min. [°C]	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80
A	M14X1,5	M14X1,5	M14X1,5	M16X1	M16X1
C [mm]	18	18	20	20	20
E Ø [mm]	5	5	5	6	7
F [mm]	10,5	10,5	11,5	10,5	11,5
G [mm]	7	7	7	7	8
K Ø [mm]	14,5	17	21	25	29
L [mm]	42	42	50	50	52
M Ø [mm]	14h7	14h7	14h7	16h7	16h7
Weight [kg]	0,031	0,035	0,051	0,071	0,09

*All data measured at 6 bar

▶ **PRODUCT SPECIFICATIONS**



▶ **RECOMMENDED ACCESSORIES**



Straight Fittings - Quick Connect Style
GV1-8X6



Quick Exhaust Valve
DEV06

▶ **Technical Data***

Order no.	LG35-39	LG40-45	LG46-51	LG51-56	LG56-62	LG63-70	LG71-80	LG76-84	LG81-90	LG91-100
Total stroke in Ø [mm]	4,5	6,5	6	7	7,5	8	10,5	8,5	11	10
Clamping diameter d min. [mm]	34,5	39,5	45,5	50,5	55,5	62,5	70,5	75,5	80,5	90,5
Clamping diameter D max. [mm]	39	46	51,5	57,5	63	70,5	81	84	91,5	100,5
Gripping force in extraction [N]	300	400	500	750	900	1100	1500	1700	2000	2500
Retract time / Extend time [s]	0,2	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,4	0,4
Repetition accuracy +/- [mm]	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
Operating pressure min. [bar]	2	2	2	2	2	2	2	2	2	2
Operating pressure max. [bar]	6	6	6	6	6	6	6	6	6	6
Air volume per cycle [cm³]	5	8	13	17	25	33	42	53	67	117
Operating temperature min. [°C]	5	5	5	5	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80	+80	+80	+80	+80
A	M16X1	M16X1	M16X1	M16X1	M16X1	M20X1.5	M20X1.5	M20X1.5	M20X1.5	M20X1.5
C [mm]	20	20	20	20	20	15	15	15	15	15
E Ø [mm]	7	8	9	10	11	12,5	15	15,5	16	18
F [mm]	11,5	14	15,5	17	19	21,5	21,5	22,7	24,5	26,5
G [mm]	9	11	12	13	14,5	15,5	18	19	20	22,5
K Ø [mm]	34	39	45	50	50	62	70	75	80	90
L [mm]	56	62	68	74	80	86	92	96	100	110
M Ø [mm]	16h7	16h7	16h7	16h7	16h7	20h7	20h7	20h7	20h7	20h7
Weight [kg]	0.13	0.178	0.26	0.37	0.373	0.53	0.69	0.8	1	1.3

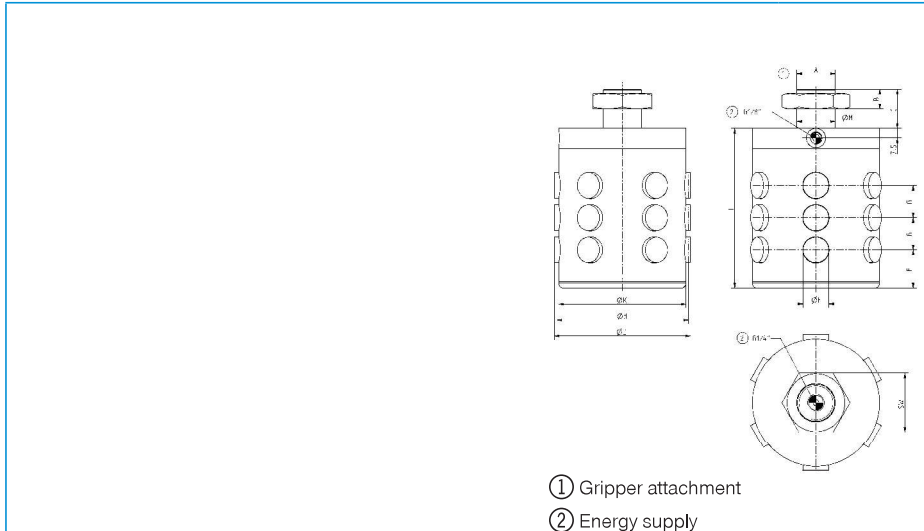
*All data measured at 6 bar

INTERNAL GRIPPER SERIES LGG

1

Size LG100-110 - LG120-135 / internal gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



- ① Gripper attachment
- ② Energy supply

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style
GV1-8X6



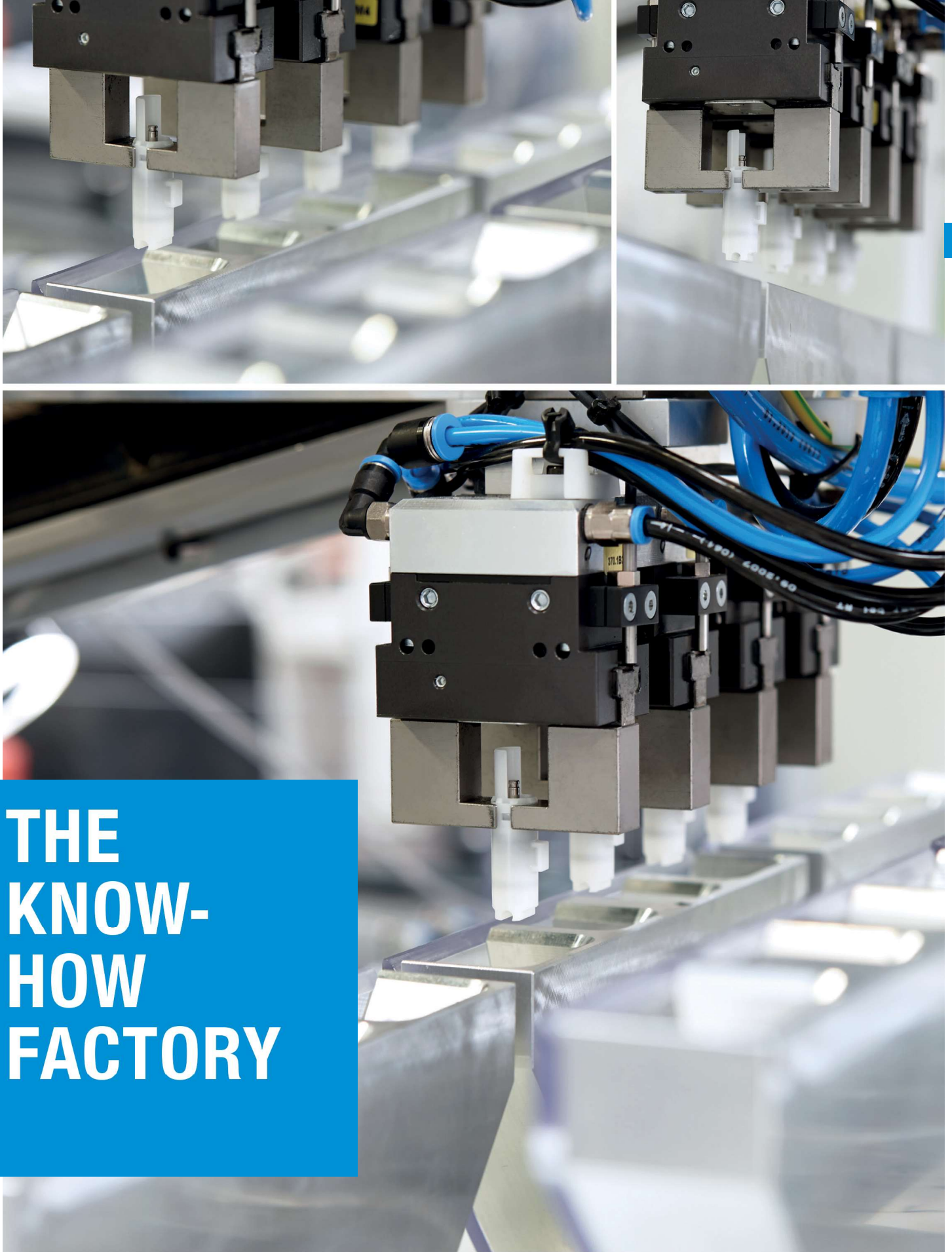
Quick Exhaust Valve
DEV06

▶ Technical Data*

Order no.	LG100-110	LG110-120	LG120-135
Total stroke in Ø [mm]	11	11	16
Clamping diameter d min. [mm]	99.5	109.5	119.5
Clamping diameter D max. [mm]	110.5	120.5	135.5
Gripping force in extraction [N]	2800	3500	3500
Retract time / Extend time [s]	0.4	0.4	0.4
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	6	6	6
Air volume per cycle [cm³]	150	200	250
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
A	M30X1.5	M30X1.5	M30X1.5
C [mm]	30	30	30
E Ø [mm]	20	22	22
F [mm]	30	31	37
G [mm]	25	25	28
K Ø [mm]	99	109	119
L [mm]	120	130	145
M Ø [mm]	30h7	30h7	30h7
Weight [kg]	1.9	2.3	2.7

*All data measured at 6 bar

THE KNOW- HOW FACTORY



EXTERNAL GRIPPER SERIES RG

▶ PRODUCT ADVANTAGES



▶ **Surface protection with rubber knobs**

Continuously protect the surface of your workpieces and minimise rejections in the process

▶ **Secure hold**

The coefficient of friction ensures your workpiece stays held reliably, even under high dynamics

▶ **Direct drive**

The control system with only one pneumatic line reduces installation effort and interference contours

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

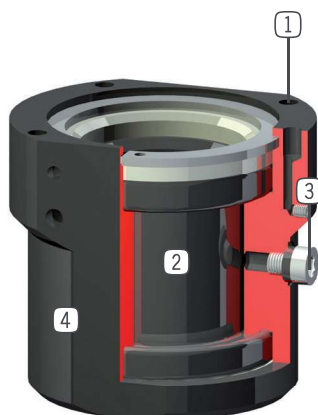
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► BENEFITS IN DETAIL



- ① **Mounting and positioning**
- ② **Drive**
 - direct via rubber membrane
- ③ **Energy supply**
 - possible from several sides
- ④ **Robust, lightweight housing**
 - Hard-coated aluminum alloy

1

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► **Technical Information**

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EXTERNAL GRIPPER

INSTALLATION SIZE RG0-30

1

Installation size RG0-30 / External gripper / pneumatic / Grippers

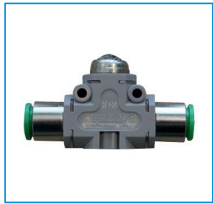
▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



