



► PNEUMATIC



Series GPP1000

14



Series MGP800

24



Series GP

42



Series GP400

56



Series GP200

76



Series GPP5000

86

2-JAW PARALLEL GRIPPERS

SERIES GPP1000

▶ PRODUCT ADVANTAGES



“Cost-effective”

- ▶ Parallel gripper with an unbeatable price/performance ratio
- ▶ Gripper jaw set and fixation material included
- ▶ Can be configured for spring opening or spring closing
- ▶ One installation size, three strokes: 4, 8 and 16 mm per gripper jaw
- ▶ Gripping force of 100 N
- ▶ Service life of up to 2 million cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

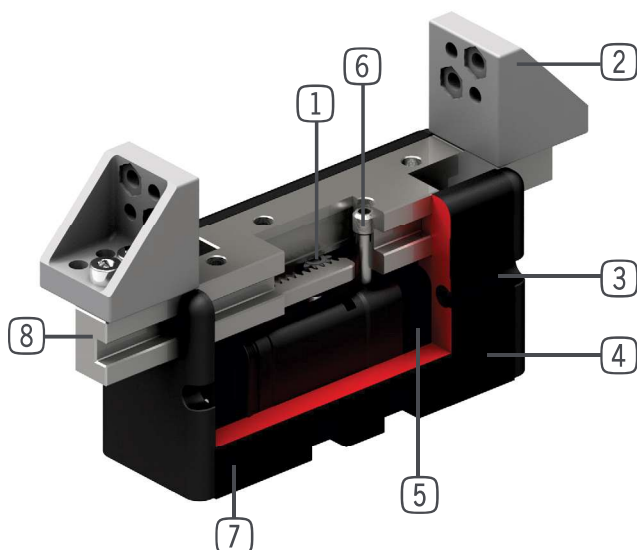
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- 1 Synchronization**
 - via rack and pinion
- 2 Intermediate jaws**
 - incl. mounting material
 - included in scope of delivery
- 3 Sensing**
 - mounting and positioning of magnetic field sensors
- 4 Lightweight housing**
 - Hard-coated aluminum alloy
- 5 Single-acting pneumatic cylinder**
 - Spring return
- 6 Jaw slave screw**
 - for changing the gripper's direction of force
- 7 Energy supply**
 - possible from several sides
- 8 Gripper jaw**
 - for connecting the intermediate jaw or an individual gripper finger via centering sleeves

► SERIES CHARACTERISTICS



Number of installation sizes	1
Stroke per jaw	4 mm - 16 mm
Gripping force	100 N
Weight	0,16 kg - 0,20 kg
AP class	1



Magnetic field sensor

IP 30

IP30



2 million maintenance-free cycles (max.)

2-JAW PARALLEL GRIPPERS

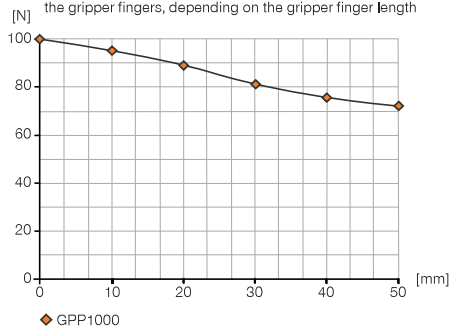
INSTALLATION SIZE GPP1104

▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Steel top jaws Plastic top jaws

Mr [Nm]	4	1
Mx [Nm]	4	2
My [Nm]	2	1
Fa [N]	400	100

▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material

ZUB1100

▶ RECOMMENDED ACCESSORIES



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

MFS1000SKHR



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

MFS1000SKHR-NPN



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



MCS Adapter plate

AP1100

▶ RECOMMENDED ACCESSORY MCS ADAPTER PLATE



Straight Fittings - Quick
Connect Style

GV1-4X6

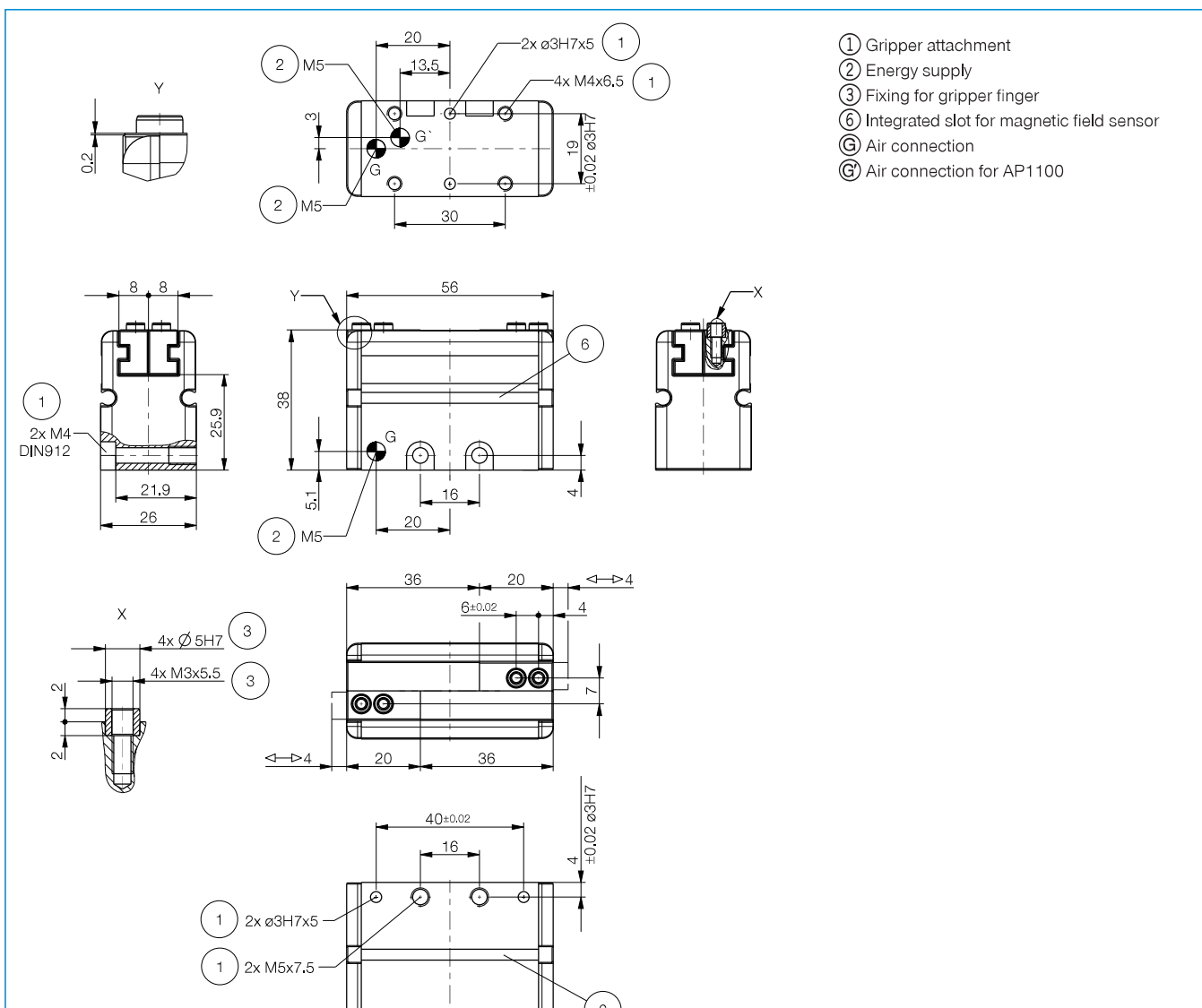


Angled Fittings - Quick
Connect Style

WV1-4X6

Order no.	Technical Data*
Stroke per jaw [mm]	4
Grip force in grip direction min. [N]	100
Travel time in gripping direction [ms]	20
Reset time using spring [ms]	30
Permissible weight per jaw max [kg]	0.10
Repetition accuracy +/- [mm]	0.05
Operating pressure [bar]	2 ... 6
Operating temperature [°C]	5 ... +60
Air volume per cycle [cm³]	1.4
Protection to IEC 60529	IP30
Weight [kg]	0.16

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

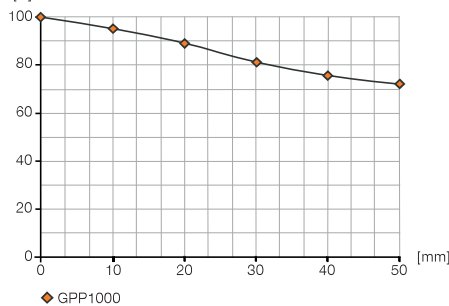
INSTALLATION SIZE GPP1108

▶ PRODUCT SPECIFICATIONS



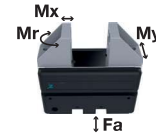
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Steel top jaws Plastic top jaws

Mr [Nm]	4	1
Mx [Nm]	4	2
My [Nm]	2	1
Fa [N]	400	100

▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material

ZUB1100

▶ RECOMMENDED ACCESSORIES



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

MFS1000SKHR



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

MFS1000SKHR-NPN



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



MCS Adapter plate

AP1100

▶ RECOMMENDED ACCESSORY MCS ADAPTER PLATE



Straight Fittings - Quick
Connect Style

GV1-4X6

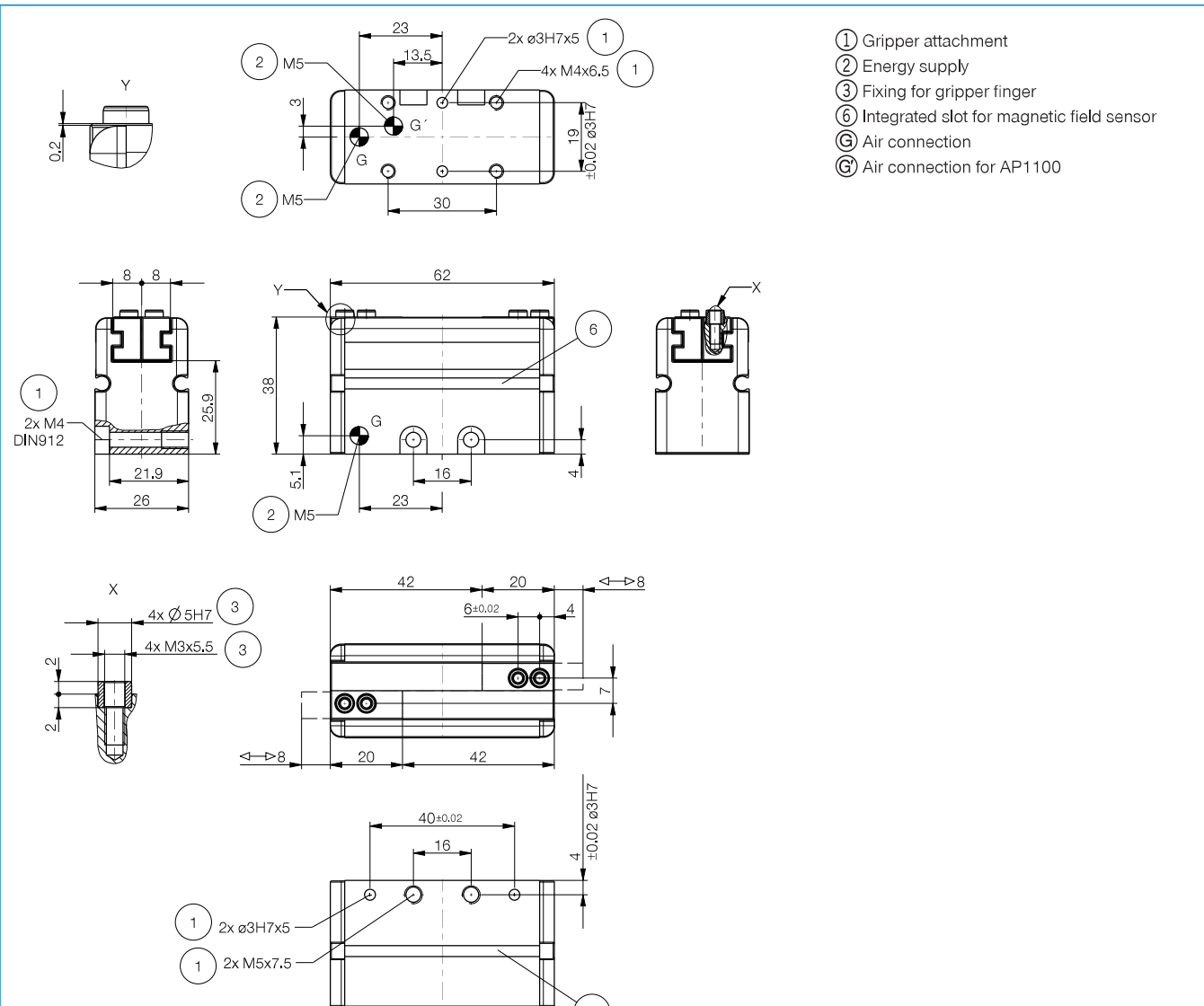


Angled Fittings - Quick
Connect Style

WV1-4X6

Order no.	▶ Technical Data*
Stroke per jaw [mm]	8
Grip force in grip direction min. [N]	100
Travel time in gripping direction [ms]	25
Reset time using spring [ms]	40
Permissible weight per jaw max [kg]	0.10
Repetition accuracy +/- [mm]	0.05
Operating pressure [bar]	2 ... 6
Operating temperature [°C]	5 ... +60
Air volume per cycle [cm³]	2.7
Protection to IEC 60529	IP30
Weight [kg]	0.17

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

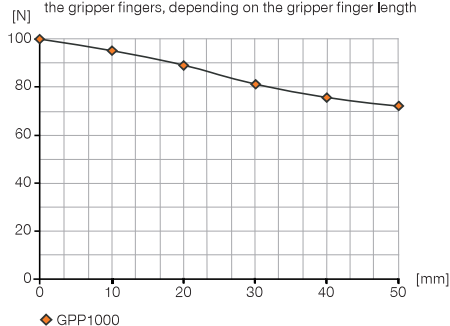
INSTALLATION SIZE GPP1116

▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Steel top jaws Plastic top jaws

Mr [Nm]	4	1
Mx [Nm]	4	2
My [Nm]	2	1
Fa [N]	400	100

▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material

ZUB1100

▶ RECOMMENDED ACCESSORIES



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

MFS1000SKHR



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

MFS1000SKHR-NPN



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



MCS Adapter plate

AP1100

▶ RECOMMENDED ACCESSORY MCS ADAPTER PLATE



Straight Fittings - Quick Connect Style

GV1-4X6

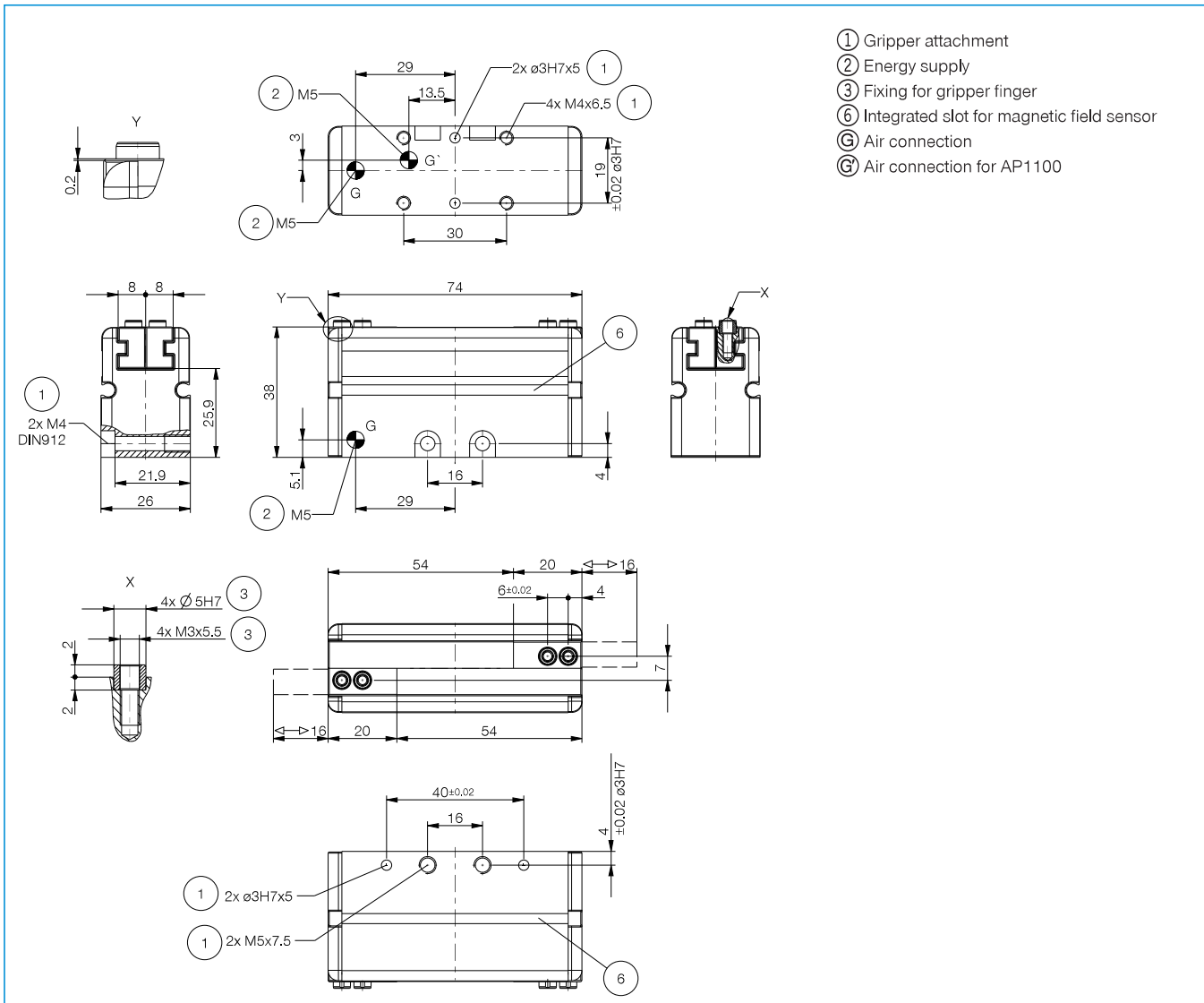


Angled Fittings - Quick Connect Style

WV1-4X6

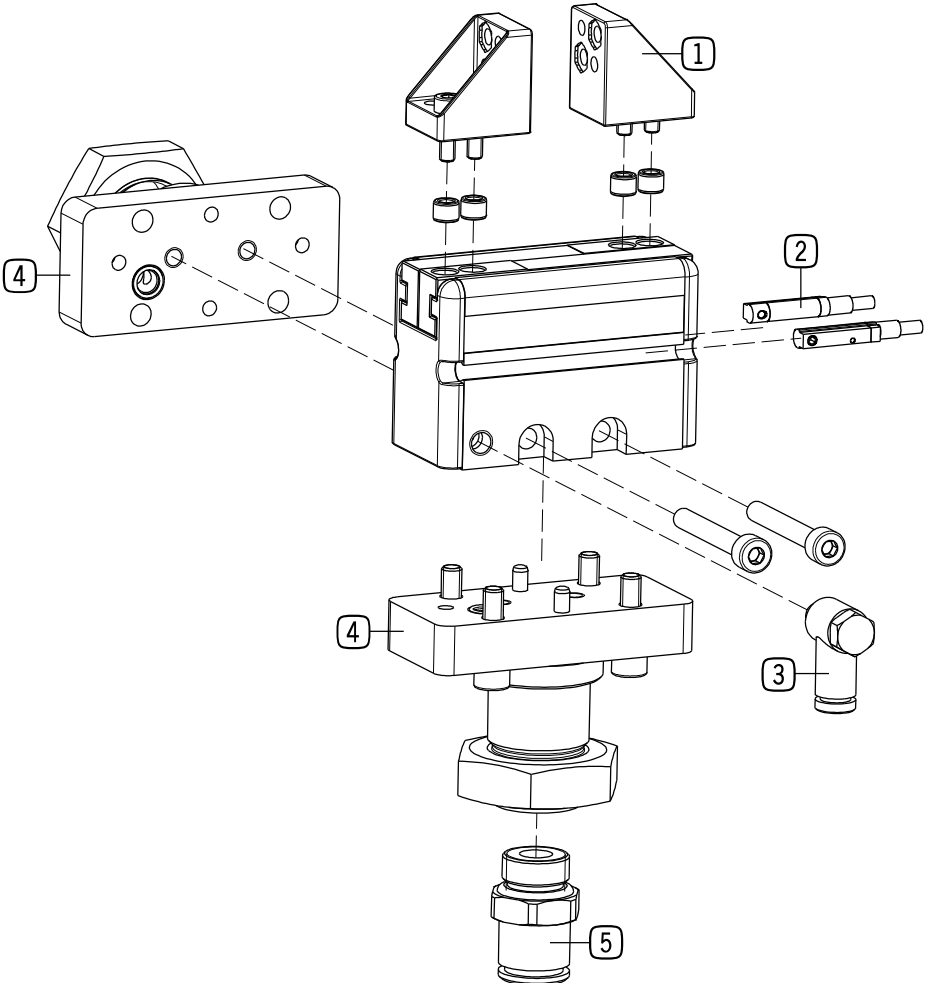
Order no.	Technical Data*
Stroke per jaw [mm]	16
Grip force in grip direction min. [N]	100
Travel time in gripping direction [ms]	30
Reset time using spring [ms]	100
Permissible weight per jaw max [kg]	0.10
Repetition accuracy +/- [mm]	0.05
Operating pressure [bar]	2 ... 6
Operating temperature [°C]	5 ... +60
Air volume per cycle [cm³]	5.6
Protection to IEC 60529	IP30
Weight [kg]	0.20