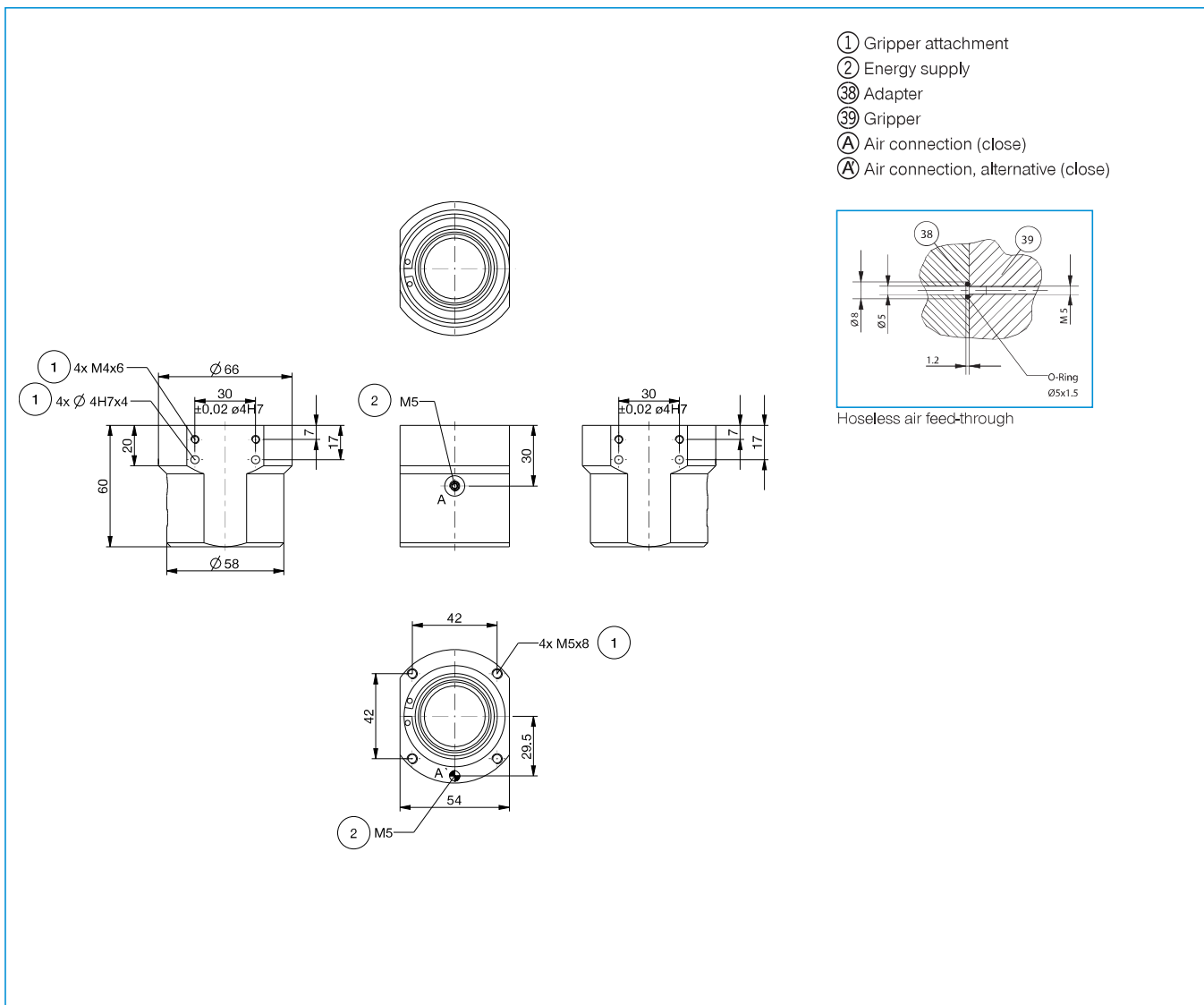
Straight Fittings - Quick Connect Style
GVM5



Quick Exhaust Valve
DEV04

Order no.	RG0-30
Grip diameter min. [mm]	0
Grip diameter max. [mm]	28
Gripping force in closing [N]	350
Closing time [s]	0.1
Opening time [s]	0.1
Operating pressure min. [bar]	1
Operating pressure max. [bar]	3
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	5
Weight [kg]	0.28

*All data measured at 3 bar



EXTERNAL GRIPPER

INSTALLATION SIZE RG10-60

1

Installation size RG10-60 / External gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5

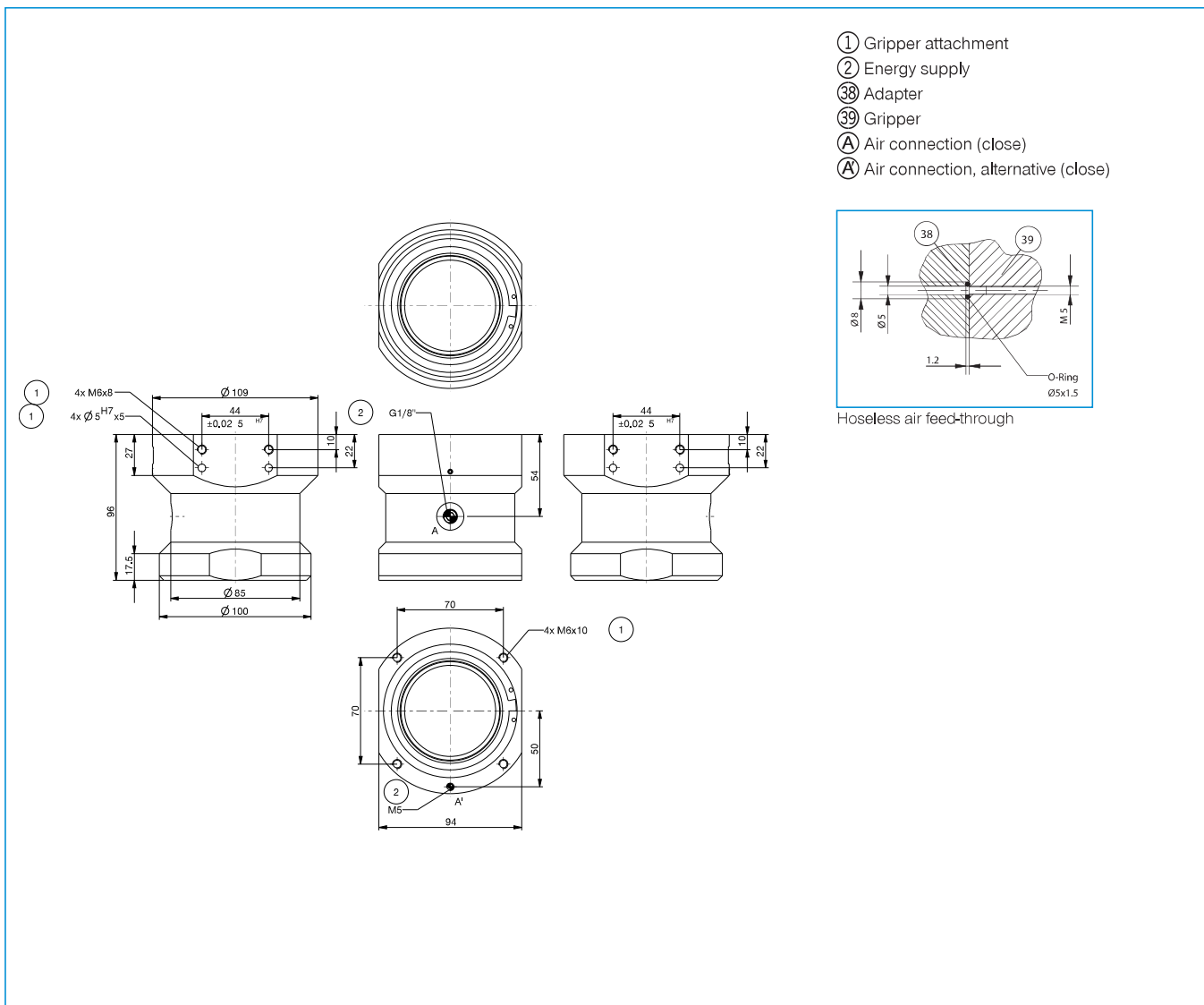


Quick Exhaust Valve

DEV04

Order no.	▶ Technical Data*
Grip diameter min. [mm]	10
Grip diameter max. [mm]	58
Gripping force in closing [N]	1000
Closing time [s]	0.1
Opening time [s]	0.1
Operating pressure min. [bar]	1
Operating pressure max. [bar]	3
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	33
Weight [kg]	0.85

*All data measured at 3 bar



NEEDLE GRIPPER SERIES ST

1

Series ST / Needle gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ Smooth stroke configuration

Customise the stroke for your application with infinitely variable adjustment using an adjusting dial

▶ Workpiece drain function

This function guarantees the quick and reliable deposit of the workpiece and prevents disruptions to the process sequence

▶ Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

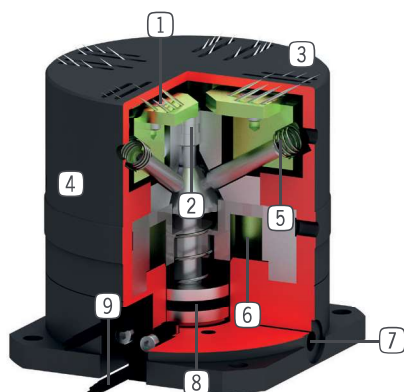
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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► BENEFITS IN DETAIL



- ① **Extending needles**
 - gripping by penetration
- ② **Force transfer**
 - via hardened steel taper pin
- ③ **Needle wiper**
 - helps wiping the workpiece
- ④ **Stroke adjustment**
 - adjustment of the needle stroke
- ⑤ **Integrated spring**
 - for return
- ⑥ **Blow off air connection**
 - to reject the workpiece with air
- ⑦ **Energy supply**
 - possible from several sides (size ST40)
- ⑧ **Drive**
 - single-acting pneumatic cylinder with spring return
- ⑨ **Sensing slot**
 - mounting and positioning of magnetic field sensors

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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NEEDLE GRIPPER

INSTALLATION SIZE ST36

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Straight Fittings - Quick
Connect Style

GVM5



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

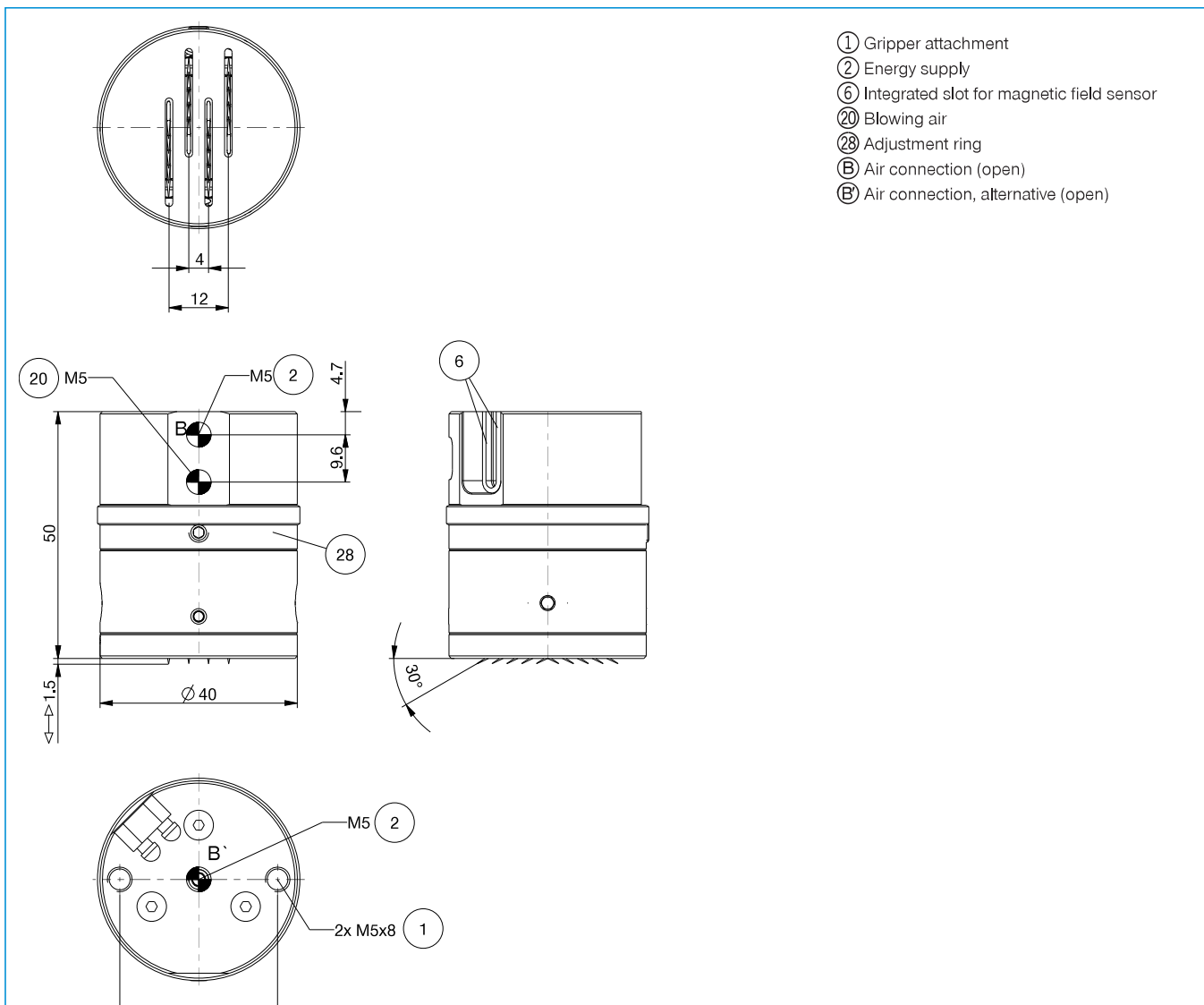


Plug-in connector
customizable Straight -
Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	1.5
Number of needles [Pice]	20
Needle diameter [mm]	0.7
Retract time / Extend time [s]	0.03
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	1
Weight [kg]	0.21