*All data measured at 6 bar

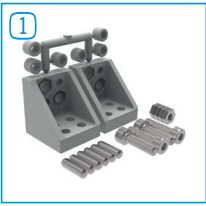


2-JAW PARALLEL GRIPPERS

SERIES GPP1000



▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material
ZUB1100

▶ RECOMMENDED ACCESSORIES



PNP Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS1000SKHR



NPN Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS1000SKHR-NPN



Straight Fittings - Quick
Connect Style
GVM5



Angled Fittings - Quick
Connect Style
WVM5



MCS Adapter plate
AP1100

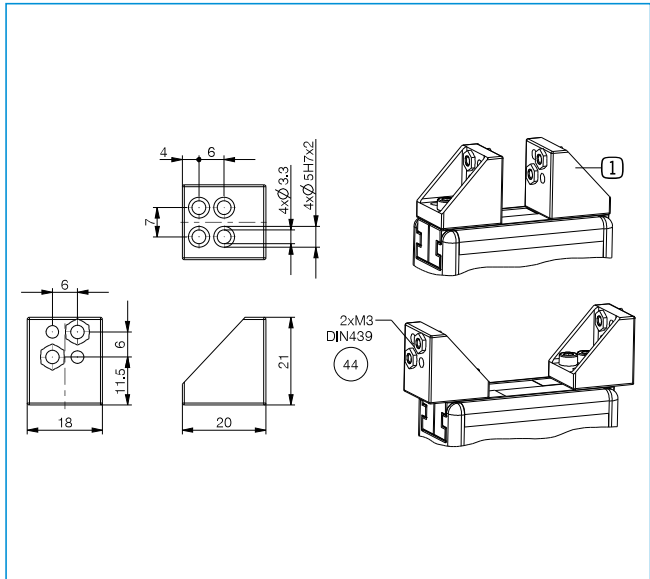
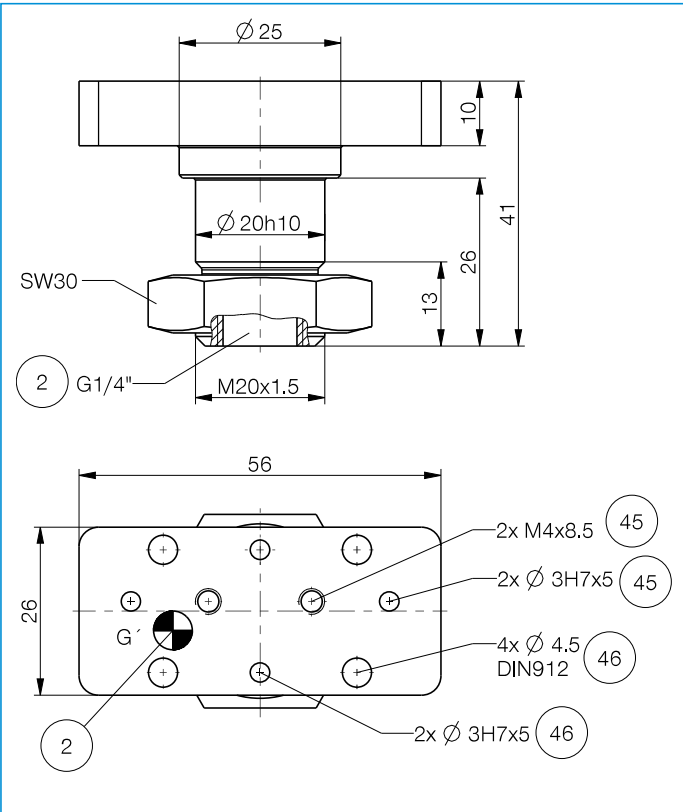


Straight Fittings - Quick
Connect Style
GV1-4X6



Angled Fittings - Quick
Connect Style
WV1-4X6

▶ TECHNICAL DRAWINGS ACCESSORIES

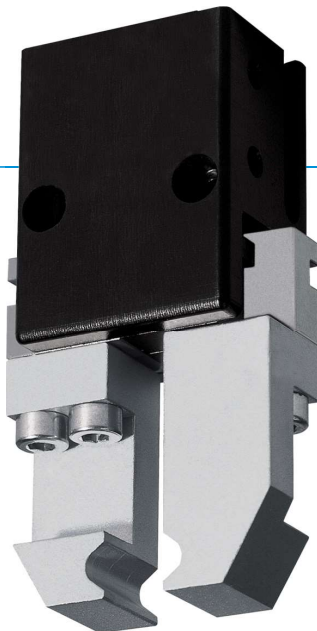


- ② Energy supply
- ④④ Fixing for gripper finger
- ④⑤ Horizontal mounting
- ④⑥ Vertical mounting
- ⓐ Gripper air connection

2-JAW PARALLEL GRIPPERS

SERIES MGP800

▶ PRODUCT ADVANTAGES



“The powerful”

▶ **Over 40% more powerful than the benchmark**

Optimisation of weight and force reduces your application costs since all components can have a smaller scale

▶ **Gripper jaws up to 50% longer than the benchmark**

The highest force and torque measurement enables flexible use for maximum dynamics

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ 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

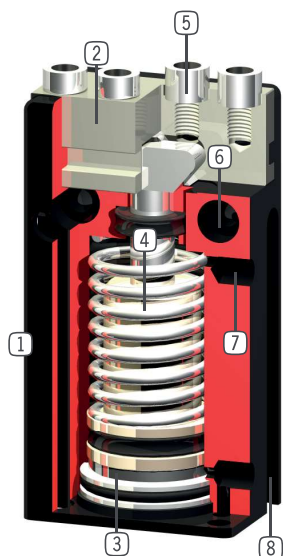
HOW TO ORDER CORRECTLY

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

Order no.	MGP803N	<input type="checkbox"/>		
For external gripping, self-locking, spring closing		C		



► BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ② **Gripper jaw**
 - individual gripper finger mounting
- ③ **Position sensing**
 - permanent magnet for direct monitoring of piston movement
- ④ **Integrated gripping force safety device**
 - spring integrated into cylinder as energy storage (from size 803 upwards)
- ⑤ **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ⑥ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑦ **Energy supply**
 - possible from several sides
- ⑧ **Sensing slot**
 - mounting and positioning of magnetic field sensors

► SERIES CHARACTERISTICS



Number of installation sizes	8
Stroke per jaw	1 mm - 12 mm
Gripping force	6 N - 400 N
Weight	0,008 kg - 0,46 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



IP40



Magnetic field sensor

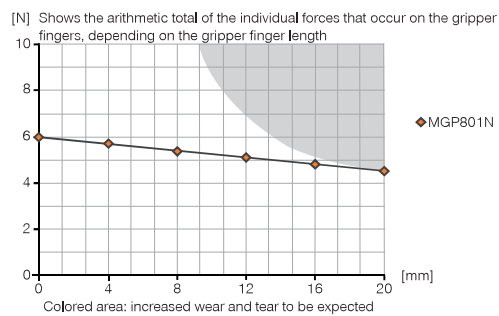
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP801

▶ PRODUCT SPECIFICATIONS

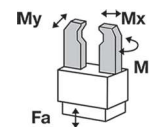


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1
Mx [Nm]	2
My [Nm]	1
Fa [N]	54

▶ INCLUDED IN DELIVERY



Centering Disc

DST80100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3

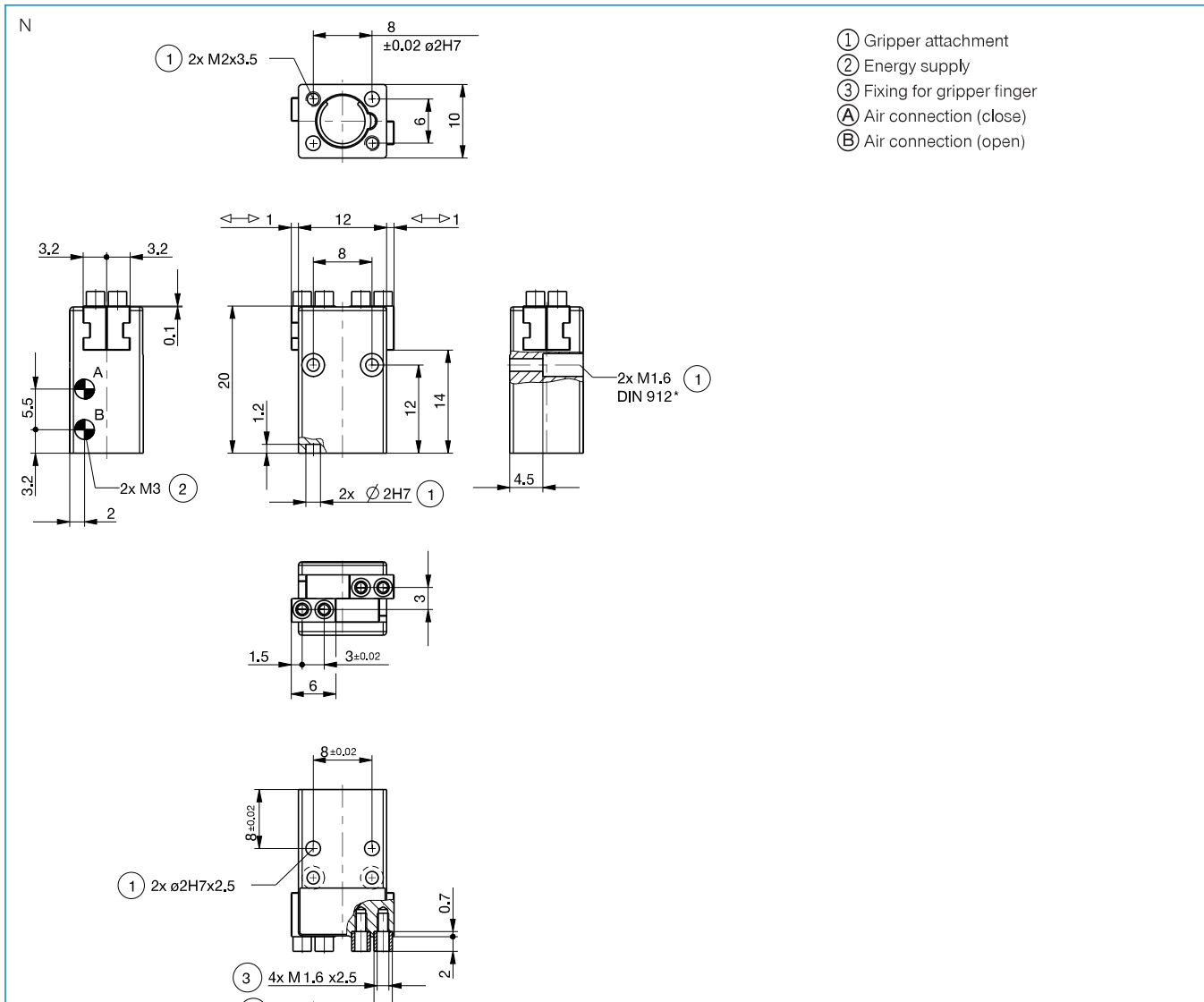


Quick Exhaust Valve

DEV04

Order no.	Technical Data*
Stroke per jaw [mm]	1
Gripping force in closing [N]	6
Gripping force in opening [N]	8
Gripping force secured by spring min. [N]	
Closing time [s]	0,01
Opening time [s]	0,01
Repetition accuracy +/- [mm]	0,025
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]	0,09
Weight [kg]	0,008

*All data measured at 6 bar



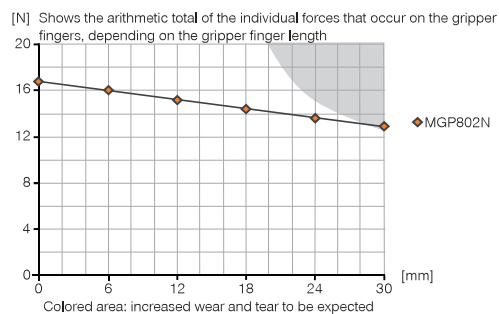
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP802

▶ PRODUCT SPECIFICATIONS

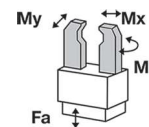


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1
Mx [Nm]	3
My [Nm]	2
Fa [N]	90

▶ INCLUDED IN DELIVERY



Centering Disc

DST80200

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3

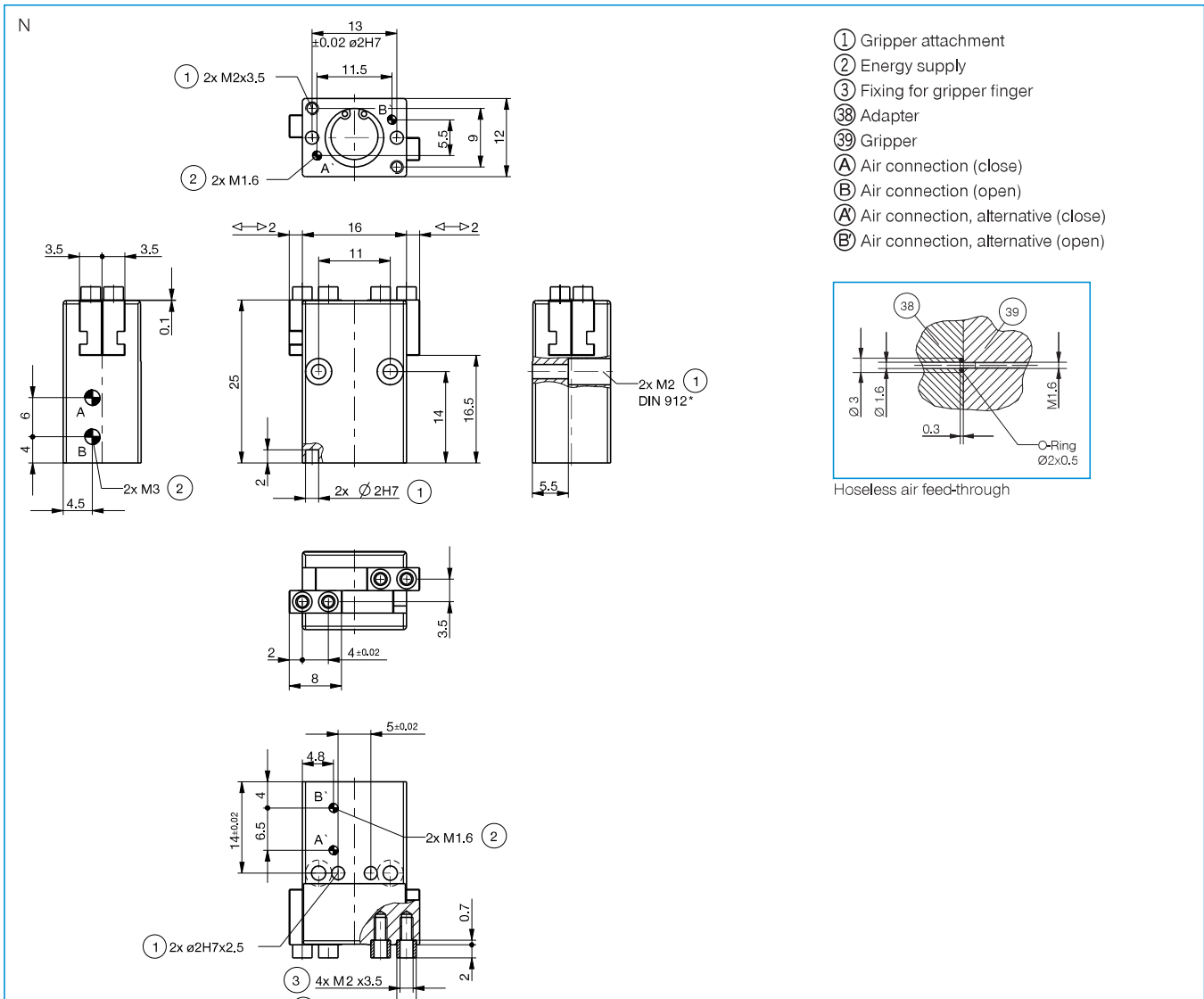


Quick Exhaust Valve

DEV04

Order no.	Technical Data*
Stroke per jaw [mm]	2
Gripping force in closing [N]	16
Gripping force in opening [N]	19
Gripping force secured by spring min. [N]	
Closing time [s]	0,01
Opening time [s]	0,01
Repetition accuracy +/- [mm]	0,025
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]	0,26
Weight [kg]	0,016

*All data measured at 6 bar



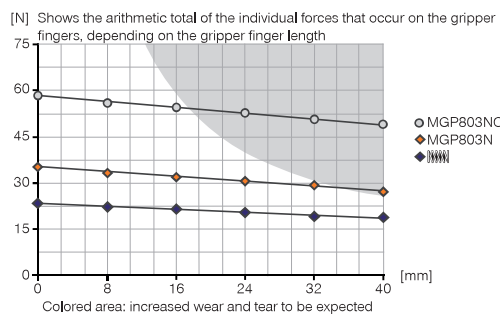
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP803

▶ PRODUCT SPECIFICATIONS

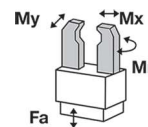


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2
Mx [Nm]	5
My [Nm]	2
Fa [N]	140

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



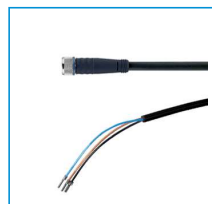
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Barb
Style Connection
GVM3