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ⑥ Integrated slot for magnetic field sensor
- ⑳ Blowing air
- ㉘ Adjustment ring
- Ⓑ Air connection (open)
- Ⓑ* Air connection, alternative (open)

NEEDLE GRIPPER

INSTALLATION SIZE ST40

1

Installation size ST40 / Needle gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Straight Fittings - Quick
Connect Style

GVM5



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

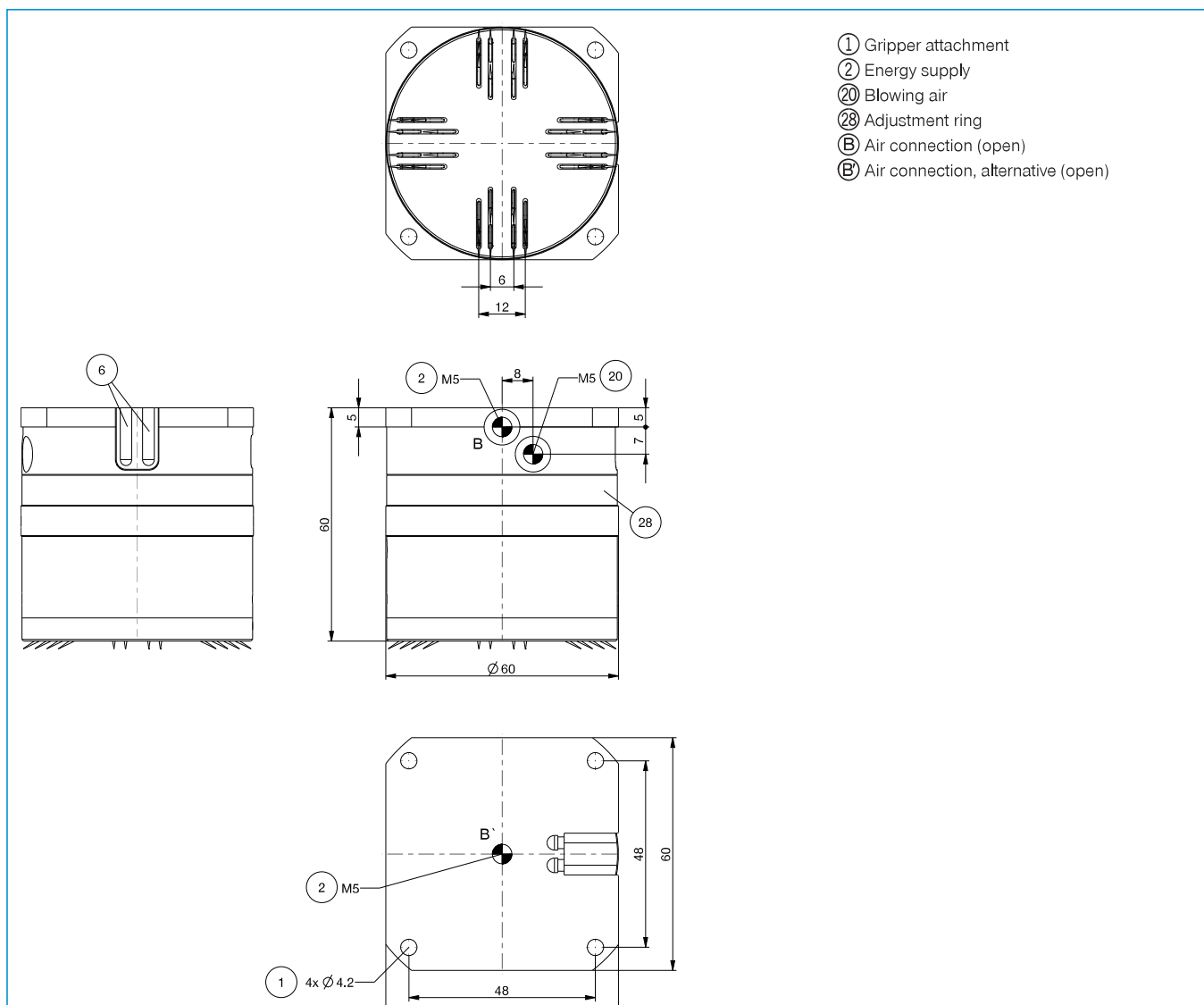


Plug-in connector
customizable Straight -
Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	2
Number of needles [Pice]	40
Needle diameter [mm]	0.7
Retract time / Extend time [s]	0.03
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	3
Weight [kg]	0.49

*All data measured at 6 bar



NEEDLE GRIPPER SERIES SCH

1

Series SCH / Needle gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ **Smooth stroke configuration**

Adjust the needle stroke individually and smoothly via the direct needle setting

▶ **Flat structure**

Due to its compact design, you save precious space in your machine

▶ **Query about magnetic field sensor technology**

Detecting the end position allows you to have faster cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

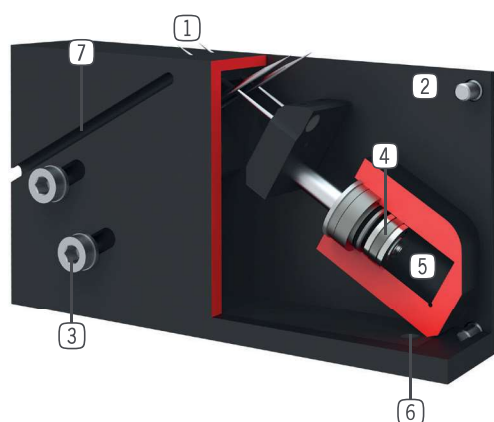
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► BENEFITS IN DETAIL



- ① **Extending needles**
 - gripping by penetration
- ② **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ③ **Stroke adjustment**
 - by shifting in an elongated hole
- ④ **Drive**
 - two double-acting pneumatic cylinders
- ⑤ **Energy supply**
- ⑥ **Mounting and positioning**
- ⑦ **Sensing slot**
 - mounting and positioning of magnetic field sensors

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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NEEDLE GRIPPER

INSTALLATION SIZE SCH20

1

Installation size SCH20 / Needle gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Spare needle

CNAD00200



Pneumatic face hose

PYA

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

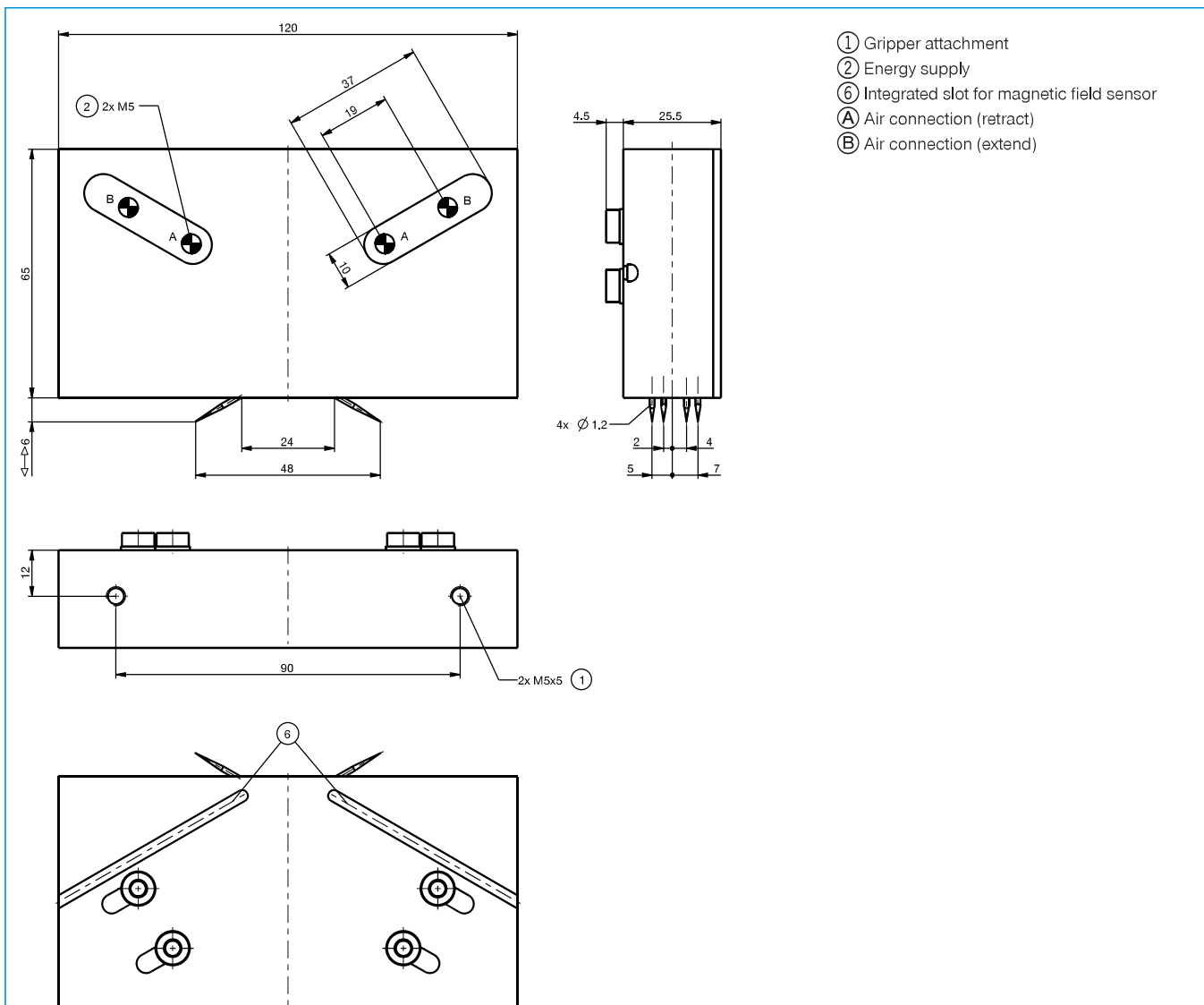


Plug-in connector customiz-
able Straight - Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	6
Number of needles [Pice]	4
Needle diameter [mm]	1.2
Retract time / Extend time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	5
Weight [kg]	0.35

*All data measured at 6 bar



NEEDLE GRIPPER

INSTALLATION SIZE SCH23

1

Installation size SCH23 / Needle gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Spare needle

CNAD00230



Pneumatic face hose

PYA

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

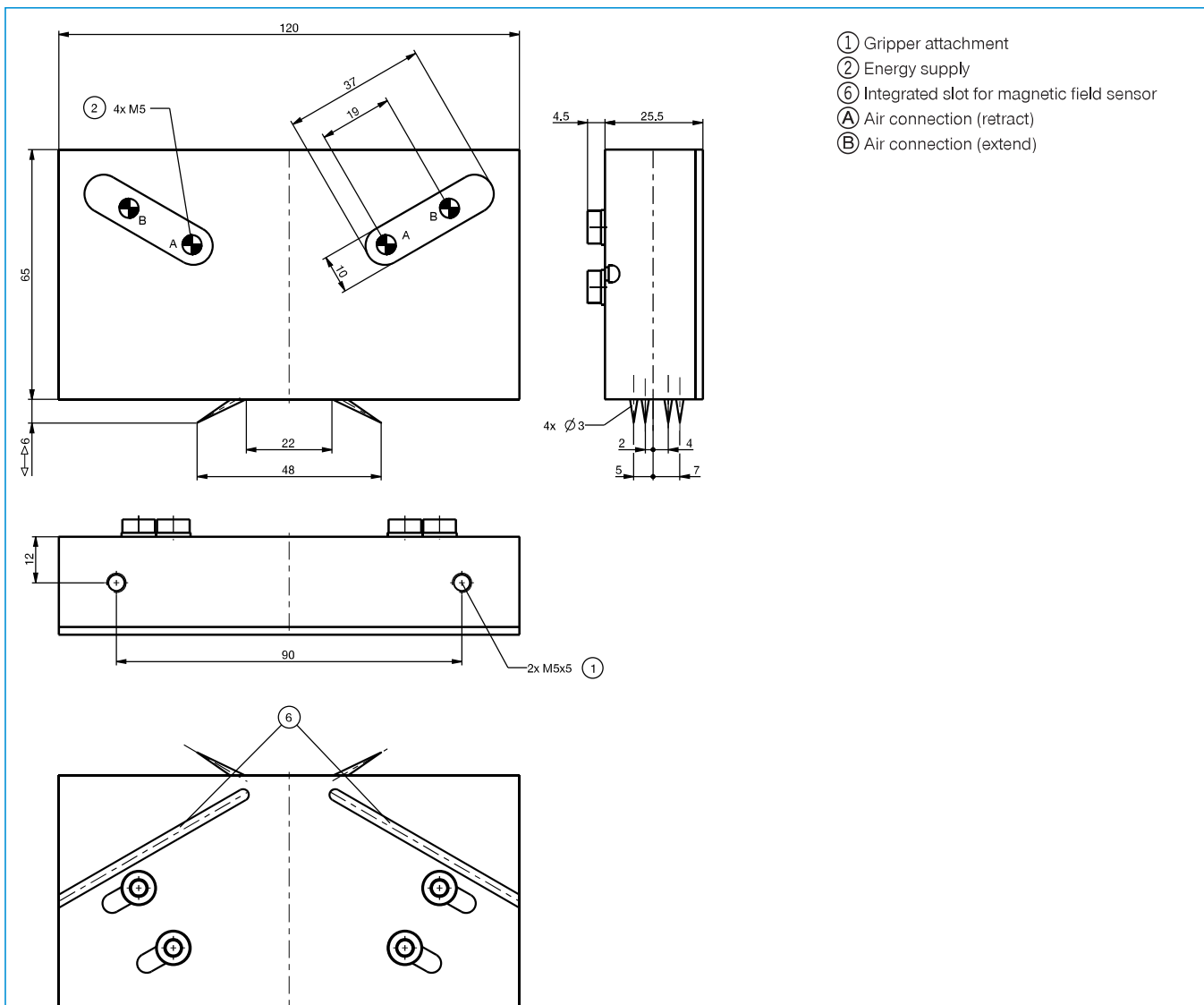


Plug-in connector customiz-
able Straight - Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	6
Number of needles [Pice]	4
Needle diameter [mm]	3
Retract time / Extend time [s]	0.2
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	5
Weight [kg]	0.37

*All data measured at 6 bar



O-RING ASSEMBLY GRIPPER, OUTER SERIES GS

▶ PRODUCT ADVANTAGES



▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

▶ Adjustable expanding stroke

Prevents the O-ring from overexpanding and ensures consistent production quality

▶ Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

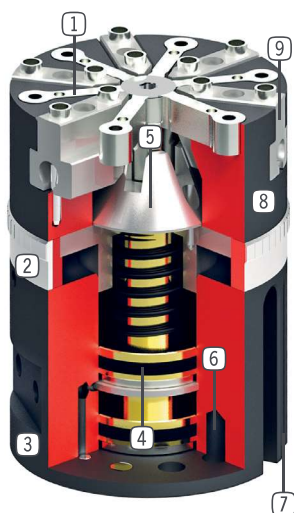
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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► BENEFITS IN DETAIL



- ① **Ejector jaw**
 - to shift off the O-ring
- ② **Stroke adjustment**
 - for adjustment of the spread stroke
- ③ **Energy supply**
 - possible from several sides
- ④ **Drive**
 - two single-acting pneumatic cylinders
- ⑤ **Force transfer**
 - direct via taper
- ⑥ **Mounting and positioning**
 - axial, on the gripper bottom
- ⑦ **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ⑧ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑨ **Gripper jaw**
 - individual gripper finger mounting

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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O-RING ASSEMBLY GRIPPER, OUTER

INSTALLATION SIZE GS65

1

Installation size GS65 / O-ring assembly gripper, outer / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Centering Disc

DST06510

▶ RECOMMENDED ACCESSORIES



Ejector Jaws Aluminium

UB65-3



Expanding Jaws Steel

UB65-4



Mounting block

KB6,5-02



Inductive proximity switch
- Cable 5 m

NJ6,5-E2-01



Inductive proximity switch
- Connector M8

NJ6,5-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



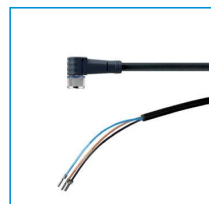
Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500

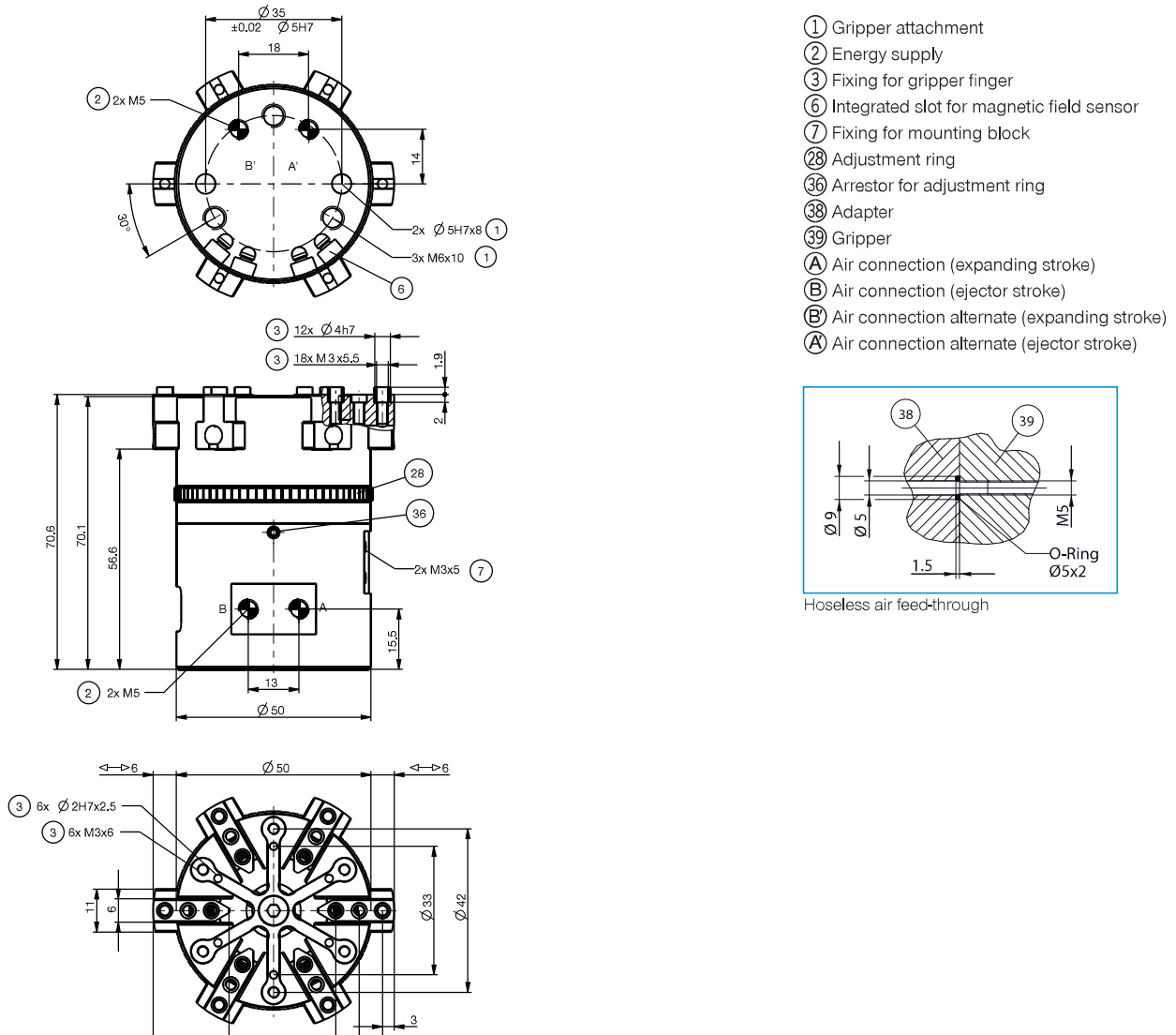


Straight Fittings - Quick
Connect Style

GVM5

Order no.	GS65-B
Opening stroke adjustable per jaw min. [mm]	3
Opening stroke adjustable per jaw max. [mm]	6
Stripping stroke [mm]	5
Opening force [N]	300
Recommended O-ring diameter min. [mm]	4
Recommended O-ring diameter max. [mm]	60
Number of gripping jaws [Quantity]	6
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	0.5