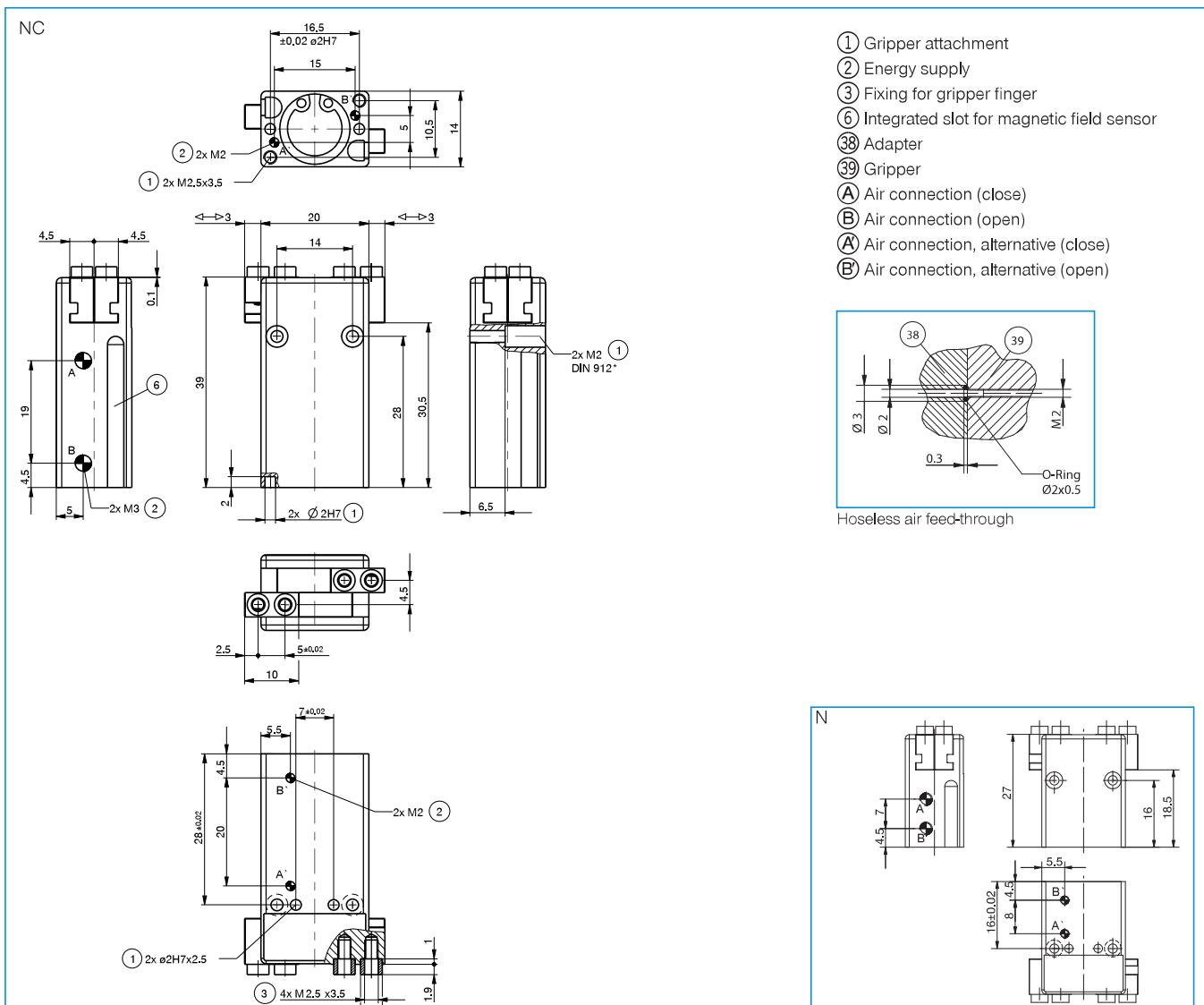
Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP803N	MGP803NC
Stroke per jaw [mm]	3	3
Gripping force in closing [N]	35	55
Gripping force in opening [N]	40	
Gripping force secured by spring min. [N]		20
Closing time [s]	0.01	0.01
Opening time [s]	0.01	0.03
Repetition accuracy +/- [mm]	0.025	0.025
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.8	1.1
Weight [kg]	0.025	0.035

*All data measured at 6 bar



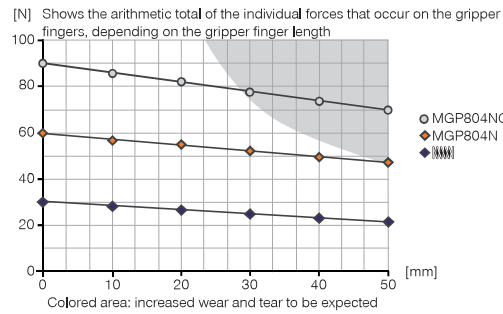
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP804

▶ PRODUCT SPECIFICATIONS

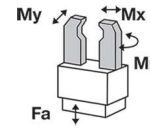


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	3
Mx [Nm]	7
My [Nm]	3
Fa [N]	230

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



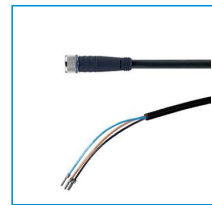
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Barb
Style Connection
GVM3



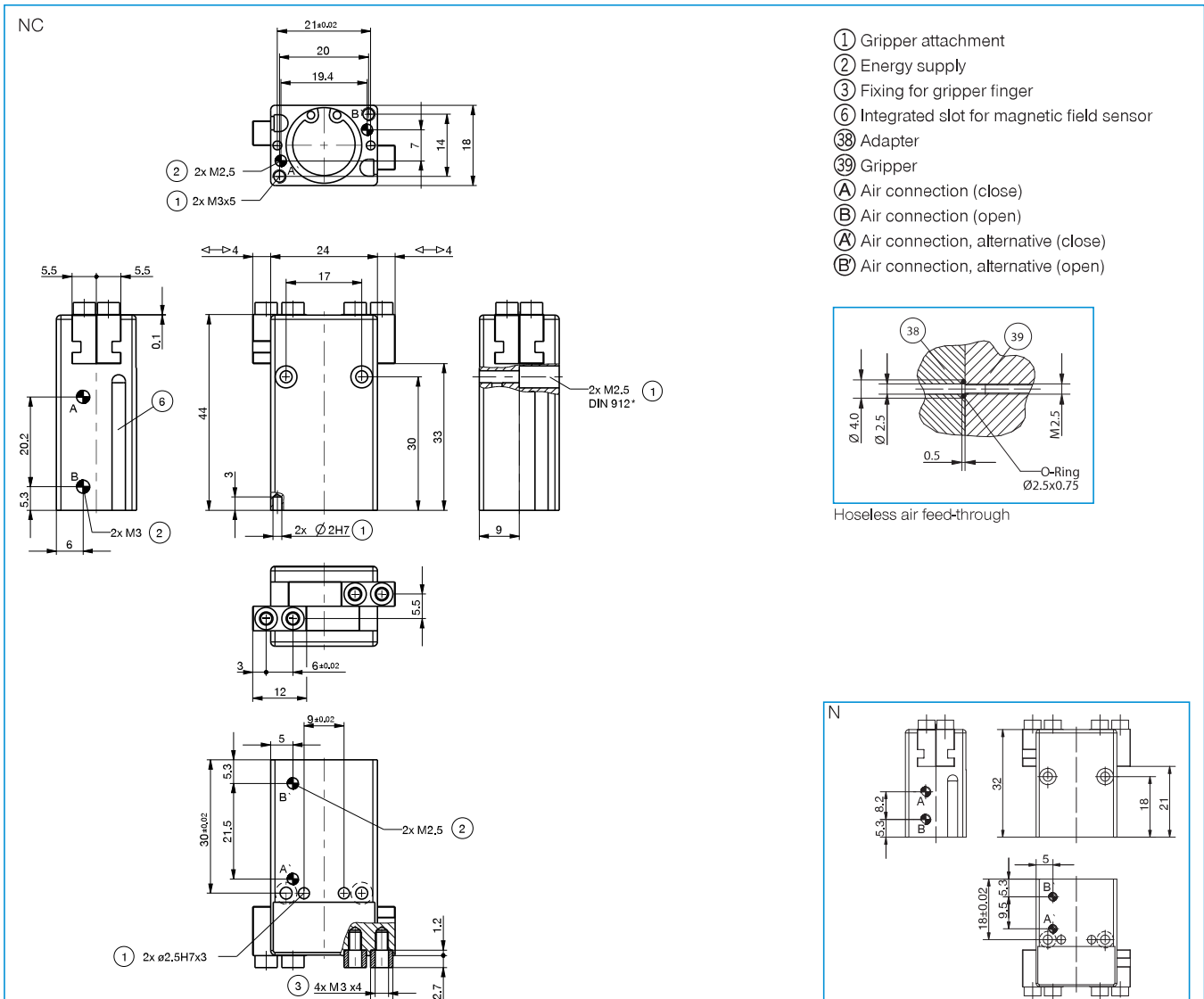
Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

Order no.	Technical Data*	
	MGP804N	MGP804NC
Stroke per jaw [mm]	4	4
Gripping force in closing [N]	60	90
Gripping force in opening [N]	65	
Gripping force secured by spring min. [N]		30
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.04
Repetition accuracy +/- [mm]	0.025	0.025
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1.9	2.5
Weight [kg]	0.05	0.07

*All data measured at 6 bar



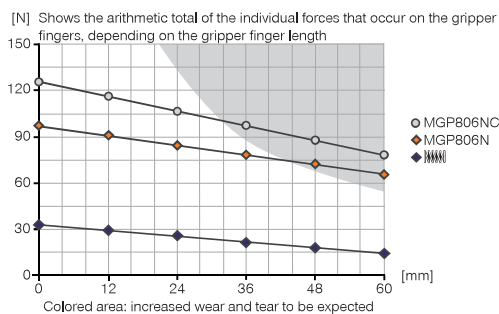
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP806

▶ PRODUCT SPECIFICATIONS

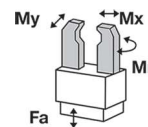


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	4
Mx [Nm]	14
My [Nm]	5
Fa [N]	330

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



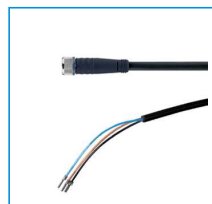
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Barb
Style Connection
GVM3



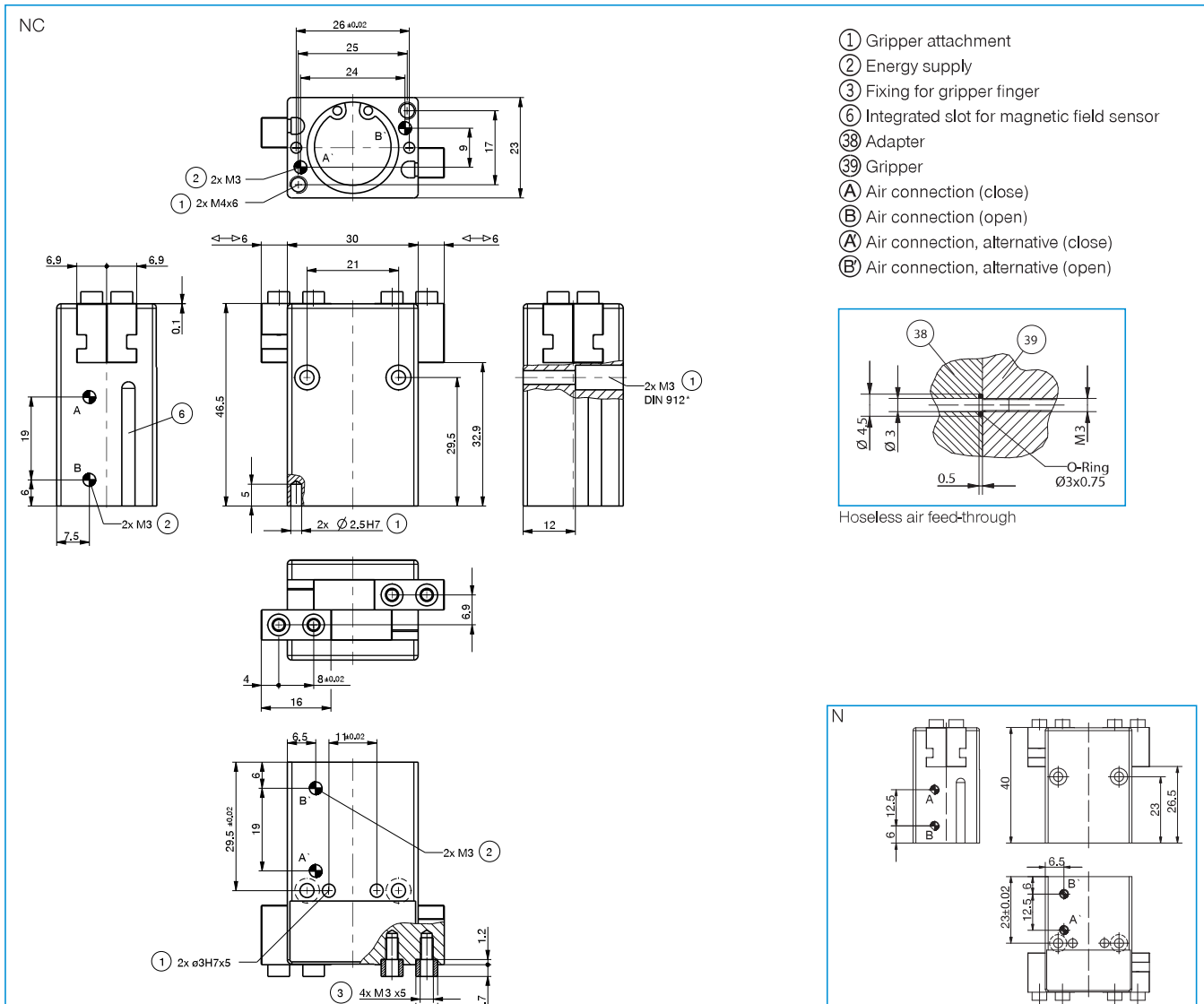
Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

Order no.	Technical Data*	
	MGP806N	MGP806NC
Stroke per jaw [mm]	6	6
Gripping force in closing [N]	100	140
Gripping force in opening [N]	120	
Gripping force secured by spring min. [N]		40
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.04
Repetition accuracy +/- [mm]	0.025	0.025
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	4.2	5.4
Weight [kg]	0.1	0.11

*All data measured at 6 bar



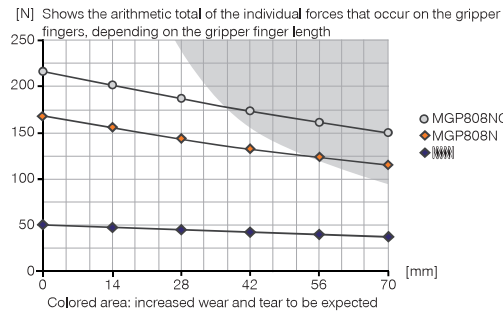
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP808

▶ PRODUCT SPECIFICATIONS

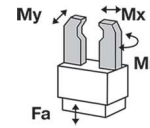


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	6
Mx [Nm]	21
My [Nm]	7
Fa [N]	450

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



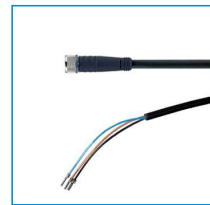
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Quick
Connect Style
GVM5



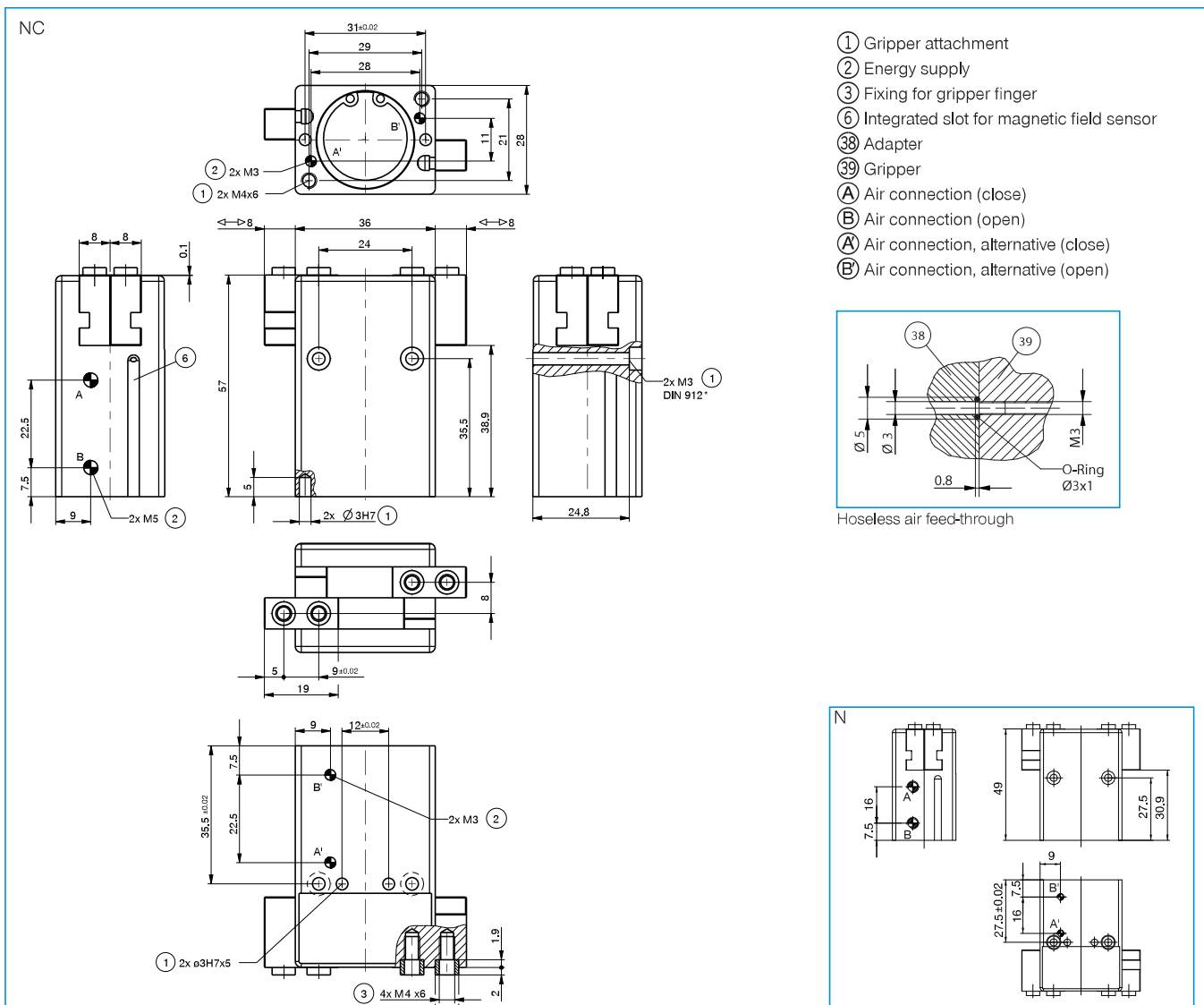
Angled Fittings - Quick
Connect Style
WVM5



Quick Exhaust Valve
DEV04

Order no.	Technical Data*	
	MGP808N	MGP808NC
Stroke per jaw [mm]	8	8
Gripping force in closing [N]	170	220
Gripping force in opening [N]	190	
Gripping force secured by spring min. [N]		50
Closing time [s]	0.04	0.04
Opening time [s]	0.04	0.06
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	8.4	11.3
Weight [kg]	0.16	0.18

*All data measured at 6 bar



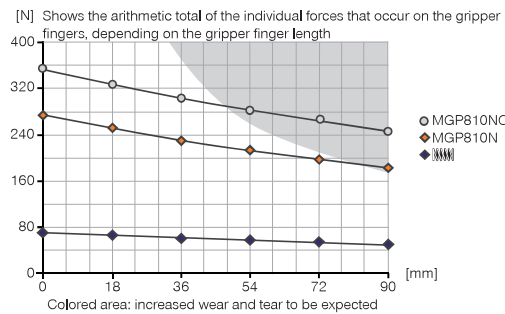
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP810

▶ PRODUCT SPECIFICATIONS

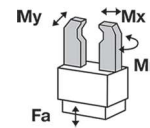


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	9
Mx [Nm]	32
My [Nm]	12
Fa [N]	590

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

▶ RECOMMENDED ACCESSORIES



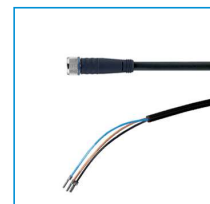
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Quick
Connect Style
GVM5