*All data measured at 6 bar



O-RING ASSEMBLY GRIPPER, OUTER INSTALLATION SIZE GS810

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Ejector Jaws Aluminium

UB810-3



Expanding Jaws Steel

UB810-4



Mounting block

KB6,5-02



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500

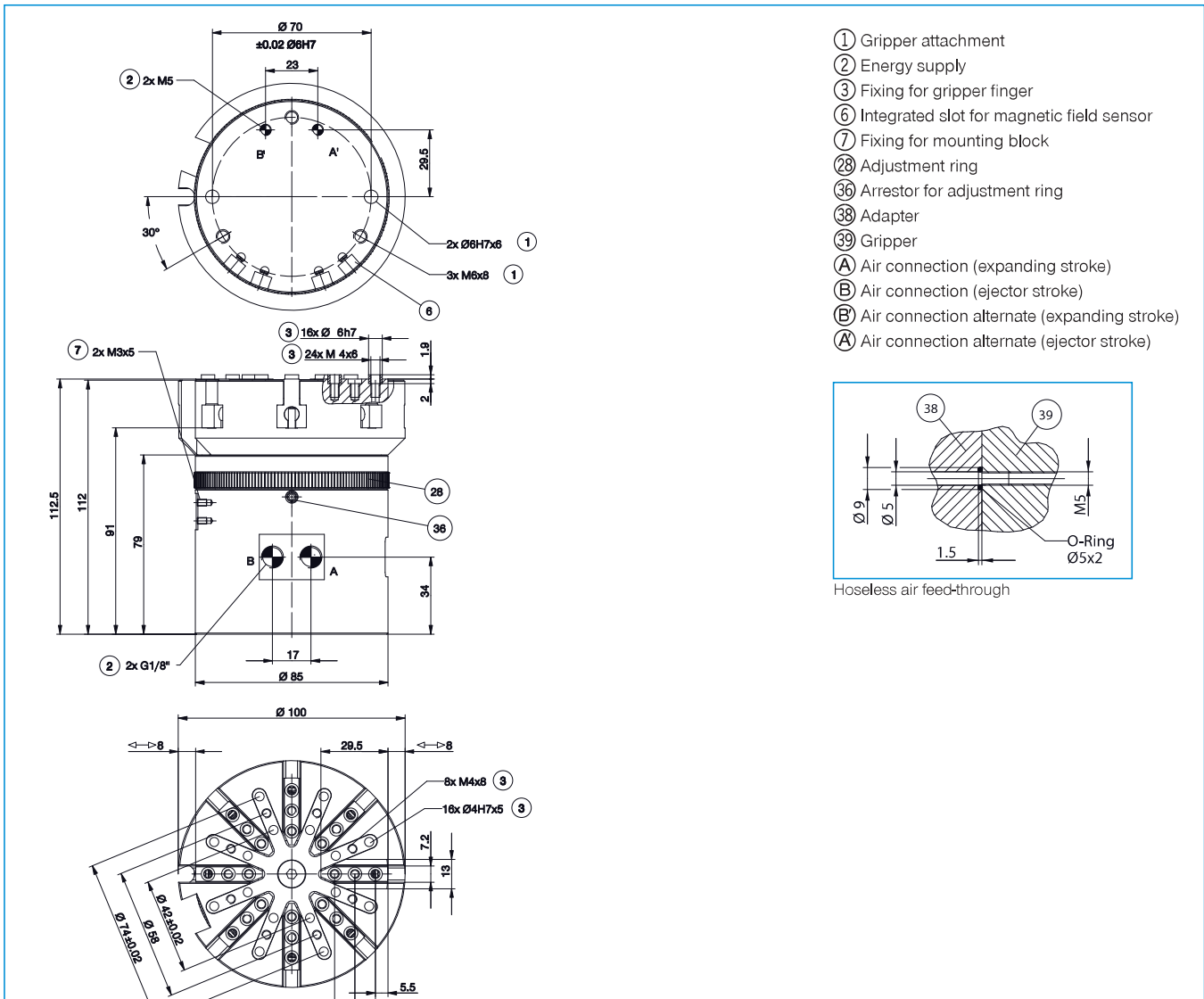


Straight Fittings - Quick
Connect Style

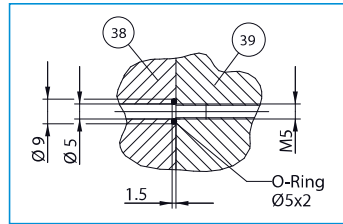
GV1-8X6

Order no.	Technical Data*
Opening stroke adjustable per jaw min. [mm]	4
Opening stroke adjustable per jaw max. [mm]	8
Stripping stroke [mm]	10
Opening force [N]	1200
Recommended O-ring diameter min. [mm]	30
Recommended O-ring diameter max. [mm]	120
Number of gripping jaws [Quantity]	8
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	2.5

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑳ Adjustment ring
- ㉟ Arrestor for adjustment ring
- ㉠ Adapter
- ㉡ Gripper
- Ⓐ Air connection (expanding stroke)
- Ⓑ Air connection (ejector stroke)
- Ⓑ' Air connection alternate (expanding stroke)
- Ⓐ' Air connection alternate (ejector stroke)



Hoseless air feed-through

O-RING ASSEMBLY GRIPPER, OUTER

INSTALLATION SIZE GS1015

1

Installation size GS1015 / O-ring assembly gripper, outer / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST60800

▶ RECOMMENDED ACCESSORIES



Ejector Jaws Aluminium

UB1015-3



Expanding Jaws Steel

UB1015-4



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



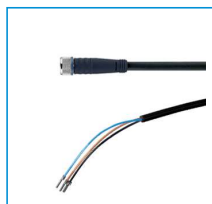
Magnetic field sensor
Angled Cable 5 m

MFS103KHC



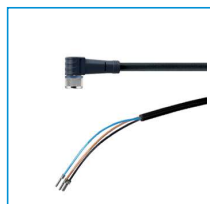
Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GV1-8X8

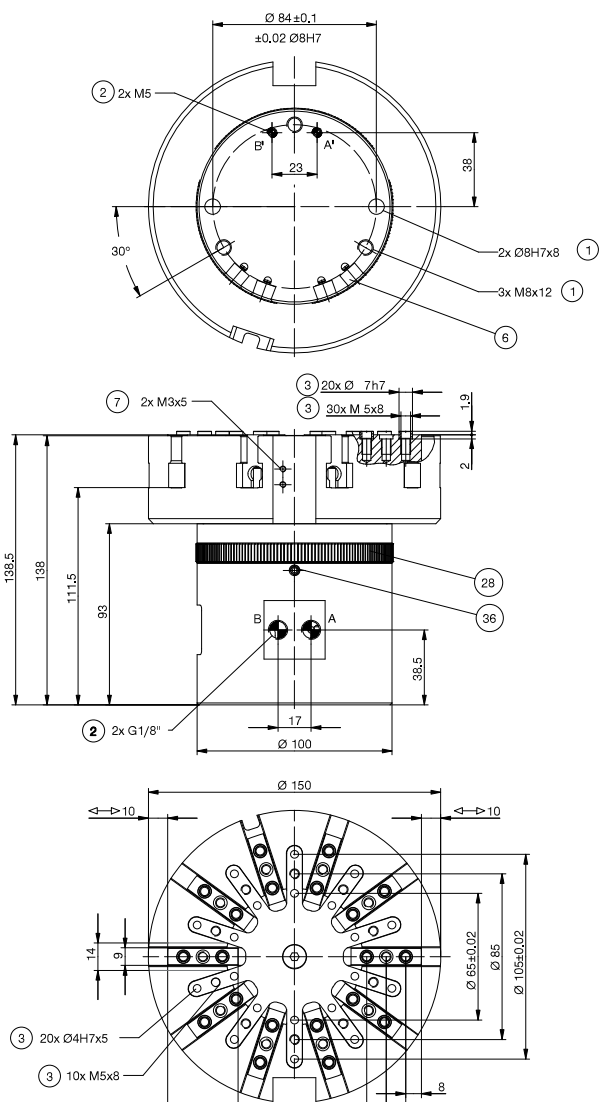


Plug-in connector customiz-
able Straight - Connector M8

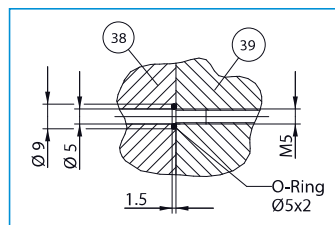
S8-G-3

Order no.	GS1015-B
Opening stroke adjustable per jaw min. [mm]	1.6
Opening stroke adjustable per jaw max. [mm]	10
Stripping stroke [mm]	15
Opening force [N]	1450
Recommended O-ring diameter min. [mm]	40
Recommended O-ring diameter max. [mm]	150
Number of gripping jaws [Quantity]	10
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	5.4

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑳ Adjustment ring
- ㉔ Arrestor for adjustment ring
- ㉘ Adapter
- ㉙ Gripper
- Ⓐ Air connection (expanding stroke)
- Ⓑ Air connection (ejector stroke)
- Ⓑ' Air connection alternate (expanding stroke)
- Ⓐ' Air connection alternate (ejector stroke)



Hoseless air feed-through

O-RING ASSEMBLY GRIPPER, INNER SERIES GSI

1

Series GSI / O-ring assembly gripper, inner / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ Concentration on the essentials

Only pay for what you need - individual standard gripper specific to O-ring inside assembly

▶ Adjustable expanding stroke

Prevents the O-ring from overexpanding and ensures consistent production quality

▶ Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

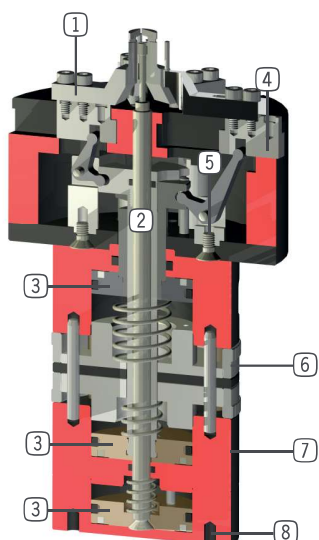
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► BENEFITS IN DETAIL



- 1 Spread jaws**
 - to position the O-ring in the groove of the workpiece
- 2 Ejector (piston rod)**
 - to remove the O-ring
- 3 Driven by three single-acting pneumatic cylinders**
 - drive for grabber jaws
 - drive for spread jaws
 - drive for ejector
- 4 Grabber jaw**
 - to grab the O-ring
- 5 Force transfer**
 - via lever and connecting rod
- 6 Stroke adjustment on grabber jaws**
 - prevents overstretching of O-ring during assembly
- 7 Stroke on spread jaws**
 - adjustable to fit bore diameter of workpiece
- 8 Mounting and positioning**
 - axial, on the gripper bottom

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

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O-RING ASSEMBLY GRIPPER, INNER

INSTALLATION SIZE GSI206

1

Installation size GSI206 / O-ring assembly gripper, inner / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Centering Disc

DST06510

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3

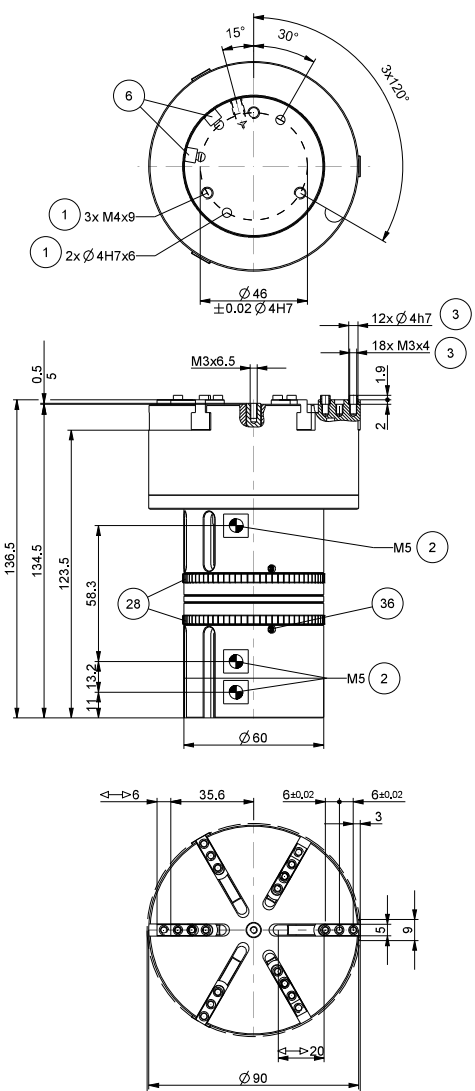


Plug-in connector customiz-
able Straight - Connector M12

S12-G-3

Order no.	Technical Data*
Stroke adjustable per jaw min. [mm]	6
Stroke adjustable per jaw max. [mm]	20
Opening stroke adjustable per jaw min. [mm]	1
Opening stroke adjustable per jaw max. [mm]	6
Stripping stroke [mm]	5
Opening force [N]	240
Possible O-ring diameter at cord size 1 [mm]	11-45
Possible O-ring diameter at cord size 2 [mm]	20-130
Possible O-ring diameter at cord size 3 [mm]	32-130
Possible O-ring diameter at cord size 4 [mm]	42-100
Number of gripping jaws [Quantity]	6
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	1.1

* All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ②⑧ Adjustment ring
- ③⑥ Arrestor for adjustment ring

MAGNETIC GRIPPER

SERIES HM1000

▶ PRODUCT ADVANTAGES



▶ **Secure hold during EMERGENCY STOP**

Magnets attached to springs ensure your workpiece remains secure, even during a drop in pressure

▶ **Contact plate that increases friction value**

The replaceable O-ring ensures the high dynamics in your application and protection of your workpiece