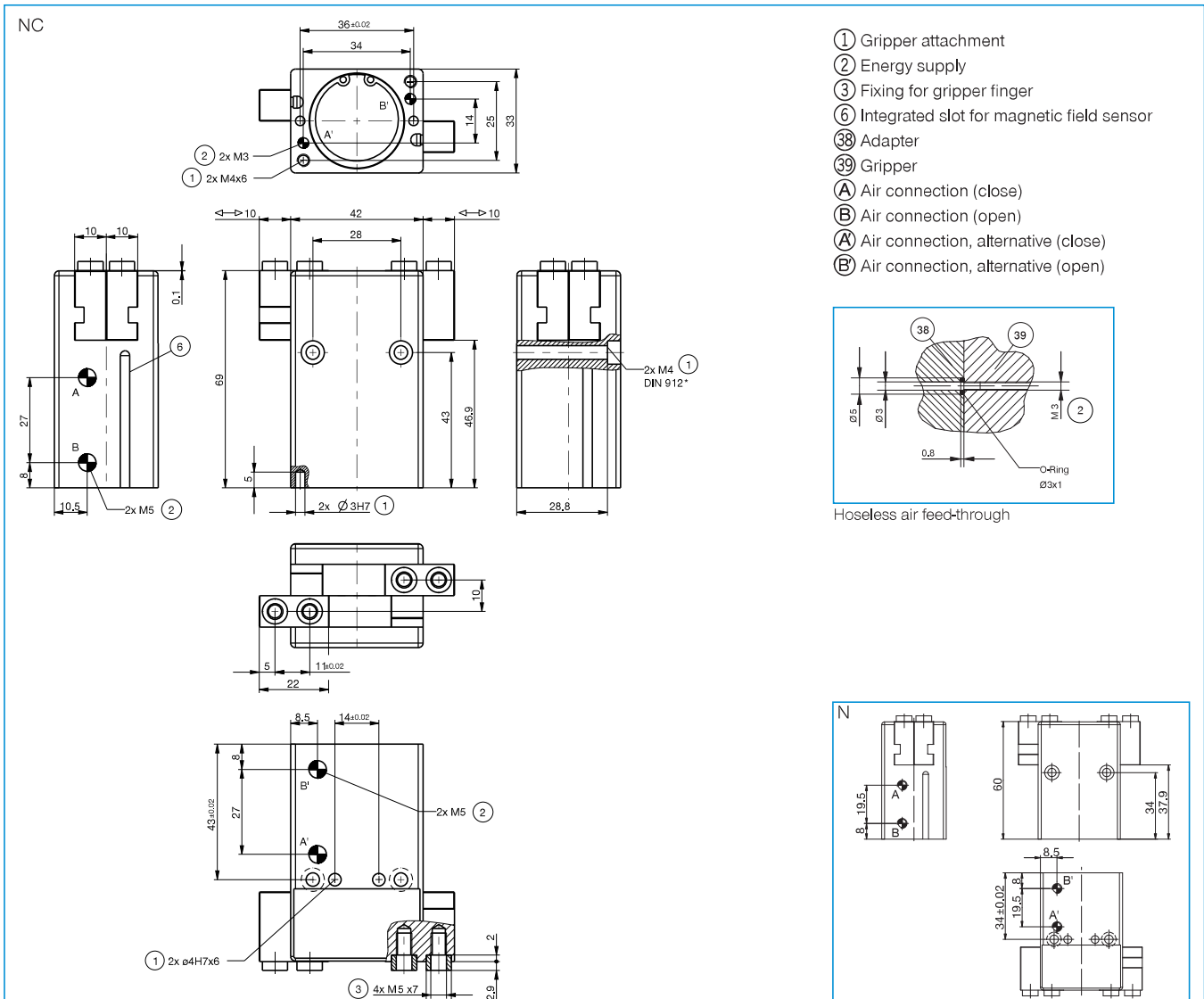
Angled Fittings - Quick
Connect Style
WVM5



Quick Exhaust Valve
DEV04

Order no.	Technical Data*	
	MGP810N	MGP810NC
Stroke per jaw [mm]	10	10
Gripping force in closing [N]	270	350
Gripping force in opening [N]	310	
Gripping force secured by spring min. [N]		80
Closing time [s]	0,04	0,04
Opening time [s]	0,04	0,06
Repetition accuracy +/- [mm]	0,02	0,02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	15,2	20,5
Weight [kg]	0,28	0,32

*All data measured at 6 bar



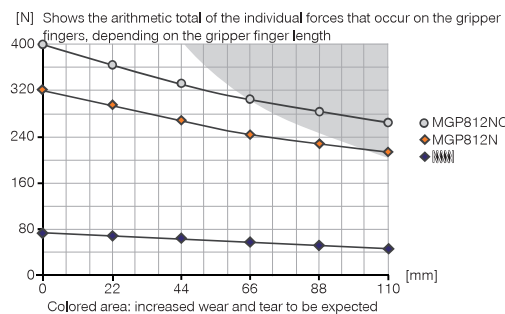
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP812

▶ PRODUCT SPECIFICATIONS

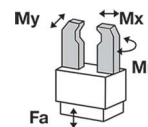


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	11
Mx [Nm]	42
My [Nm]	16
Fa [N]	790

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

▶ RECOMMENDED ACCESSORIES



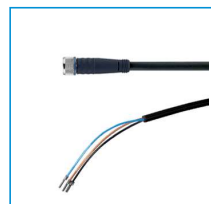
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Quick
Connect Style
GVM5



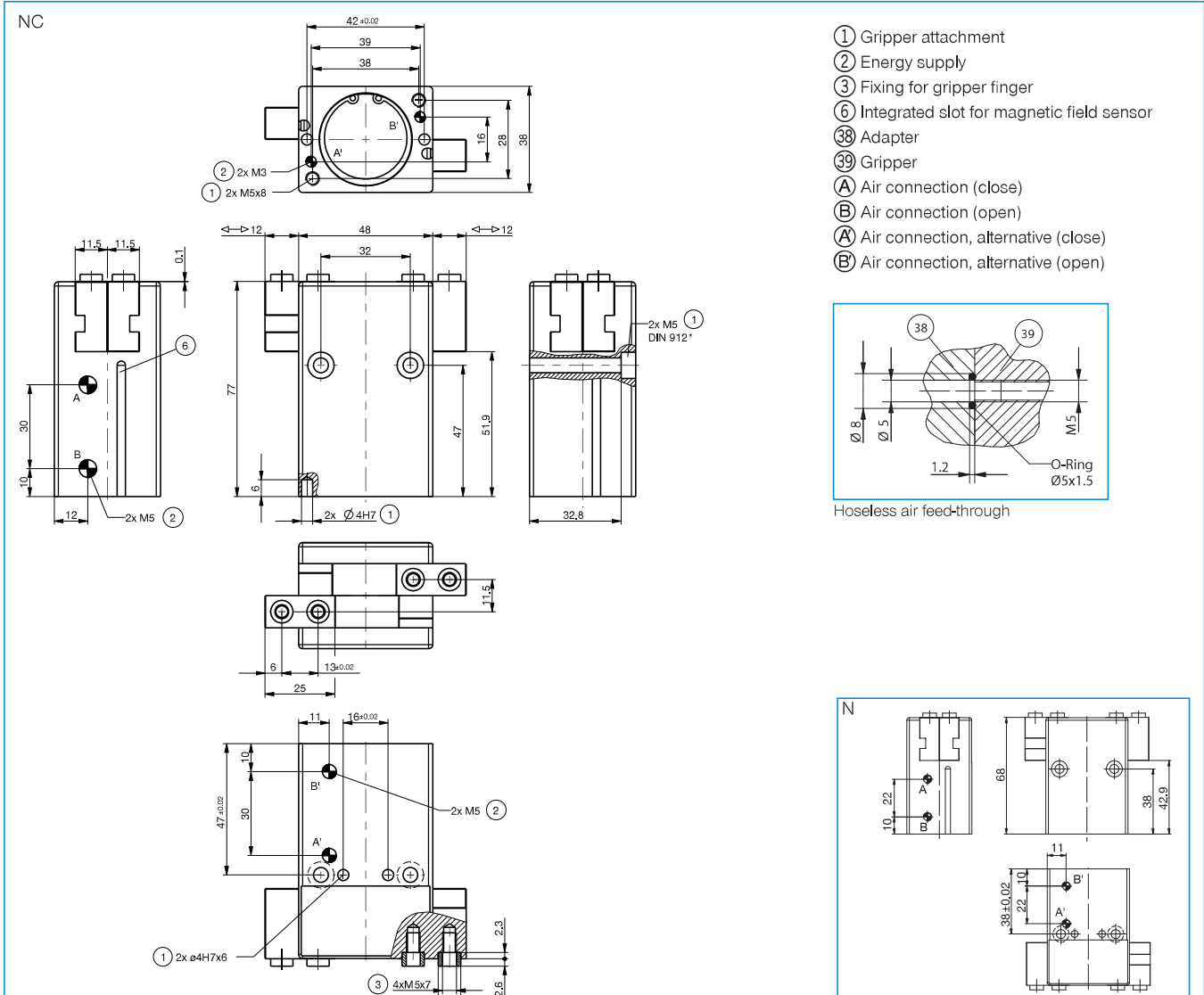
Angled Fittings - Quick
Connect Style
WVM5



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP812N	MGP812NC
Stroke per jaw [mm]	12	12
Gripping force in closing [N]	320	400
Gripping force in opening [N]	350	
Gripping force secured by spring min. [N]		80
Closing time [s]	0.06	0.06
Opening time [s]	0.06	0.08
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	22.3	28.1
Weight [kg]	0.41	0.46

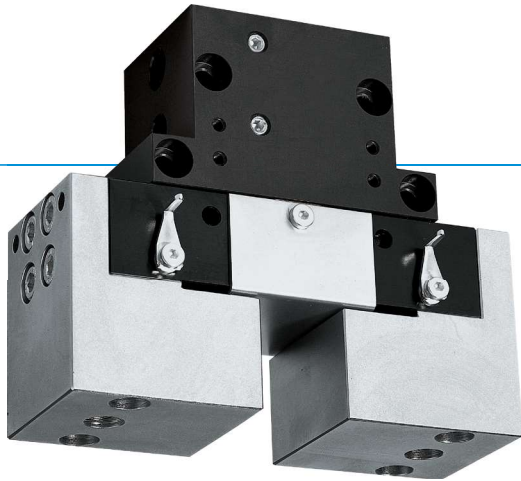
*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

SERIES GP

▶ PRODUCT ADVANTAGES



“The enduring”

▶ Proven technology

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

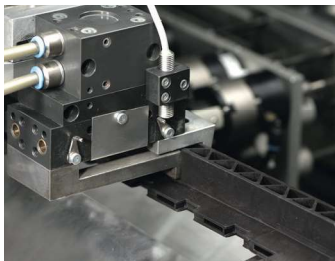
▶ Very short cycle times

Low-friction circular guides enable very short cycle times and, therefore, high component output for your machine

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ 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

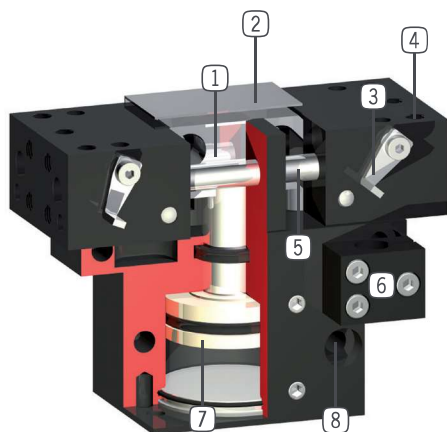
HOW TO ORDER CORRECTLY

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

Order no.	GP45	<input type="checkbox"/>	-B	
For external gripping, self-locking, spring closing		S		
Without intergrated spring				-99



► BENEFITS IN DETAIL



- 1 Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
 - high force transfer
- 2 Cover plate**
 - to protect the guide and mechanics (from GP45)
- 3 Adjustable switch cam**
 - for position sensing
- 4 Gripper jaw**
 - individual gripper finger mounting
- 5 Roller slide**
 - for low wear movement sequence
- 6 Mounting block**
 - mounting for inductive proximity switch
- 7 Drive**
 - double-acting pneumatic cylinder
- 8 Mounting and positioning**
 - mounting possible from several sides for versatile positioning

► SERIES CHARACTERISTICS



Number of installation sizes	6
Stroke per jaw	3 mm - 13 mm
Gripping force	4 N - 5250 N
Weight	0,033 kg - 1,4 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



Inductive sensor



IP30

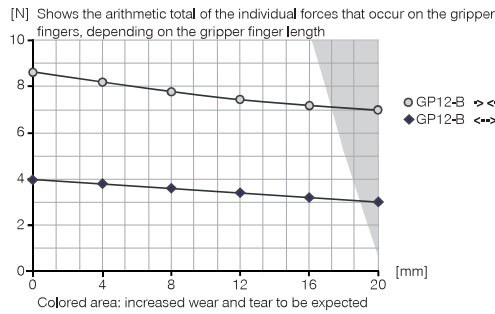
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP12

▶ PRODUCT SPECIFICATIONS

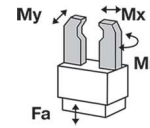


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



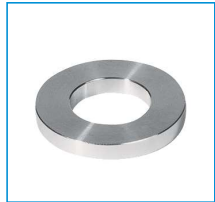
Mr [Nm]	0.15
Mx [Nm]	0.15
My [Nm]	0.15
Fa [N]	15

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB12



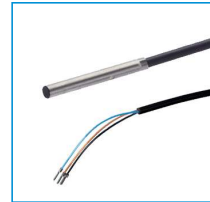
Centering Disc

ZE10H7X6



Mounting block

KB3M



Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ3-E2SK



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

KAG500



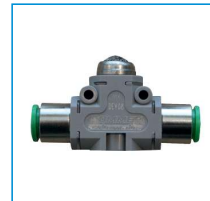
Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3

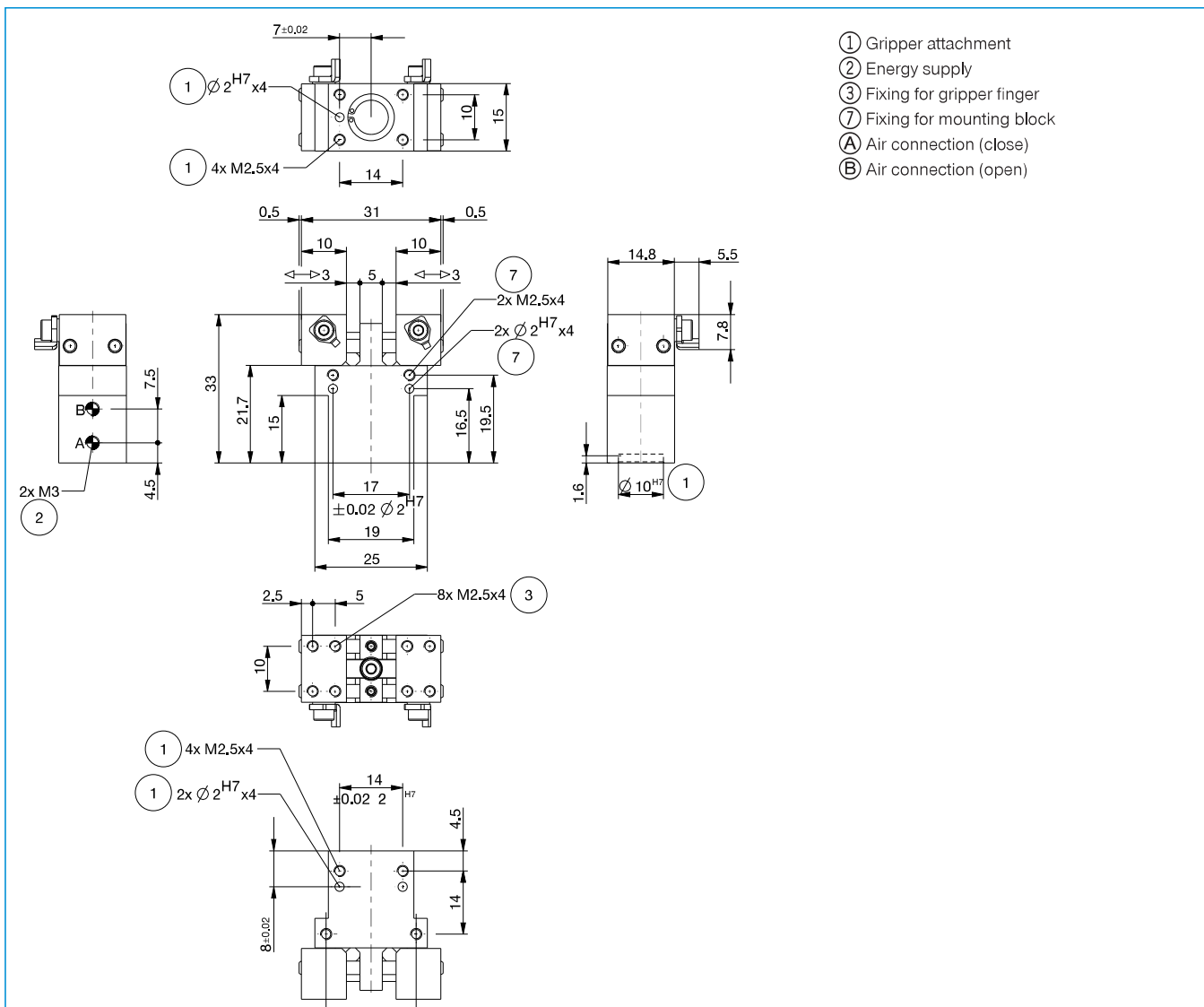


Quick Exhaust Valve

DEV04

Order no.	GP12-B
Stroke per jaw [mm]	3
Gripping force in closing [N]	8.4
Gripping force in opening [N]	4
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
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
Air volume per cycle [cm³]	0.4
Weight [kg]	0.033

*All data measured at 6 bar



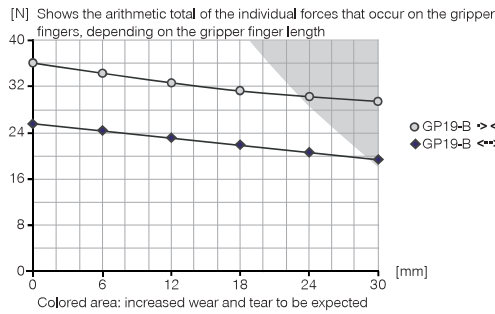
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP19

▶ PRODUCT SPECIFICATIONS

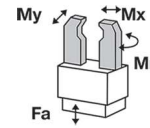


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.8
Mx [Nm]	0.8
My [Nm]	0.8
Fa [N]	40