▶ **Residual holding force < 1N**

The demagnetised contact surface safeguards the process reliability of dropping off your workpiece

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

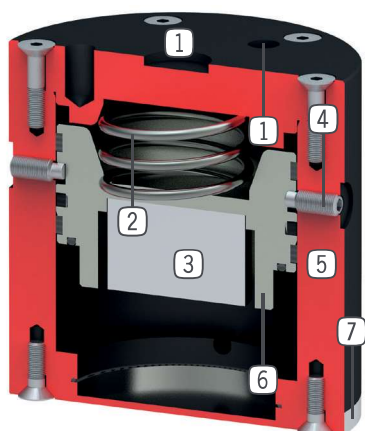
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► BENEFITS IN DETAIL



- ① **Mounting and positioning**
 - via centering sleeve and thread
- ② **Spring**
 - for piston return
 - secured holding even in drop pressure
- ③ **Permanent magnet**
 - requires no power supply
 - high holding forces
- ④ **Transport safeguarding**
- ⑤ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑥ **single-acting pneumatic cylinders**
 - only one pneumatic line required
 - Spring return
- ⑦ **Contact plate**
 - easy replaceable
 - embedded O-ring to increase the friction coefficient

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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MAGNETIC GRIPPER

INSTALLATION SIZE HM1030

1

Installation size HM1030 / Magnetic gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Locking nut

C043910002

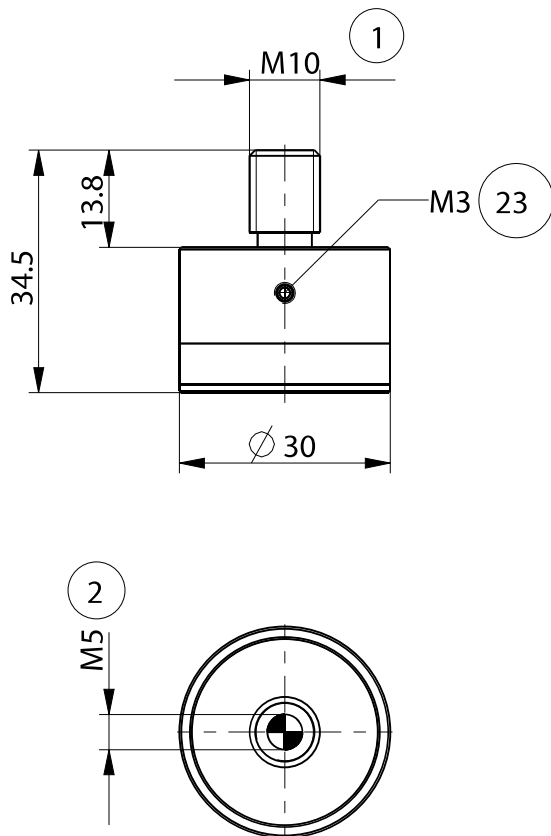
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style

GVM5

Order no.	Technical Data
Max. adhesive force [N]	27
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	3.5
Weight [kg]	0.06



- ① Gripper attachment
- ② Energy supply
- ②③ Filter

MAGNETIC GRIPPER

INSTALLATION SIZE HM1046

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Ball Joints

KG40



Ball Joints Steel

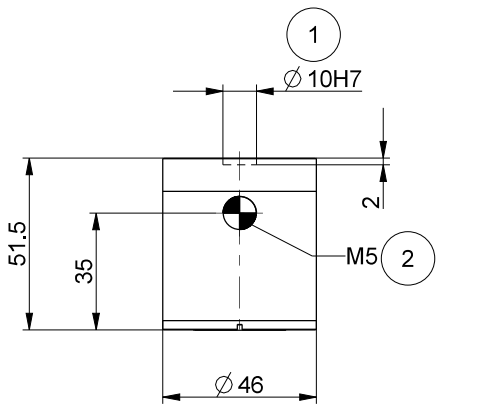
KG40ST



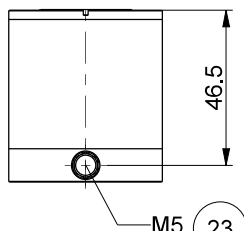
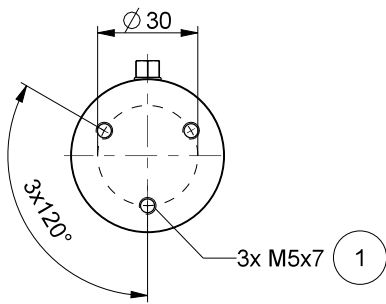
Straight Fittings - Quick Connect Style

GVM5

Order no.	Technical Data
Max. adhesive force [N]	65
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	9
Weight [kg]	0.28



- ① Gripper attachment
- ② Energy supply
- ③ Filter



MAGNETIC GRIPPER

INSTALLATION SIZE HM1078

1

Installation size HM1078 / Magnetic gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Set Screw

C091505129



Dummy plug

CPNEU00536

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE15H7X4



Ball Joints

KG60



Ball Joints Steel

KG60ST



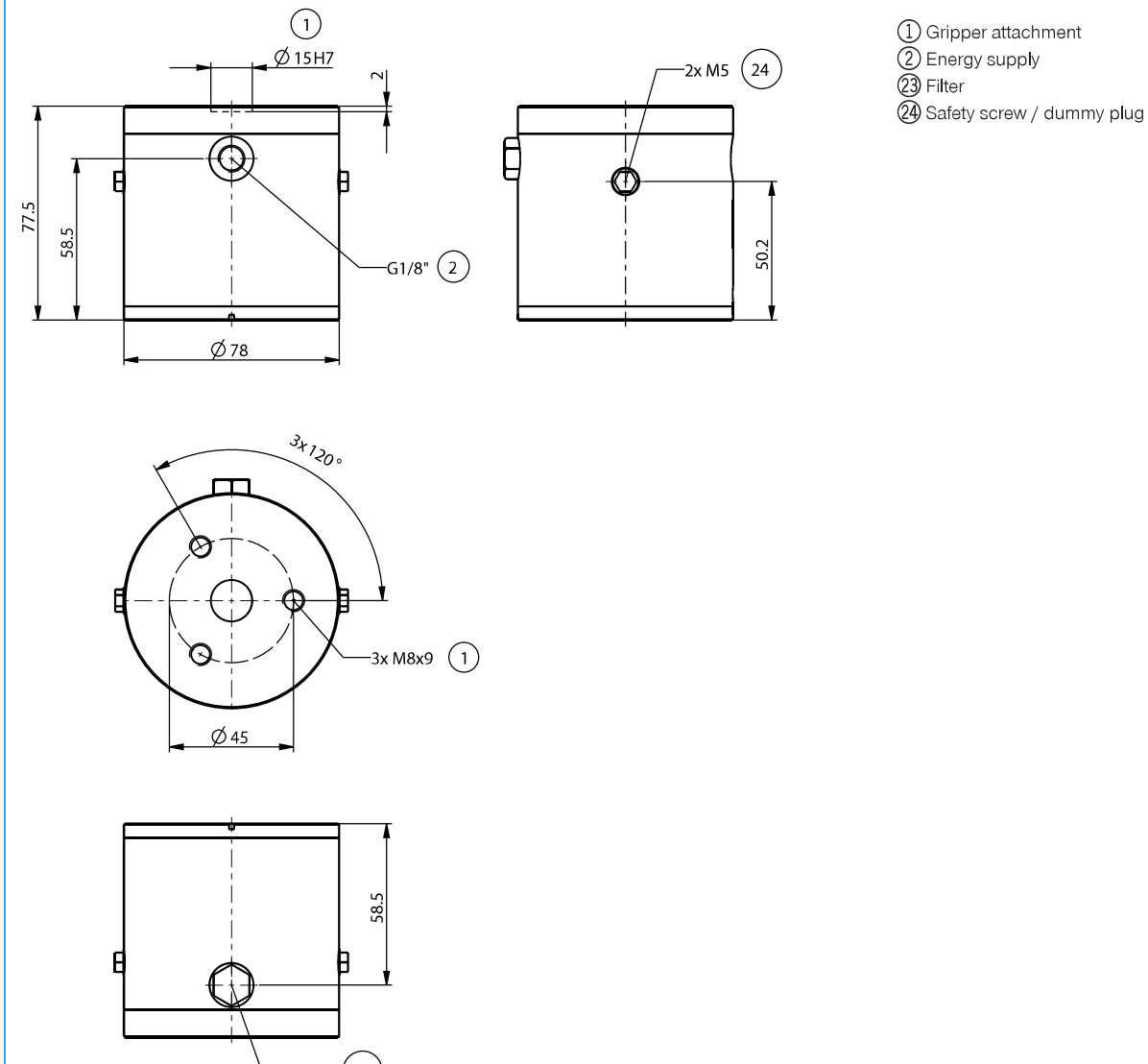
Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	HM1078NC
Max. adhesive force [N]	220
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	75
Weight [kg]	1.2

► **Technical Data**

HM1078NC



MAGNETIC GRIPPER

INSTALLATION SIZE HM1097

1

Installation size HM1097 / Magnetic gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Set Screw

C091505129



Dummy plug

CPNEU00536

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE20H7X4



Ball Joints

KG80



Ball Joints Steel

KG80ST



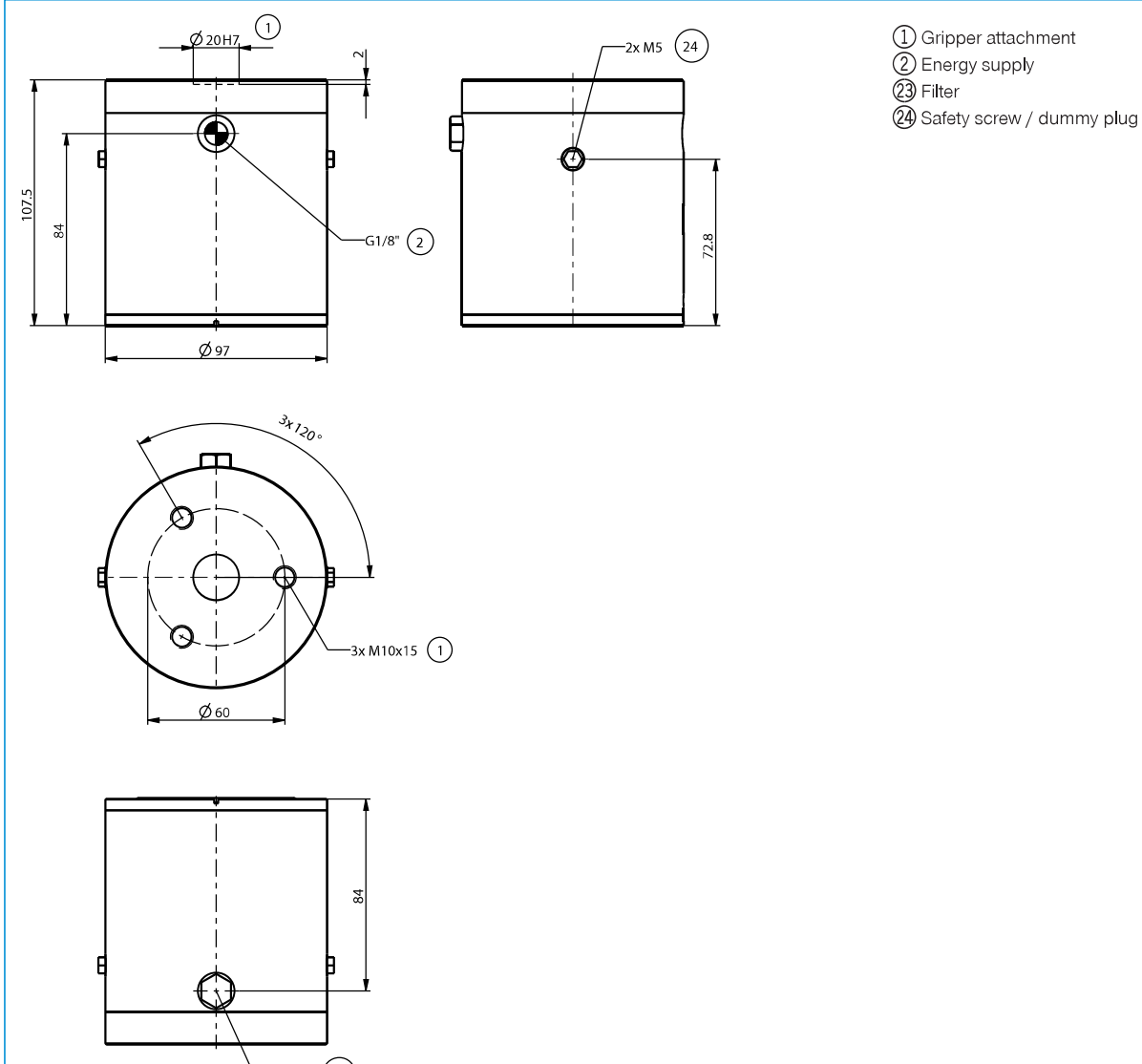
Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	HM1097NC
Max. adhesive force [N]	450
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	250
Weight [kg]	2.2