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB19



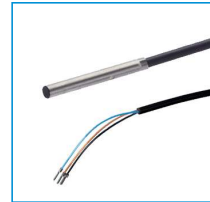
Centering Disc

ZE12H7X4



Mounting block

KB3



Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ3-E2SK



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5

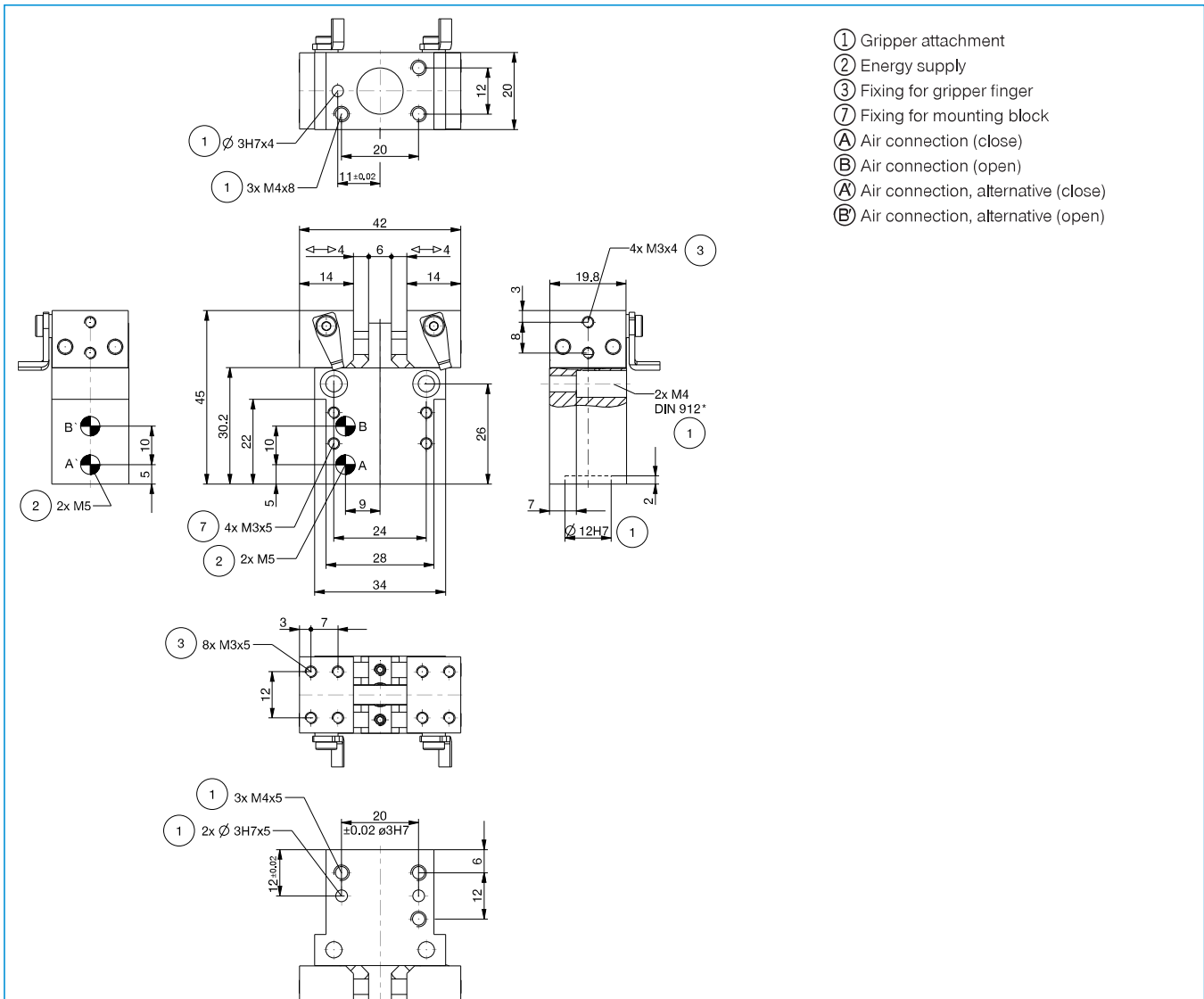


Quick Exhaust Valve

DEV04

Order no.	GP19-B
Stroke per jaw [mm]	4
Gripping force in closing [N]	36
Gripping force in opening [N]	26
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
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
Air volume per cycle [cm ³]	1
Weight [kg]	0.081

*All data measured at 6 bar



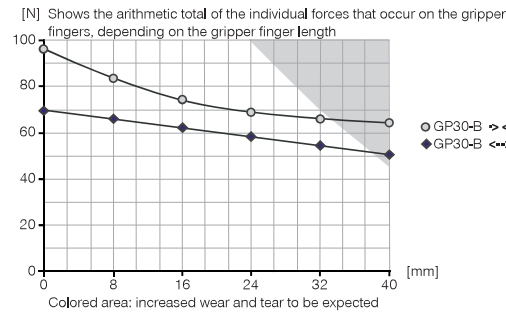
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP30

▶ PRODUCT SPECIFICATIONS

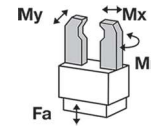


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



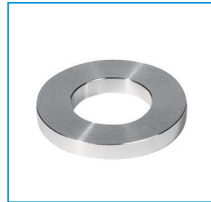
Mr [Nm]	2
Mx [Nm]	2
My [Nm]	2
Fa [N]	80

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB30



Centering Disc

ZE15H7X4



Mounting block

KB5



Inductive proximity switch
- Cable 5 m

NJ5-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ5-E2SK



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5

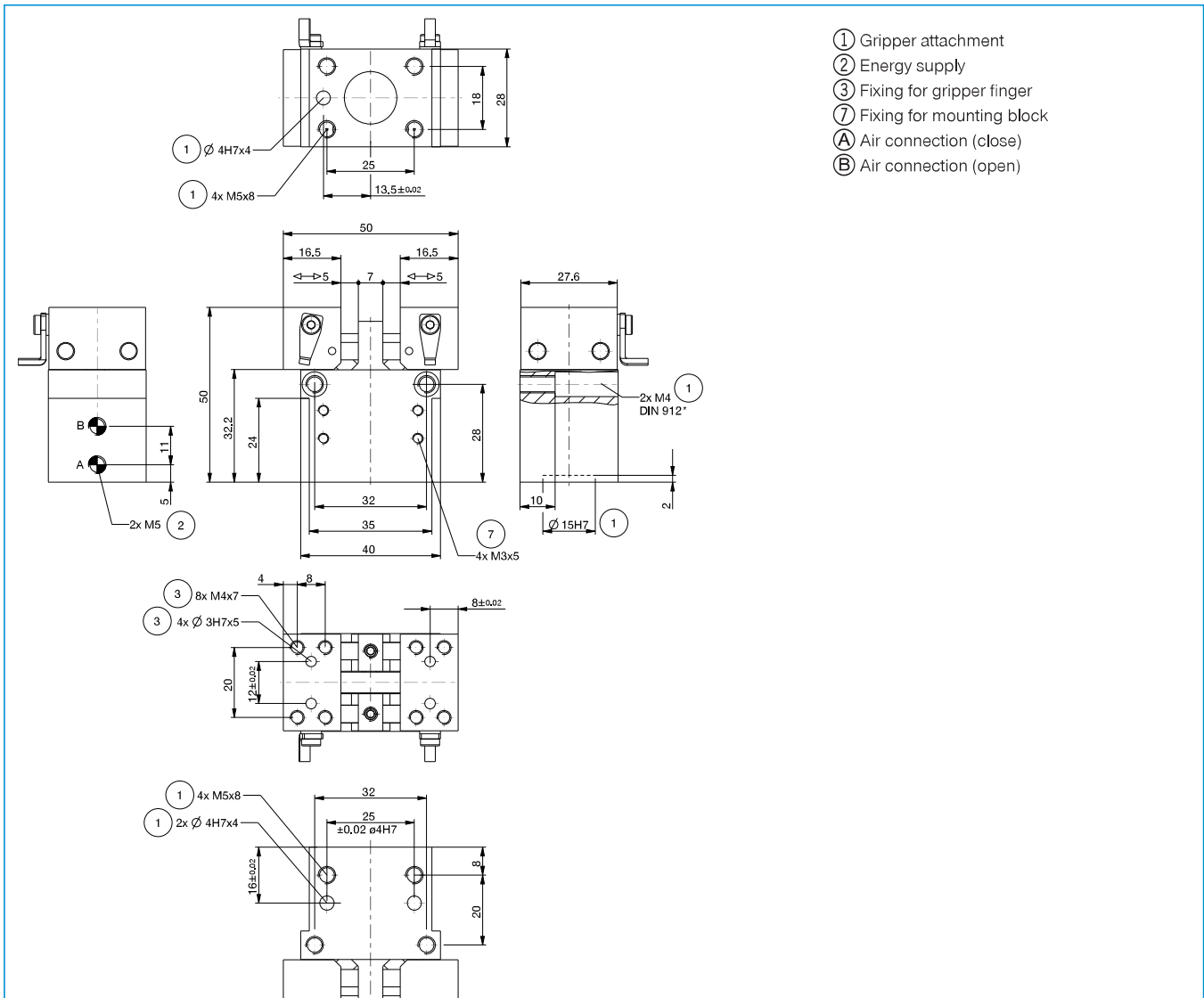


Quick Exhaust Valve

DEV04

Order no.	GP30-B
Stroke per jaw [mm]	5
Gripping force in closing [N]	94
Gripping force in opening [N]	76
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
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
Air volume per cycle [cm³]	3
Weight [kg]	0.15

*All data measured at 6 bar



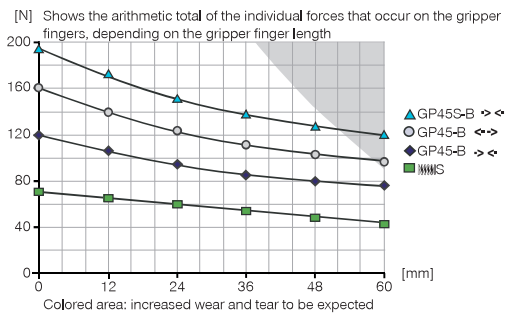
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP45

▶ PRODUCT SPECIFICATIONS

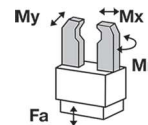


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



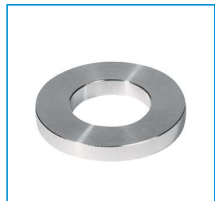
Mr [Nm]	4
Mx [Nm]	4
My [Nm]	4
Fa [N]	160

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB45



Centering Disc

ZE20H7X4



Mounting block

KB6.5



Inductive proximity switch
- Cable 5 m

NJ6,5-E2-01



Inductive proximity switch
- Connector M8

NJ6,5-E2S



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

KAG500



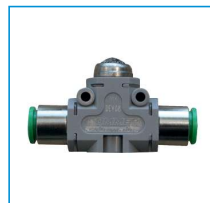
Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5

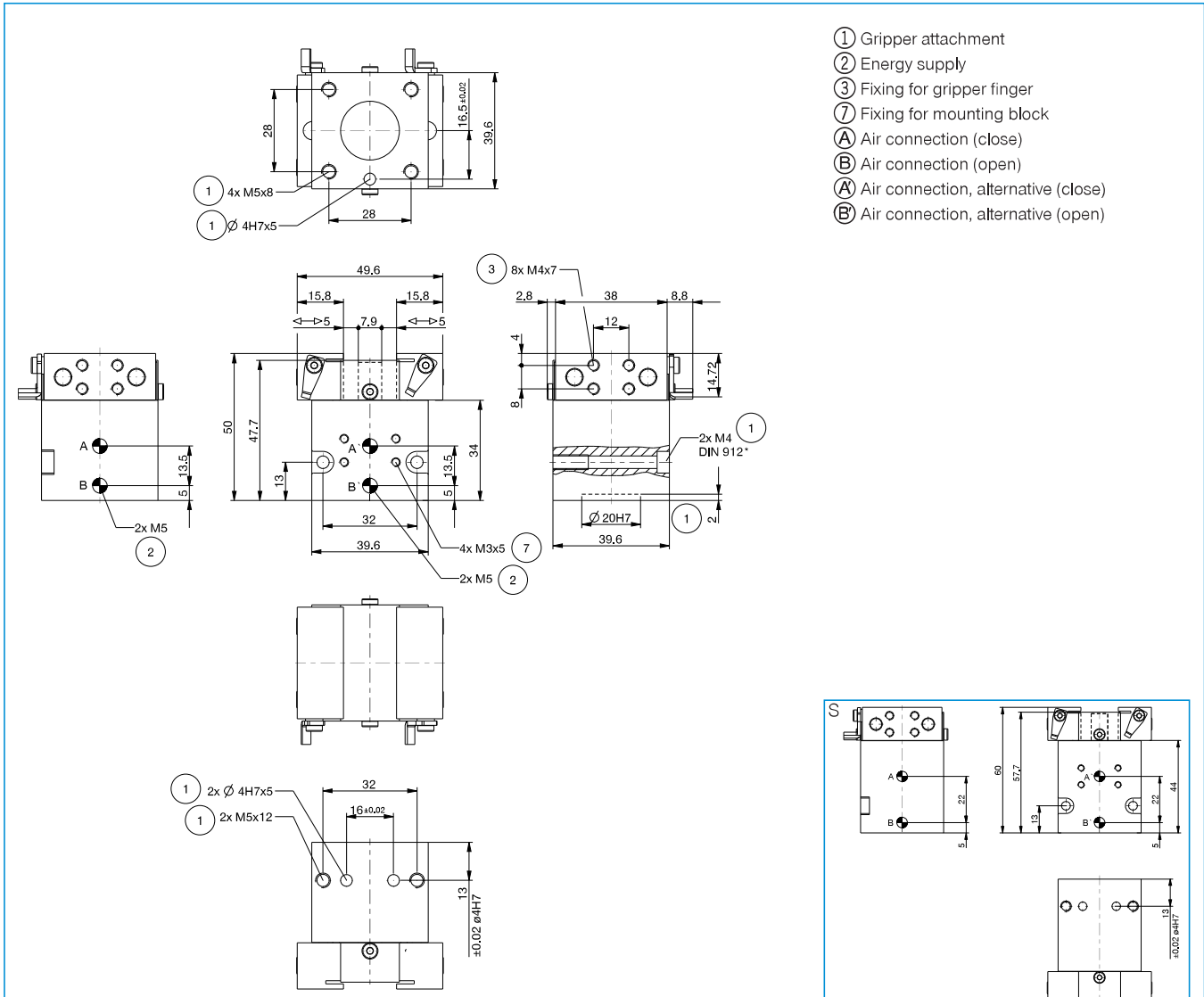


Quick Exhaust Valve

DEV04

Order no.	Technical Data*	
	GP45-B	GP45S-B
Stroke per jaw [mm]	5	5
Gripping force in closing [N]	118	190
Gripping force in opening [N]	155	
Gripping force secured by spring min. [N]		75
Closing time [s]	0,03	0,04
Opening time [s]	0,03	0,04
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	4	8
Weight [kg]	0,255	0,3

*All data measured at 6 bar



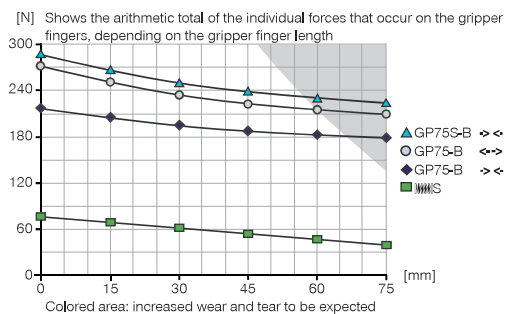
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP75

▶ PRODUCT SPECIFICATIONS

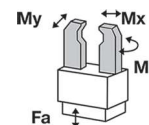


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	5
Fa [N]	180

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB75



Centering Disc

ZE20H7X4



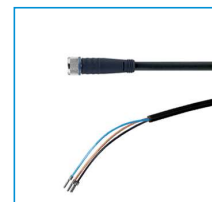
Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



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

KAG500



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

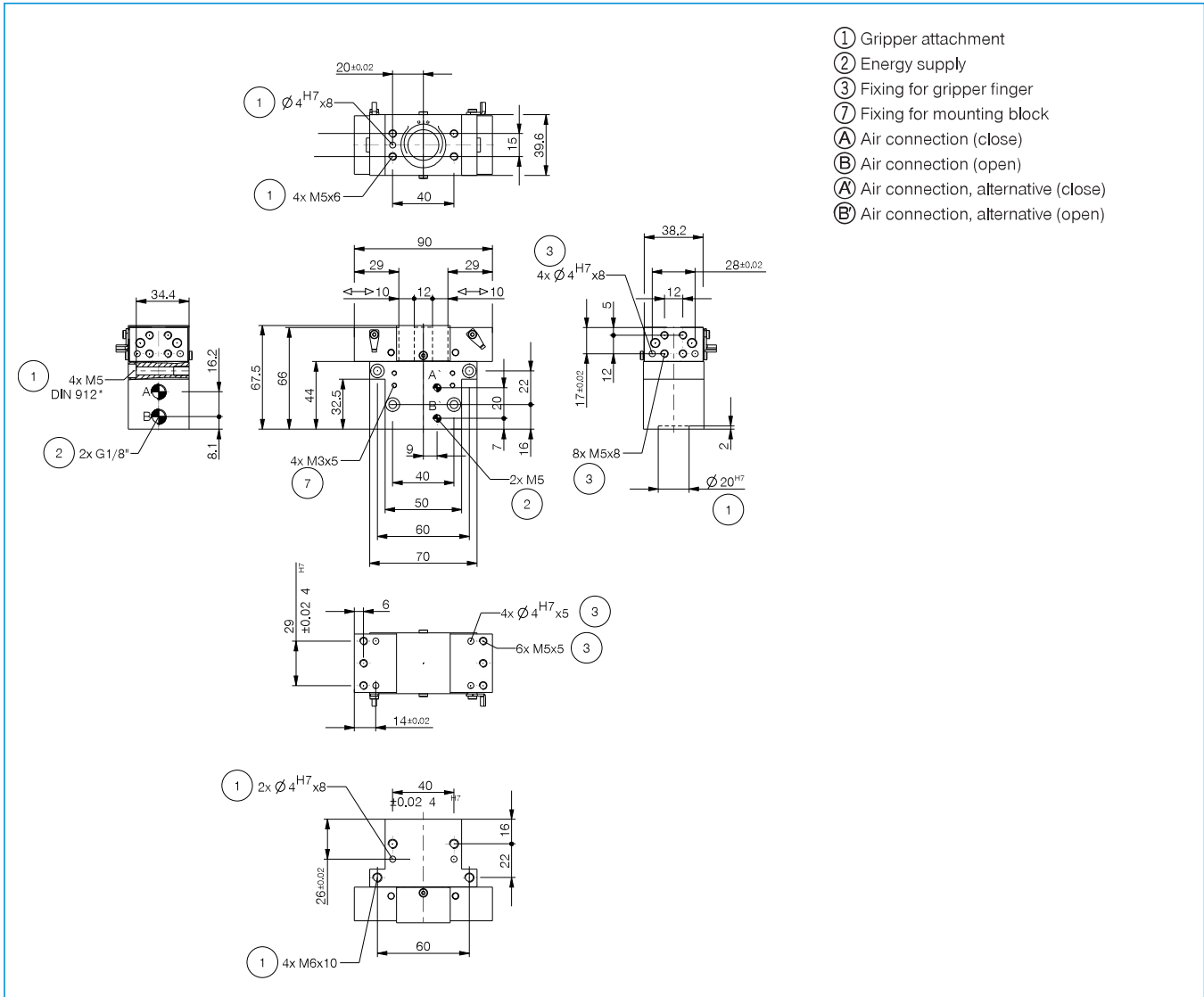


Quick Exhaust Valve

DEV06

Order no.	▶ Technical Data*	
	GP75-B	GP75S-B
Stroke per jaw [mm]	10	10
Gripping force in closing [N]	220	275
Gripping force in opening [N]	260	
Gripping force secured by spring min. [N]		63
Closing time [s]	0.03	0.04
Opening time [s]	0.03	0.04
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	13	19
Weight [kg]	0.45	0.5

*All data measured at 6 bar



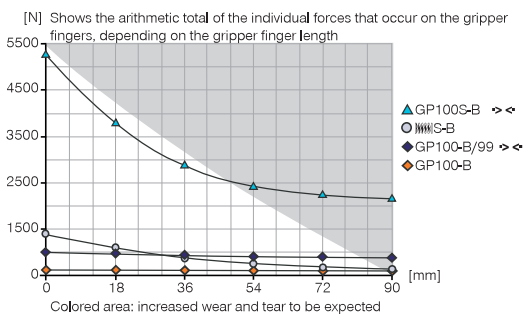
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP100

▶ PRODUCT SPECIFICATIONS

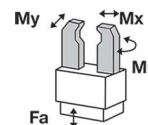


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	10
Mx [Nm]	10
My [Nm]	10
Fa [N]	400

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB100



Centering Disc

ZE30H7X4



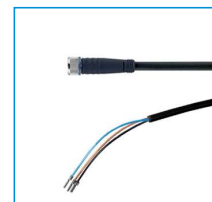
Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