► **Technical Data**

HM1097NC



GRIPPERS FOR SPECIFIC TASKS

OVERVIEW OF SERIES



▶ ELECTRICAL



Series GEN9100

516



Series HEM1000

520

NEEDLE GRIPPER

SERIES GEN9100

▶ PRODUCT ADVANTAGES



▶ **Plug and play**

Reduce programming and assembly costs to a minimum with the integrated control system and the 2 position query

▶ **Saving energy with pulse control**

You only have to supply current briefly when retracting and extending the needle; no energy is required when transporting the workpiece

▶ **Smooth stroke configuration**

The needle stroke is displayed via a scale. You can smoothly adjust the needle stroke to fit your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION

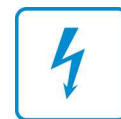


▶ **Our products love the challenge!**

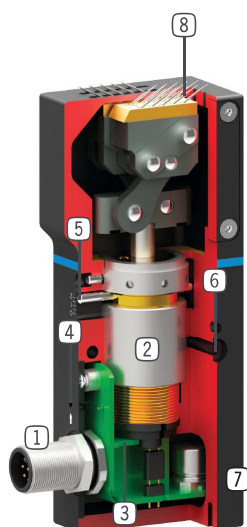
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Energy supply**
 - standardized interface M12 round connector
- ② **Drive**
 - via Pot magnet and coil bobbin according to the coil system principle
 - energy consumption only at impulse <25 ms
- ③ **Position sensing**
 - integrated Hallsensor
 - 2 positions monitorable
- ④ **Status control**
 - optical LED position display
 - Needles retracted, needles extended
- ⑤ **Stroke adjustment**
 - infinitely variable
 - Can be read off the scale
- ⑥ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑦ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑧ **Extending needles**
 - gripping by penetration

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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NEEDLE GRIPPER

INSTALLATION SIZE GEN9102

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Plug-in Connector
Straight Cable 10 m -
Female M12
KAG1000B8

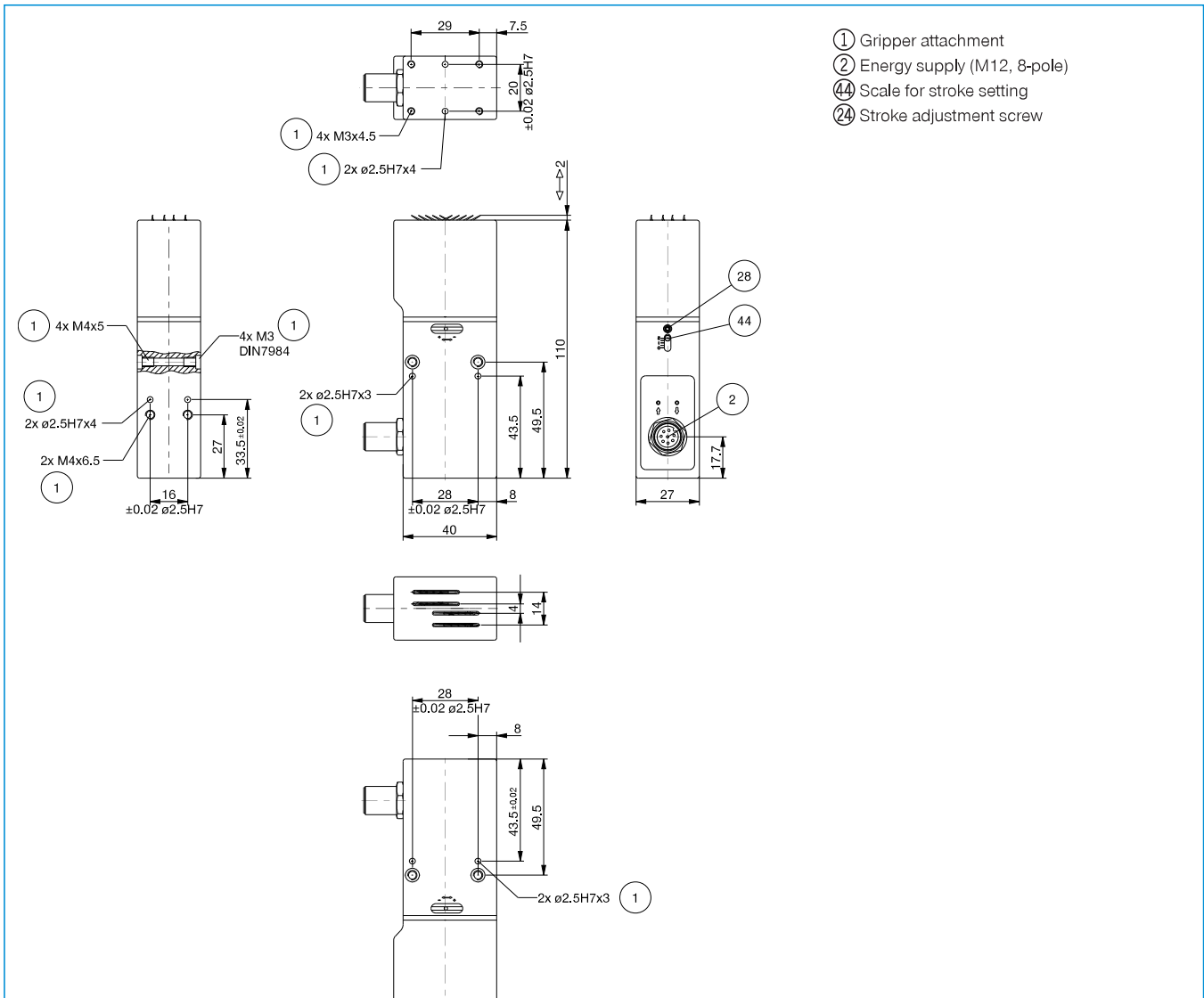


Plug-in Connector Angled
Cable 10 m - Female M12
KAW1000B8



Busbox
see page 875
ZUBBOX9000-01

Order no.	Technical Data
	GEN9102
Pulse time in extend [ms]	25
Pulse time in retract [ms]	20
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	2
Current consumption in a stand-by mode [A]	0.02
Current consumption per pulse max. [A]	5
Cycle count max. [cycle/min]	150
Permanent operation cycle count max. [cycle/min]	120
Operating time [ms]	<28
Operating temperature min. [°C]	10
Operating temperature max. [°C]	+50
Debounce time [ms]	10
Noise level [db(A)]	<70
Repetition accuracy +/- [mm]	0.1
Protection to IEC 60529	IP50
Weight [kg]	0.33



MAGNETIC GRIPPER

SERIES HEM1000

▶ PRODUCT ADVANTAGES



▶ **Plug and play**

Reduce your installation effort to a minimum by using the single cable solution and the simple control system via plus and minus buttons

▶ **Saving energy with pulse control**

You only have to supply current briefly when releasing the workpiece; no energy is required when transporting the workpiece

▶ **Secure hold during EMERGENCY STOP**

The magnet provides full holding force when it is not powered, preventing the loss of the workpiece if there is a voltage drop

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

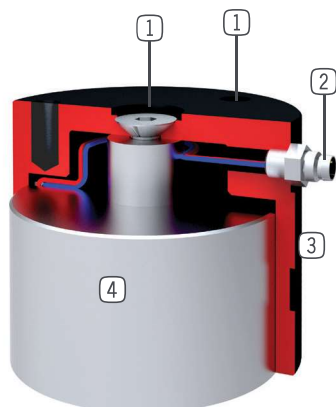
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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► BENEFITS IN DETAIL



- ① **Mounting and positioning**
 - via centering sleeve and thread
- ② **Energy supply**
 - standardized interface M8 round plug
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Holding solenoid**
 - with electrical switch off

► TERMS

Adhesive surface:	Complete contact surface of the gripper
Adhesive force:	refers to 100% coating of the adhesive surface, zero clearance, status at operating temperature on ST37 steel and compliance with the minimum coating thickness
Minimum coating thickness:	Minimum thickness of the workpiece to be gripped to reach the max. adhesive force
Remaining adhesive force:	max. 3% of the adhesive force
On-time:	the time in which current is supplied to the gripper
Break time:	the time in which no current is supplied to the gripper
Cycle time:	On-time + break time

MAGNETIC GRIPPER

INSTALLATION SIZE HEM1030

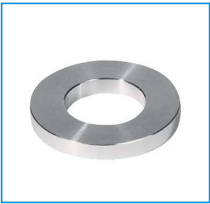
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Installation size HEM1030 / Magnetic gripper / electric / Grippers