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

KAG500



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

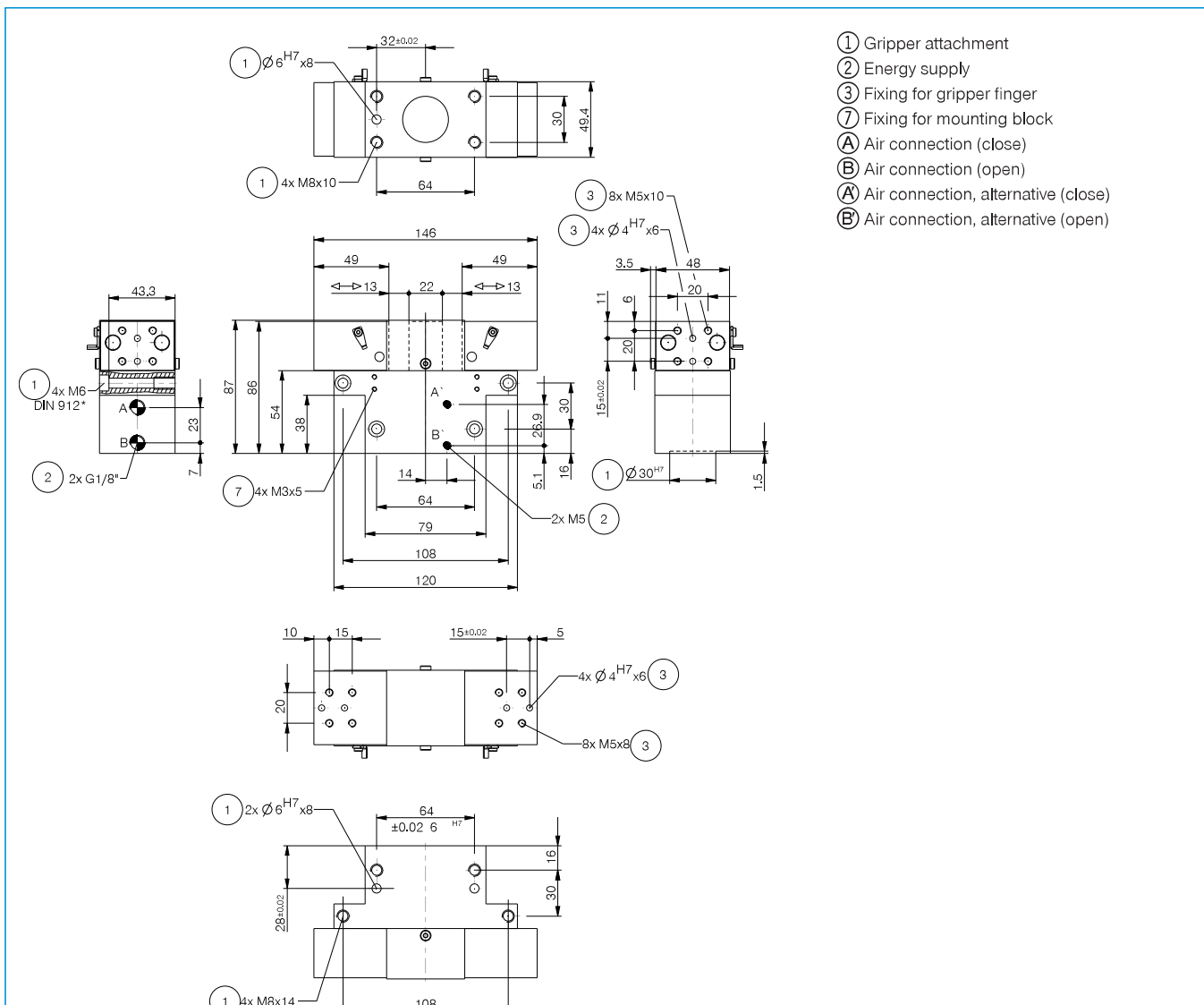


Quick Exhaust Valve

DEV06

Order no.	▶ Technical Data*		
	GP100-B	GP100-B-99	GP100S-B
Stroke per jaw [mm]	13	13	8
Gripping force in closing [N]	450	450	5250
Gripping force in opening [N]		450	
Gripping force secured by spring min. [N]	70		250
Closing time [s]	0.05	0.04	0.05
Opening time [s]	0.05	0.04	0.05
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Operating pressure min. [bar]	5	4	5
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	30	30	30
Weight [kg]	1.4	1.4	1.4

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

SERIES GP400

▶ PRODUCT ADVANTAGES



“The economical”

▶ Concentration on the essentials

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

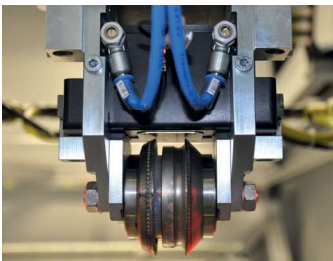
▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ Compact structure

Reduces the interference contours for 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

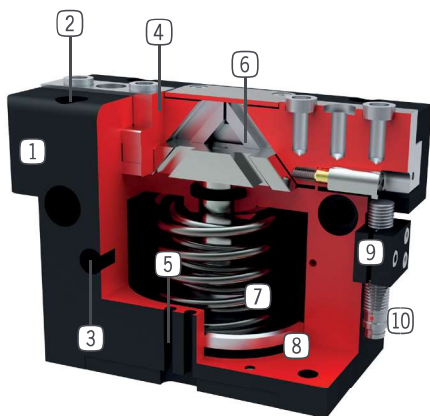
HOW TO ORDER CORRECTLY

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

Order no.	GP410	<input type="checkbox"/>	<input type="checkbox"/>	-C
Long stroke		N		
High force		S		
For external gripping, self-locking, spring closing			C	
For internal gripping, self-locking, spring opening			O	



► BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ② **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ③ **Energy supply**
- possible from several sides
- ④ **Gripper jaw**
- individual gripper finger mounting
- ⑤ **Sensing slot**
- mounting and positioning of magnetic field sensors
- ⑥ **Wedge hook mechanism**
- synchronized the movement of the gripper jaws
- ⑦ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑧ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ⑨ **Mounting block**
- mounting for inductive proximity switch (10)

► SERIES CHARACTERISTICS



Number of installation sizes	9
Stroke per jaw	3 mm - 30 mm
Gripping force	85 N - 19275 N
Weight	0,08 kg - 18,9 kg
AP class	3



10 million maintenance-free cycles (max.)



High-strength S



Magnetic field sensor



Spring closing C



Inductive sensor



Purged air



Spring opening O

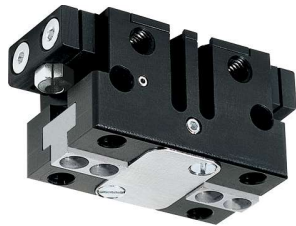


IP40

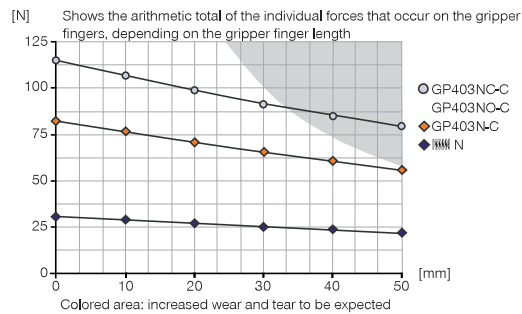
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP403

▶ PRODUCT SPECIFICATIONS

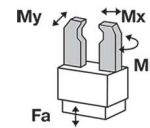


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	6
Mx [Nm]	9
My [Nm]	12
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB3-03



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB403



Universal Jaw Steel

UB403ST



Inductive Proximity Switch
Cable 0,3 m - Connector
M8
NJ3-E2SK



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04



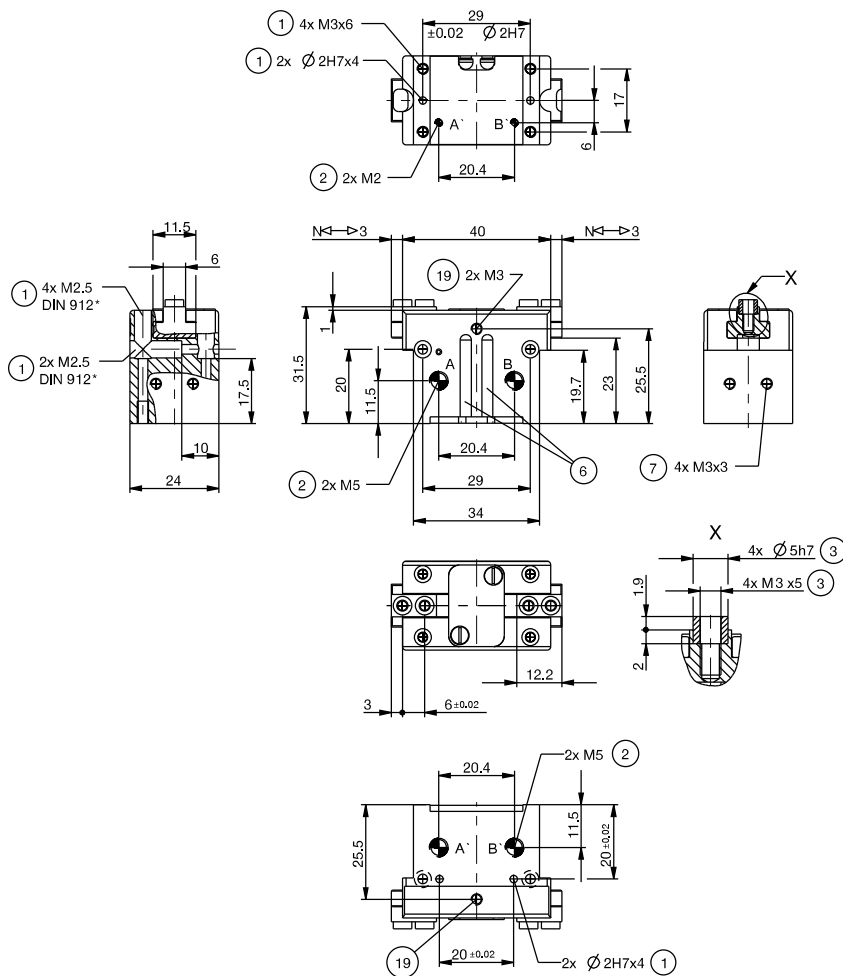
Pressure Safety Valve

DSV1-8

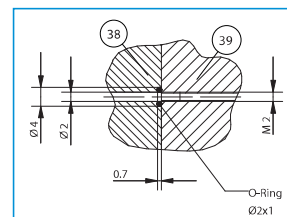
Order no.	▶ Technical Data*		
	GP403N-C	GP403NC-C	GP403NO-C
Stroke per jaw [mm]	3	3	3
Gripping force in closing [N]	85	115	
Gripping force in opening [N]	100		115
Gripping force secured by spring min. [N]		32	32
Closing time [s]	0,015	0,01	0,02
Opening time [s]	0,015	0,02	0,01
Repetition accuracy +/- [mm]	0,01	0,01	0,01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	8	8
Max. operating pressure for sealing air [bar]	0,5	0,5	0,5
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	1,8	3,3	3,3
Weight [kg]	0,08	0,1	0,1

*All data measured at 6 bar

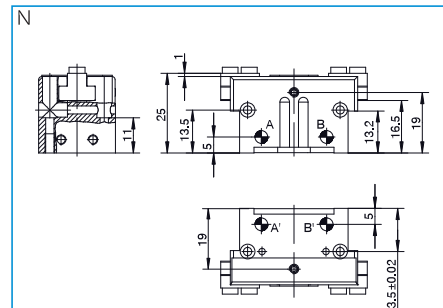
NC / NO



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑰ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- A Air connection (close)
- B Air connection (open)
- A' Air connection, alternative (close)
- B' Air connection, alternative (open)



Hoseless air feed-through



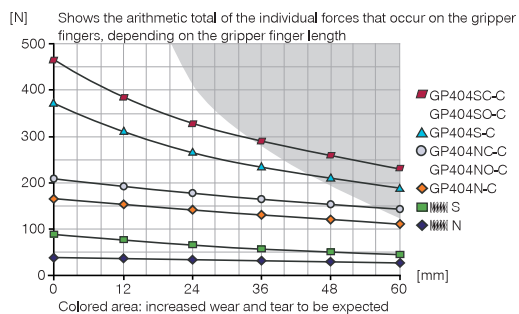
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP404

▶ PRODUCT SPECIFICATIONS

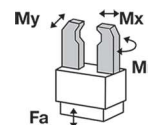


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	15
Fa [N]	700

▶ INCLUDED IN DELIVERY



Mounting block

KB3-08



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB404



Universal Jaw Steel

UB404ST



Inductive Proximity Switch
Cable 0,3 m - Connector
M8
NJ3-E2SK

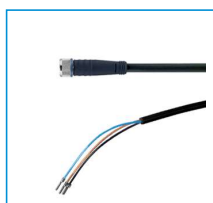


Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04



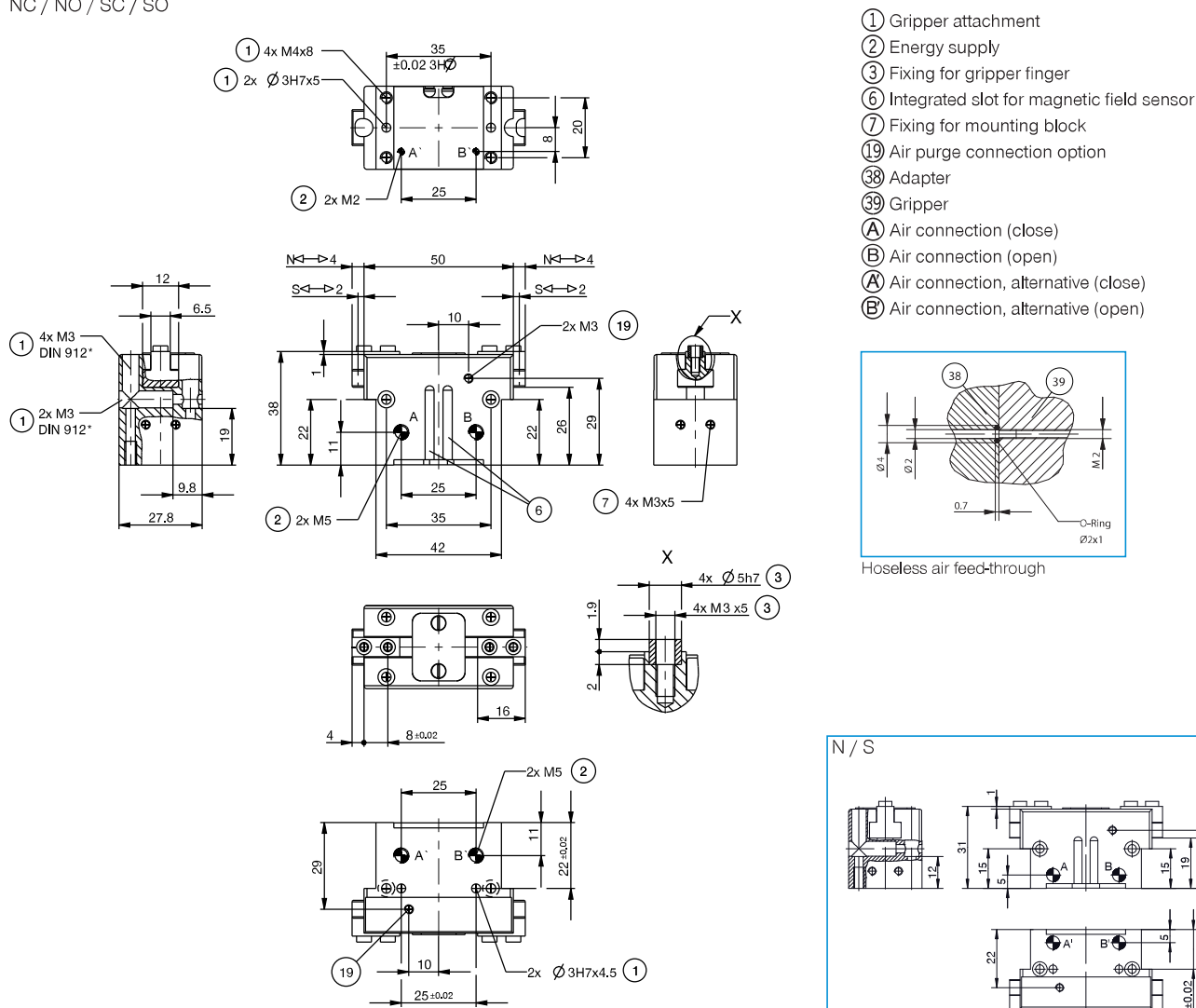
Angle flange

WFR01

Order no.	► Technical Data*					
	GP404N-C	GP404NC-C	GP404NO-C	GP404S-C	GP404SC-C	GP404SO-C
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	170	210		375	465	
Gripping force in opening [N]	185		225	410		500
Gripping force secured by spring min. [N]		40	40		90	90
Closing time [s]	0.02	0.015	0.025	0.02	0.015	0.025
Opening time [s]	0.02	0.025	0.015	0.02	0.025	0.015
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	4.1	6.9	6.9	4.1	6.9	6.9
Weight [kg]	0.14	0.16	0.16	0.14	0.16	0.16

*All data measured at 6 bar

NC / NO / SC / SO



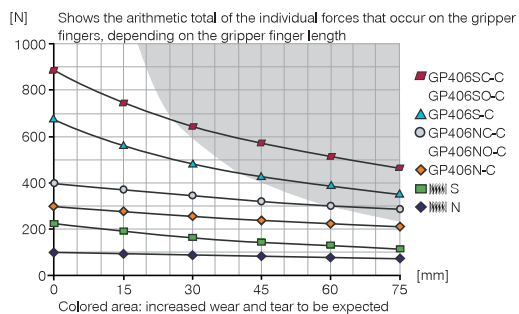
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP406

▶ PRODUCT SPECIFICATIONS

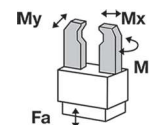


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	50
My [Nm]	45
Fa [N]	1200

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB406



Universal Jaw Steel

UB406ST



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



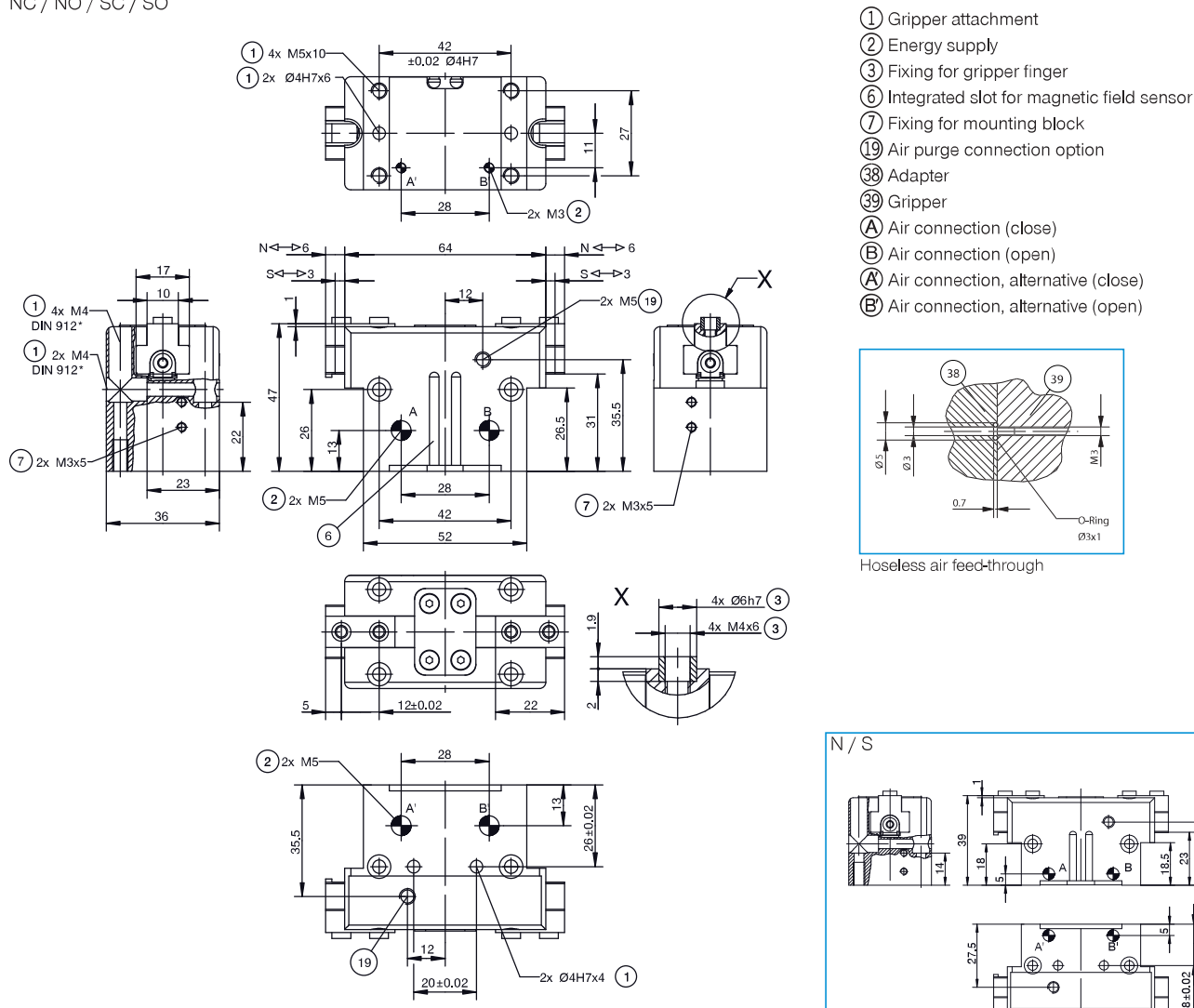
Angle flange

WFR01

Order no.	► Technical Data*					
	GP406N-C	GP406NC-C	GP406NO-C	GP406S-C	GP406SC-C	GP406SO-C
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	300	400		670	900	
Gripping force in opening [N]	325		425	725		950
Gripping force secured by spring min. [N]		100	100		230	230
Closing time [s]	0.03	0.025	0.04	0.03	0.025	0.04
Opening time [s]	0.03	0.04	0.025	0.03	0.04	0.025
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	10.1	15.5	15.5	10.1	15.5	15.5
Weight [kg]	0.27	0.32	0.32	0.27	0.32	0.32

*All data measured at 6 bar

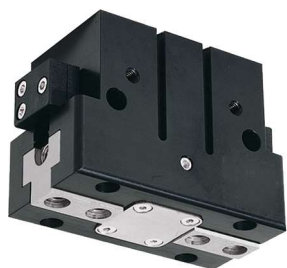
NC / NO / SC / SO



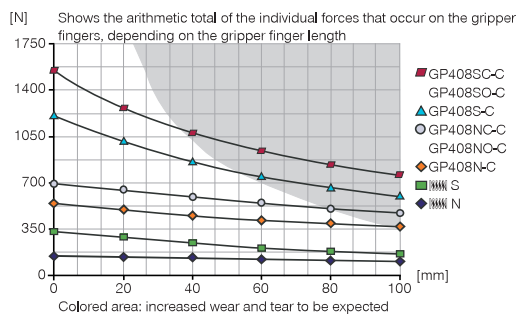
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP408

▶ PRODUCT SPECIFICATIONS

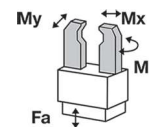


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	50
Mx [Nm]	80
My [Nm]	60
Fa [N]	1800

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB408



Universal Jaw Steel

UB408ST



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



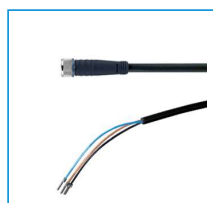
Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5

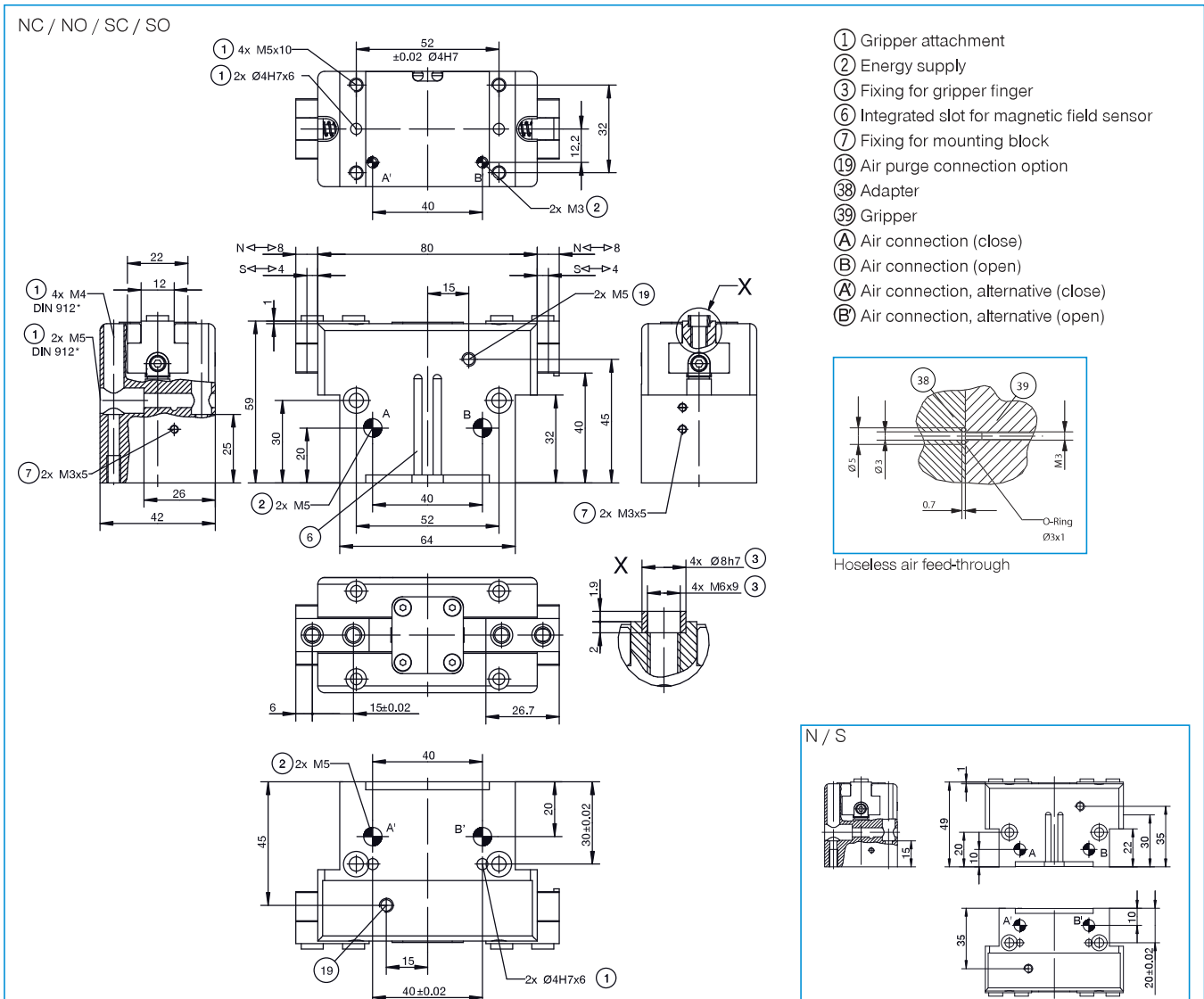


Angle flange

WFR02

Order no.	► Technical Data*					
	GP408N-C	GP408NC-C	GP408NO-C	GP408S-C	GP408SC-C	GP408SO-C
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	550	700		1230	1570	
Gripping force in opening [N]	590		740	1320		1660
Gripping force secured by spring min. [N]		150	150		340	340
Closing time [s]	0.04	0.03	0.05	0.04	0.03	0.05
Opening time [s]	0.04	0.05	0.03	0.04	0.05	0.03
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	23.6	35.5	35.5	23.6	35.5	35.5
Weight [kg]	0.5	0.57	0.57	0.5	0.57	0.57

*All data measured at 6 bar



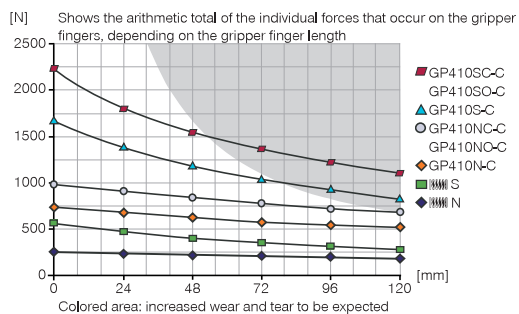
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP410

▶ PRODUCT SPECIFICATIONS

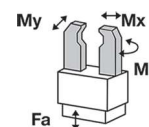


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	100
My [Nm]	90
Fa [N]	2500

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB410



Universal Jaw Steel

UB410ST



Alternate proximity bracket

KHA410-B-8



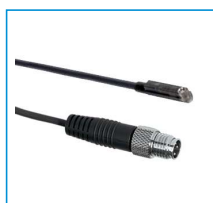
Inductive proximity switch - Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick Connect Style

GV1-8X6



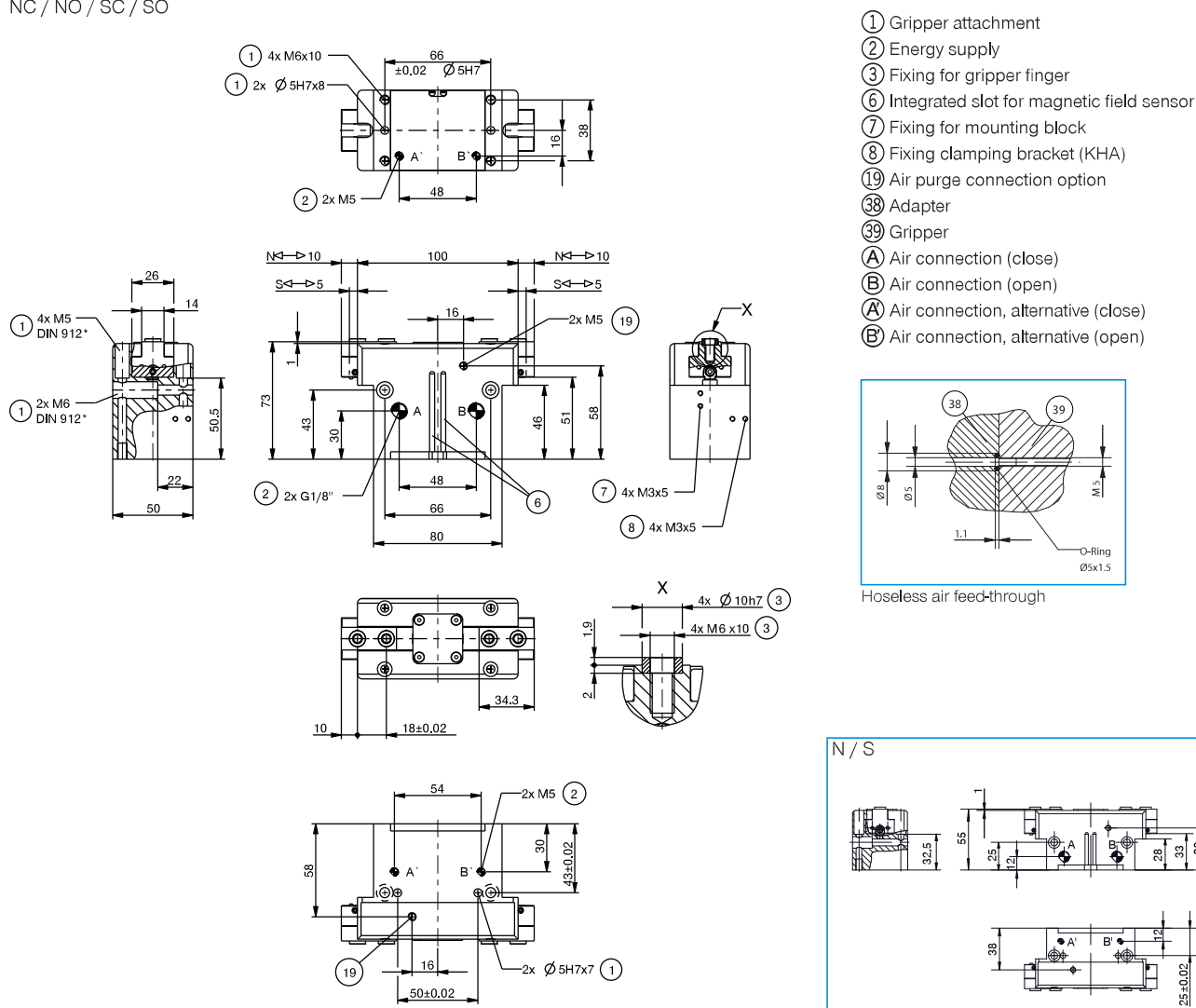
Angle flange

WFR02

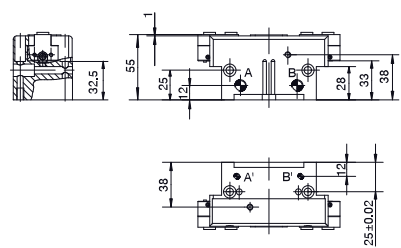
Order no.	► Technical Data*					
	GP410N-C	GP410NC-C	GP410NO-C	GP410S-C	GP410SC-C	GP410SO-C
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	740	990		1650	2215	
Gripping force in opening [N]	795		1050	1770		2340
Gripping force secured by spring min. [N]		250	250		570	570
Closing time [s]	0.07	0.06	0.09	0.07	0.06	0.09
Opening time [s]	0.07	0.09	0.06	0.07	0.09	0.06
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	39.3	66.7	66.7	39.3	66.7	66.7
Weight [kg]	0.85	1	1	0.85	1	1

*All data measured at 6 bar

NC / NO / SC / SO



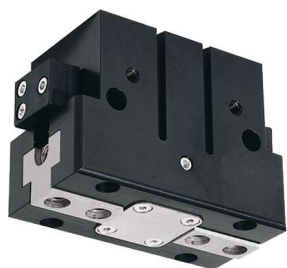
N/S



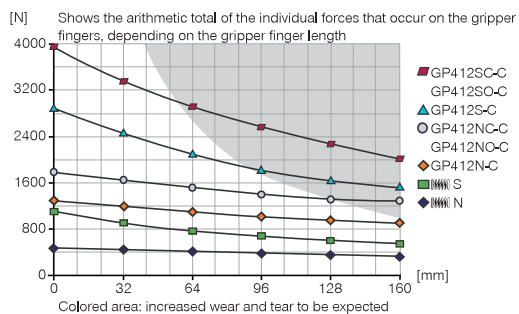
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP412

▶ PRODUCT SPECIFICATIONS

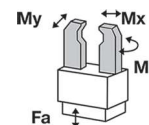


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	120
My [Nm]	120
Fa [N]	3200

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB412



Universal Jaw Steel

UB412ST



Alternate proximity bracket

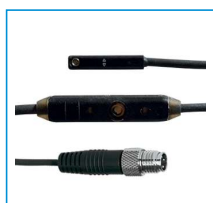
KHA412-B-8



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Straight Fittings - Quick
Connect Style
GV1-8X6



Angled Fittings - Quick
Connect Style
WV1-8X6



Pressure Safety Valve
DSV1-8

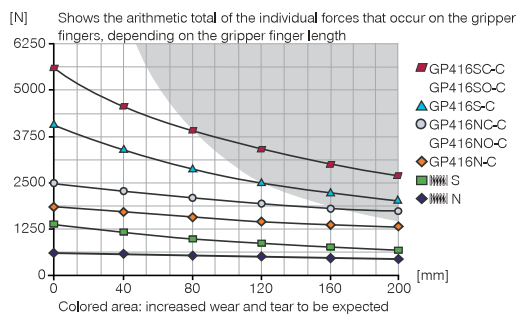
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP416

▶ PRODUCT SPECIFICATIONS

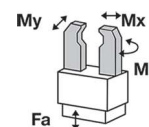


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	140
Mx [Nm]	160
My [Nm]	180
Fa [N]	5000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB416



Universal Jaw Steel

UB416ST



Alternate proximity bracket

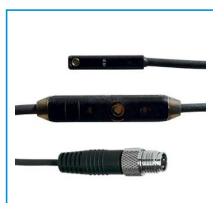
KHA416-B-8



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GV1-8X6



Angled Fittings - Quick
Connect Style

WV1-8X6



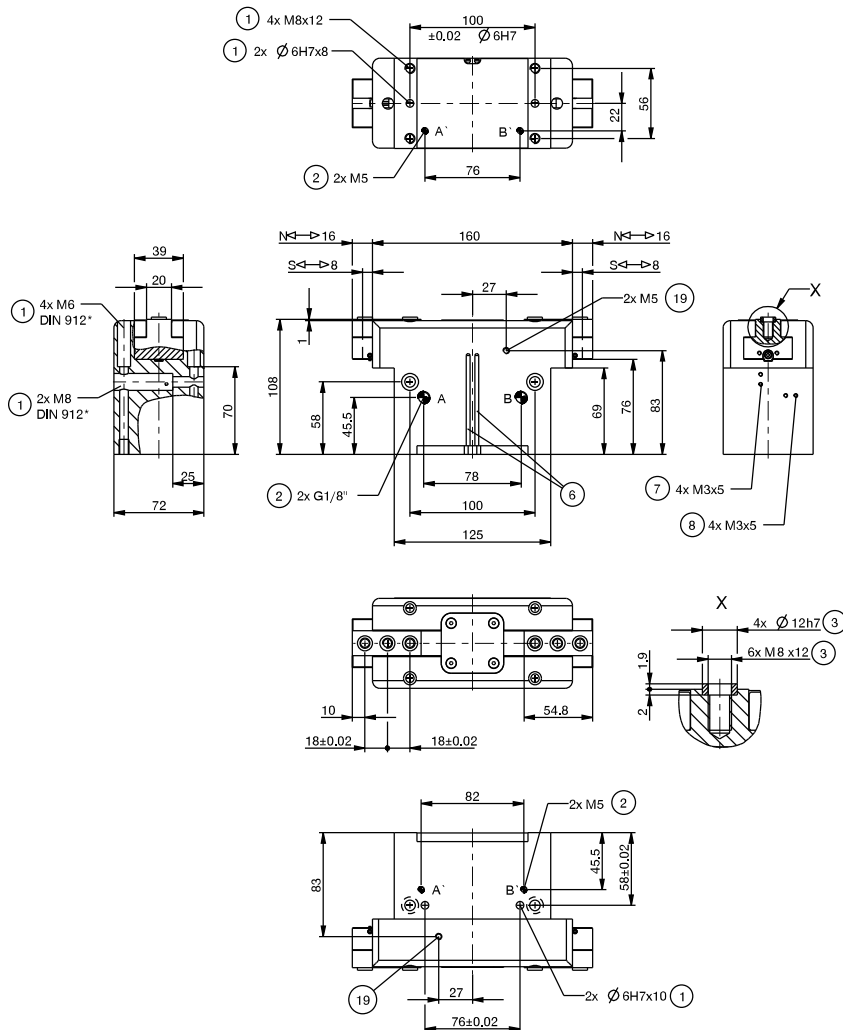
Pressure Safety Valve

DSV1-8

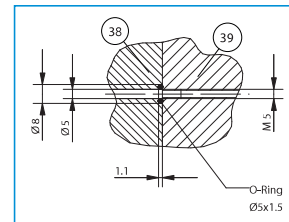
Order no.	▶ Technical Data*					
	GP416N-C	GP416NC-C	GP416NO-C	GP416S-C	GP416SC-C	GP416SO-C
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	1860	2490		4160	5560	
Gripping force in opening [N]	1960		2590	4390		5780
Gripping force secured by spring min. [N]		630	630		1400	1400
Closing time [s]	0.2	0.15	0.25	0.2	0.15	0.25
Opening time [s]	0.2	0.25	0.15	0.2	0.25	0.15
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	268	477	477	268	477	477
Weight [kg]	2.9	3.4	3.4	2.9	3.4	3.4

*All data measured at 6 bar

NC / NO / SC / SO

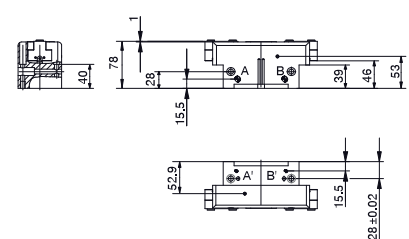


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑱ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- A Air connection (close)
- B Air connection (open)
- A' Air connection, alternative (close)
- B' Air connection, alternative (open)