▶ PRODUCT SPECIFICATIONS

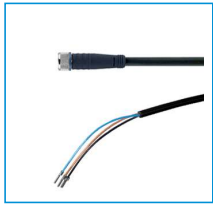


▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

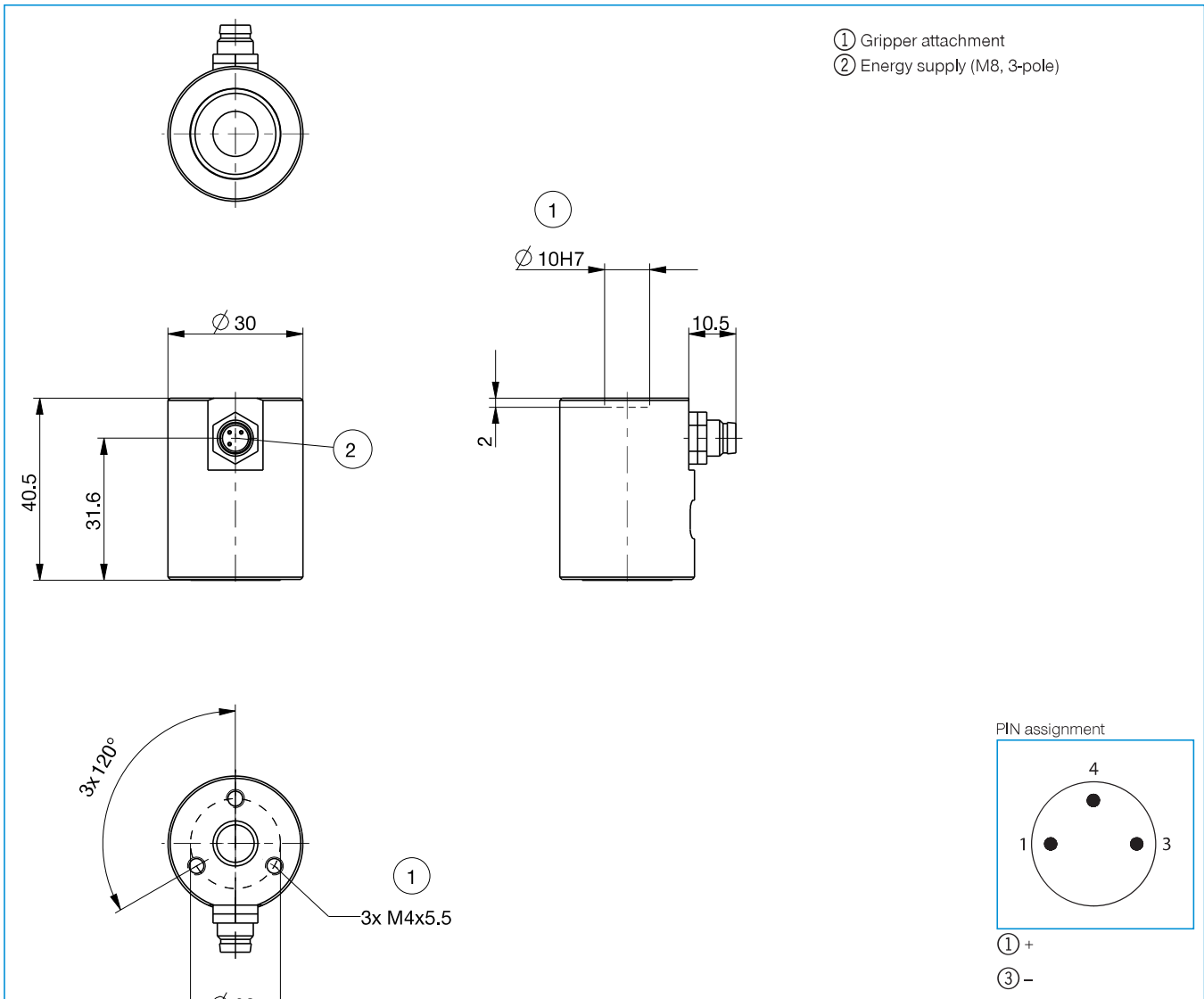


Plug-in connector
customizable Straight -
Connector M8

S8-G-3

Order no.	▶ Technical Data
	HEM1030NC
Max. adhesive force [N]*	40
Minimum coating thickness [mm]	2.5
Max. residual retention force [N]	1.2
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	3.6
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	0.09

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%



MAGNETIC GRIPPER

INSTALLATION SIZE HEM1042

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6

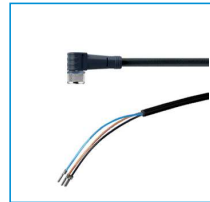


Ball Joints

KG40



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



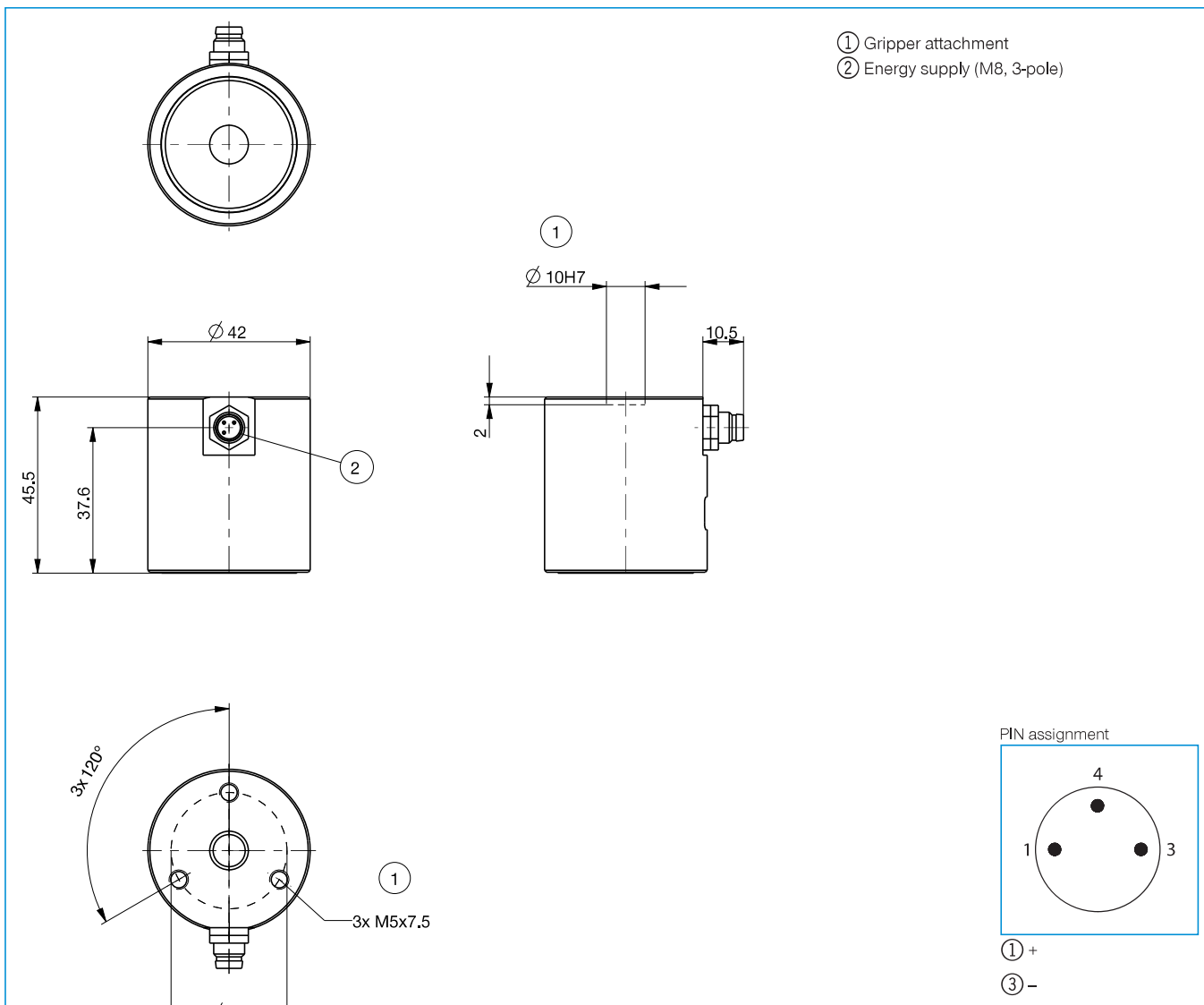
Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Plug-in Connector Customiz-
able Angled - Connector M8
S8-W-3

Order no.	Technical Data
	HEM1042NC
Max. adhesive force [N]*	160
Minimum coating thickness [mm]	3
Max. residual retention force [N]	4.8
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	4.6
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	0.28

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%



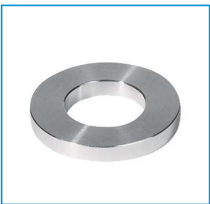
MAGNETIC GRIPPER

INSTALLATION SIZE HEM1062

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6

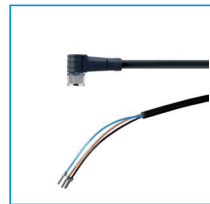


Ball Joints

KG60



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



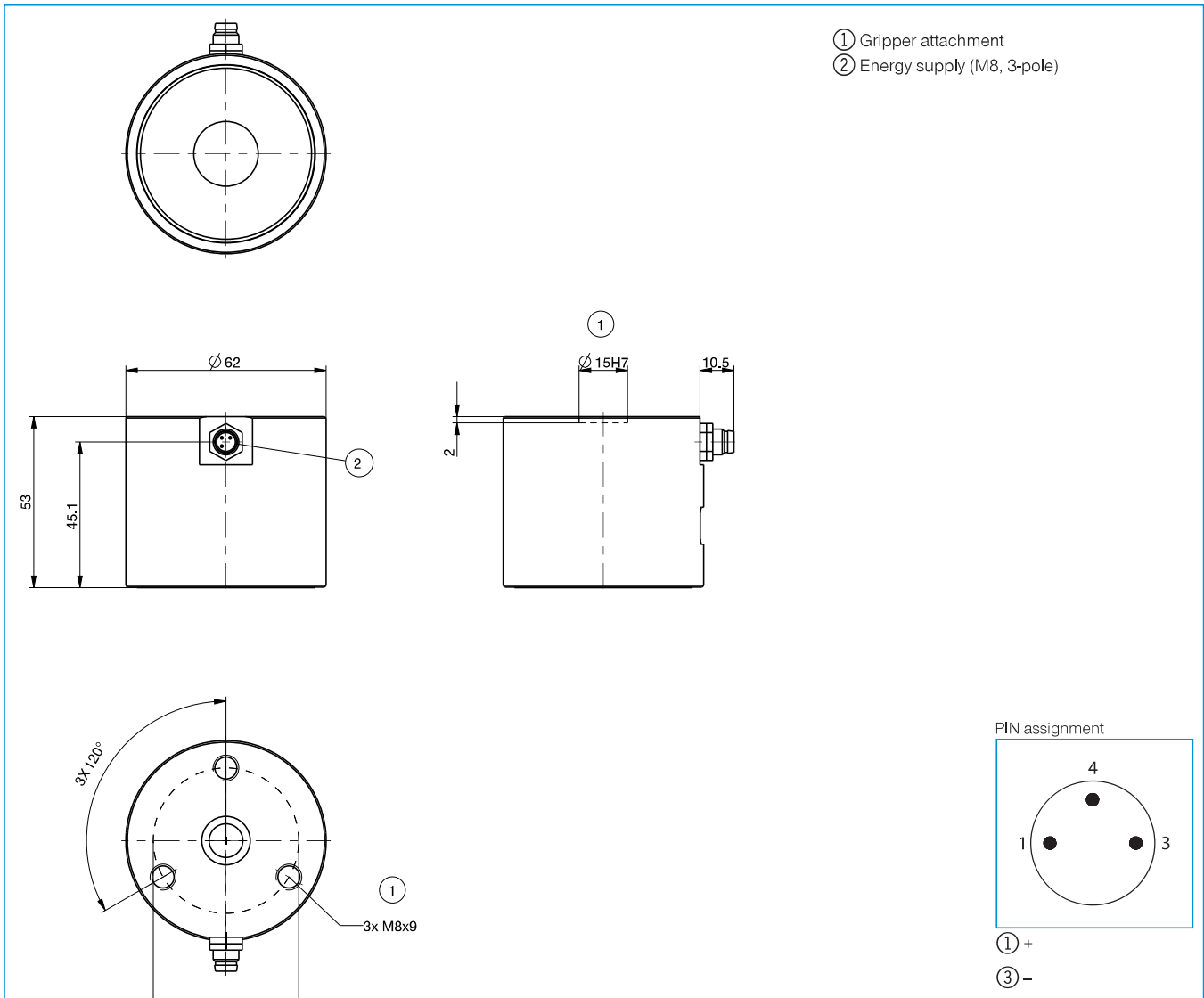
Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Plug-in Connector Customiz-
able Angled - Connector M8
S8-W-3

Order no.	▶ Technical Data
	HEM1062NC
Max. adhesive force [N]*	420
Minimum coating thickness [mm]	4.5
Max. residual retention force [N]	12.6
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	9
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	0.66

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%



MAGNETIC GRIPPER

INSTALLATION SIZE HEM1080

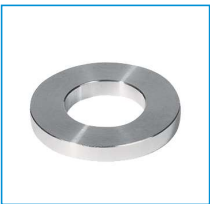
1

Installation size HEM1080 / Magnetic gripper / electric / Grippers

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Ball Joints

KG80



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Plug-in Connector Customiz-
able Angled - Connector M8
S8-W-3

Order no.	▶ Technical Data
	HEM1080NC
Max. adhesive force [N]*	720
Minimum coating thickness [mm]	6
Max. residual retention force [N]	21.6
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	13.3
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	1.3

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%