Hoseless air feed-through

N/S



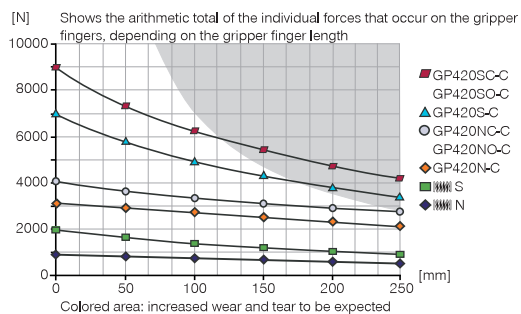
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP420

▶ PRODUCT SPECIFICATIONS

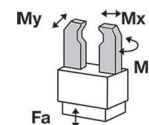


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	170
Mx [Nm]	180
My [Nm]	220
Fa [N]	7000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST42000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB420



Universal Jaw Steel

UB420ST



Alternate proximity bracket

KHA420-B-8



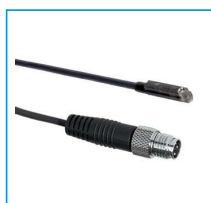
Inductive proximity switch - Connector M8

NJ8-E2S



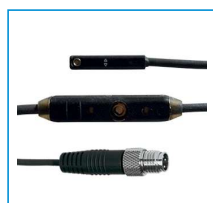
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick Connect Style

GV1-4X8



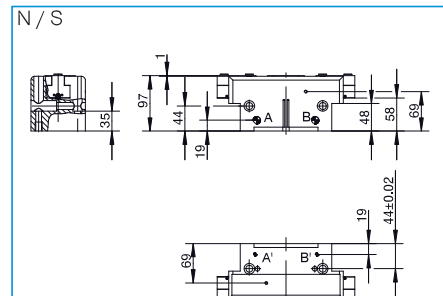
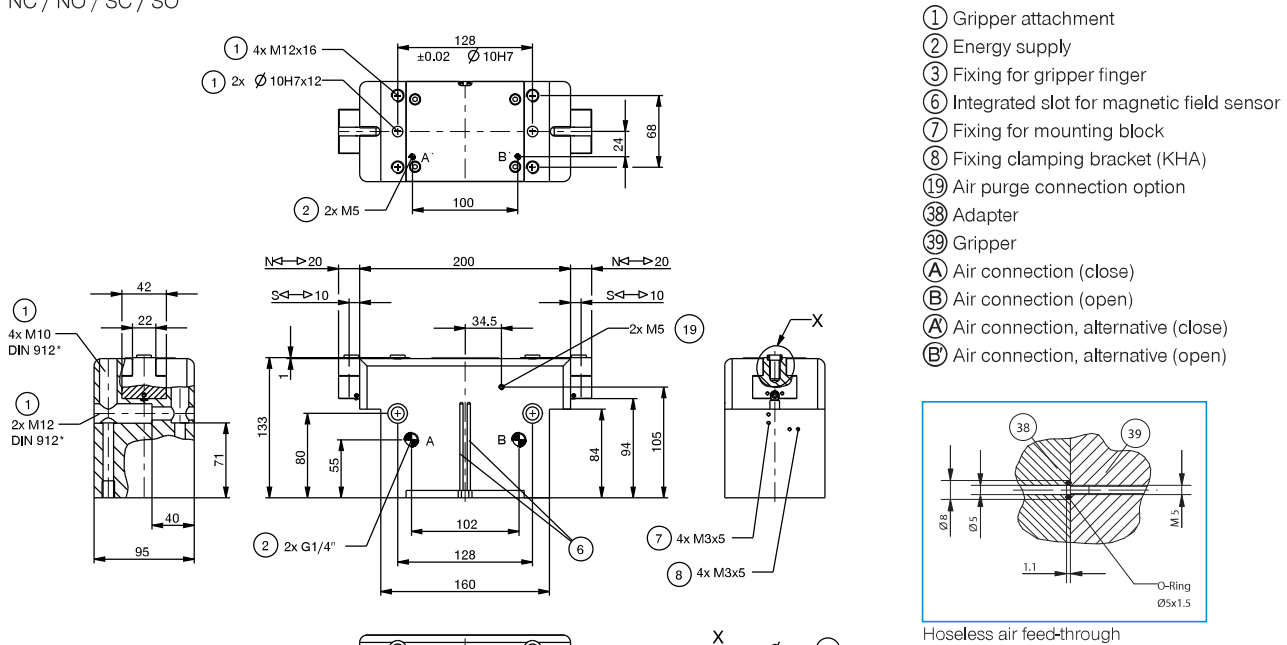
Pressure Safety Valve

DSV1-8

Order no.	Technical Data*					
	GP420N-C	GP420NC-C	GP420NO-C	GP420S-C	GP420SC-C	GP420SO-C
Stroke per jaw [mm]	20	20	20	10	10	10
Gripping force in closing [N]	3175	4060		7080	9060	
Gripping force in opening [N]	3330		4215	7430		9400
Gripping force secured by spring min. [N]		900	900		1975	1975
Closing time [s]	0,35	0,3	0,4	0,35	0,3	0,4
Opening time [s]	0,35	0,4	0,3	0,35	0,4	0,3
Repetition accuracy +/- [mm]	0,02	0,02	0,02	0,02	0,02	0,02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0,5	0,5	0,5	0,5	0,5	0,5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	320	590	590	320	590	590
Weight [kg]	5,5	6,7	6,7	5,5	6,7	6,7

*All data measured at 6 bar

NC / NO / SC / SO



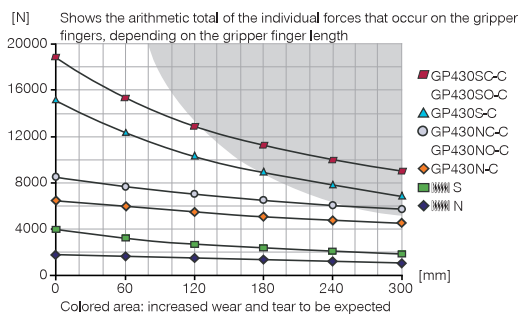
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP430

▶ PRODUCT SPECIFICATIONS

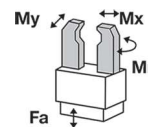


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	200
Mx [Nm]	275
My [Nm]	300
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST43000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB430



Universal Jaw Steel

UB430ST



Alternate proximity bracket

KHA430-B-8



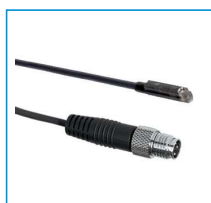
Inductive proximity switch - Connector M8

NJ8-E2S



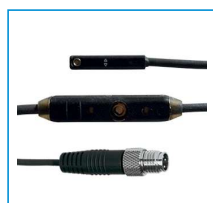
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick Connect Style

GV1-4X8



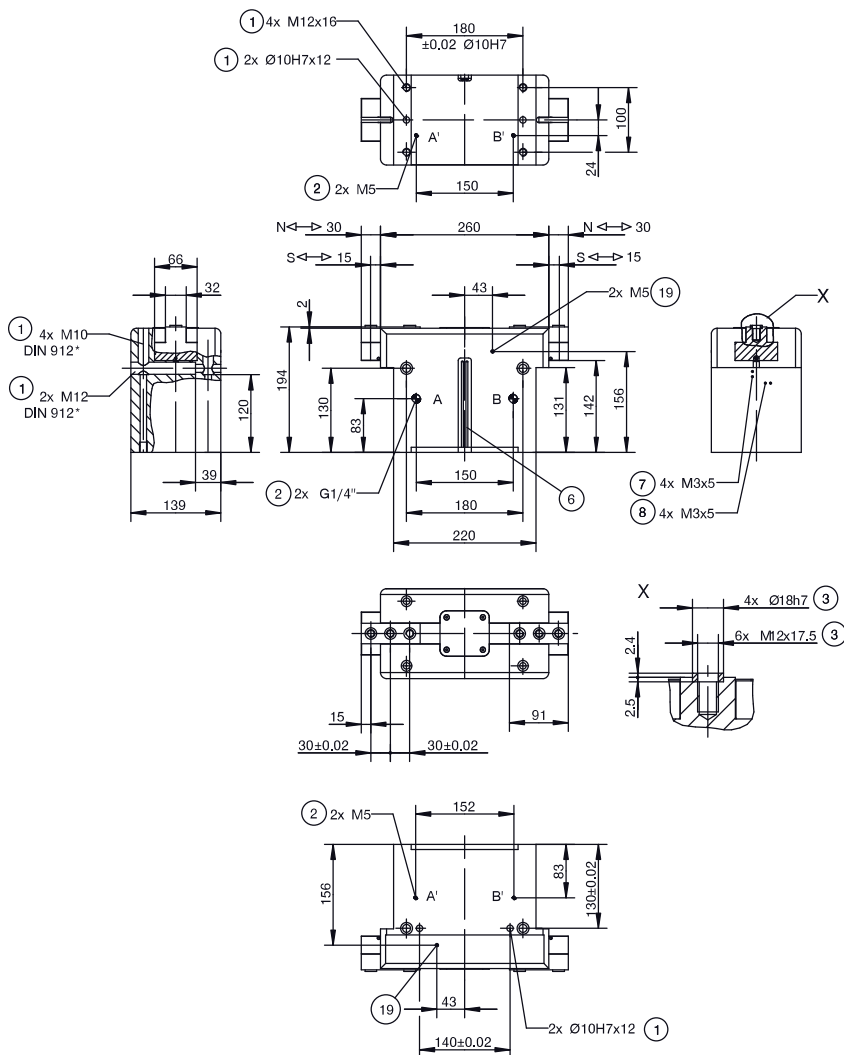
Pressure Safety Valve

DSV1-8

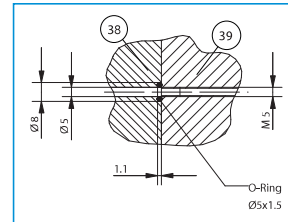
Order no.	► Technical Data*					
	GP430N-C	GP430NC-C	GP430NO-C	GP430S-C	GP430SC-C	GP430SO-C
Stroke per jaw [mm]	30	30	30	15	15	15
Gripping force in closing [N]	6675	8480		14900	18930	
Gripping force in opening [N]	6830		8640	15250		19275
Gripping force secured by spring min. [N]		1800	1800		4030	4030
Closing time [s]	0,4	0,4	0,8	0,4	0,4	0,8
Opening time [s]	0,4	0,8	0,4	0,4	0,8	0,4
Repetition accuracy +/- [mm]	0,04	0,04	0,04	0,04	0,04	0,04
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0,5	0,5	0,5	0,5	0,5	0,5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	980	1850	1850	980	1850	1850
Weight [kg]	14	18,9	18,9	14	18,9	18,9

*All data measured at 6 bar

NC / NO / SC / SO

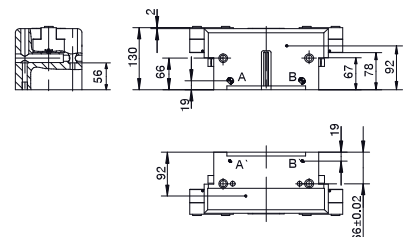


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑰ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- A Air connection (close)
- B Air connection (open)
- A' Air connection, alternative (close)
- B' Air connection, alternative (open)



Hoseless air feed-through

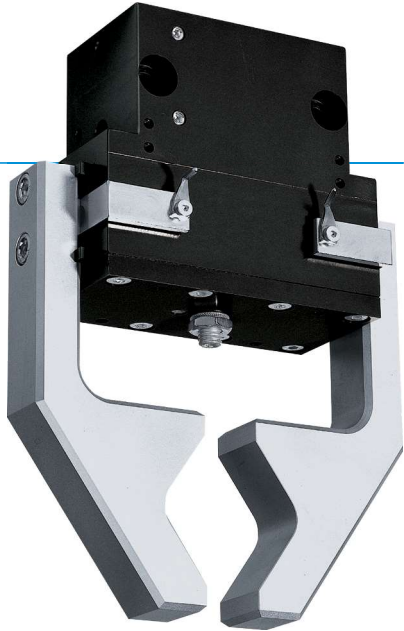
N/S



2-JAW PARALLEL GRIPPERS

SERIES GP200

▶ PRODUCT ADVANTAGES



“The variable”

▶ Smooth stroke configuration

An adjusting screw allows you to adjust the stroke to your specific application

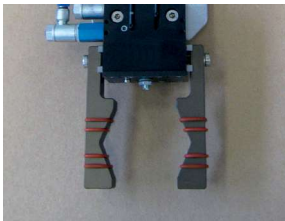
▶ Proven technology

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

▶ Dirt protection

Using the scrapers on the guides, you can reliably use the gripper even under the harshest conditions

▶ 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

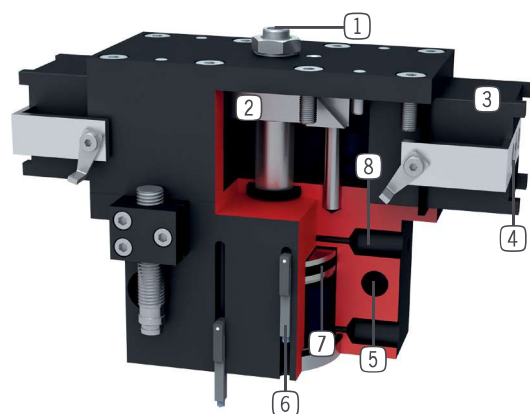
HOW TO ORDER CORRECTLY

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

Order no.	GP280	<input type="checkbox"/>	<input type="checkbox"/>	
High force		S		
Without intergrated spring			-99	



► BENEFITS IN DETAIL



- 1 Stroke adjustment**
 - infinitely adjustable in „open“ movement
 - adjusting screw in delivery
- 2 Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
 - high force transfer
- 3 Square guide**
 - high forces and moments capacity
- 4 Gripper jaw**
 - individual gripper finger mounting
- 5 Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 6 Sensing slot**
 - mounting and positioning of magnetic field sensors
- 7 Drive**
 - double-acting pneumatic cylinder
- 8 Energy supply**
 - possible from several sides

► SERIES CHARACTERISTICS



Number of installation sizes	4
Stroke per jaw	6 mm - 40 mm
Gripping force	160 N - 4500 N
Weight	0,33 kg - 8,3 kg
AP class	3



10 million maintenance-free cycles (max.)



Spring closing C



High-strength S



Inductive sensor



IP40



Magnetic field sensor



Purged air

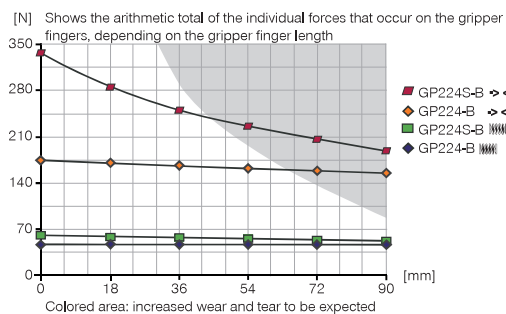
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP224

▶ PRODUCT SPECIFICATIONS

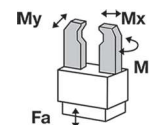


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	8
Fa [N]	250

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE15H7X4



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04

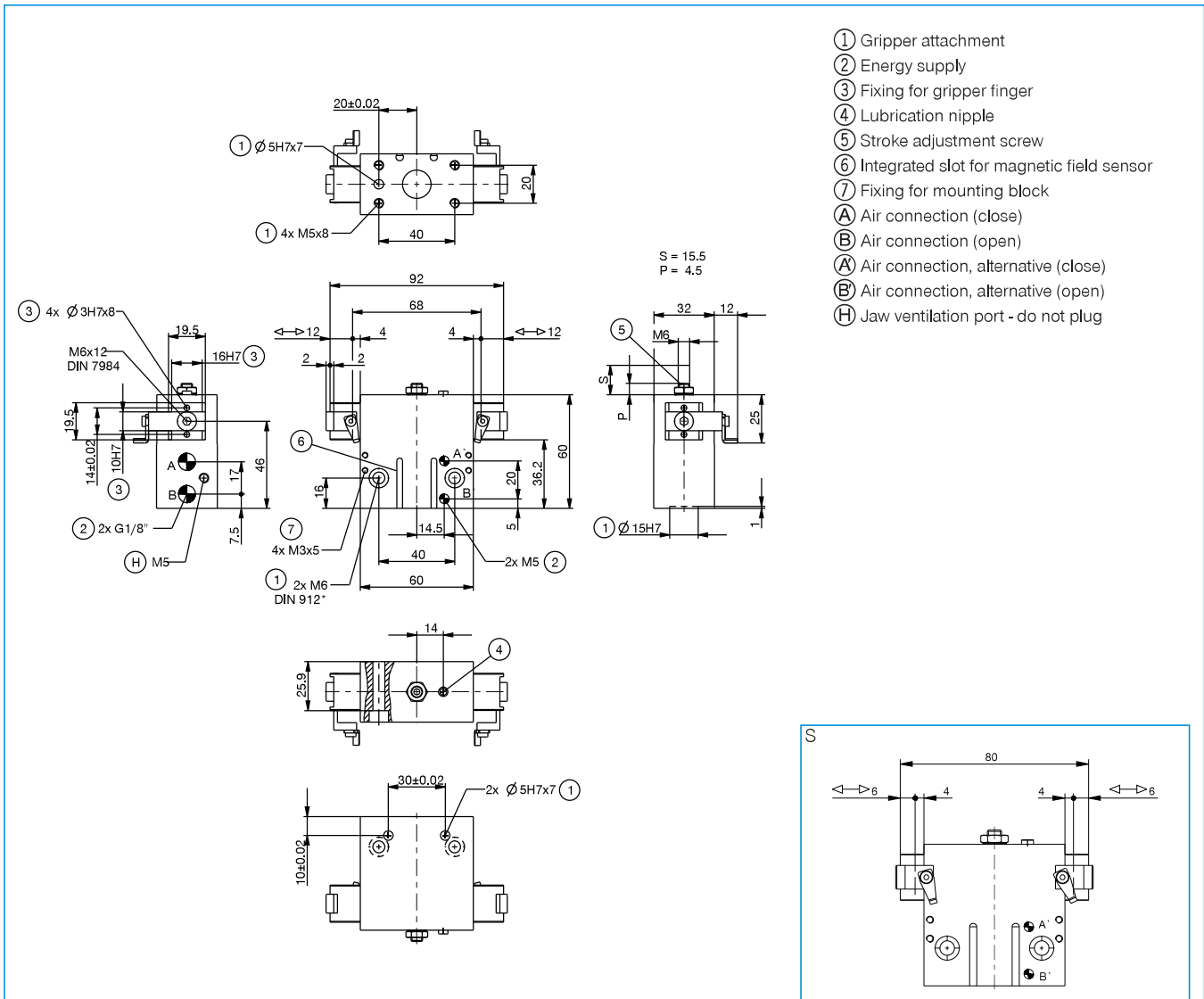


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*			
	GP224-B	GP224-B-99	GP224S-B	GP224S-B-99
Stroke per jaw [mm]	12	12	6	6
Gripping force in closing [N]	170	160	335	335
Gripping force in opening [N]		160		335
Gripping force secured by spring min. [N]	10		35	
Closing time [s]	0,06	0,04	0,06	0,04
Opening time [s]	0,06	0,04	0,06	0,04
Repetition accuracy +/- [mm]	0,05	0,05	0,05	0,05
Operating pressure min. [bar]	5	3	5	3
Operating pressure max. [bar]	8	8	8	8
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	12	12	12	12
Weight [kg]	0,33	0,33	0,33	0,33

*All data measured at 6 bar



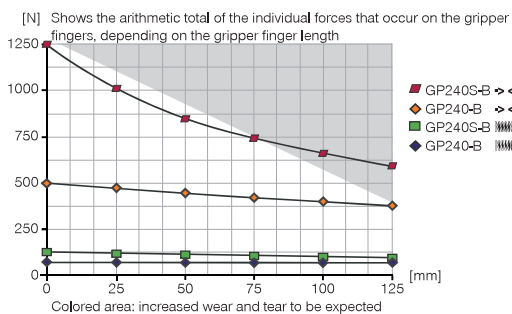
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP240

▶ PRODUCT SPECIFICATIONS

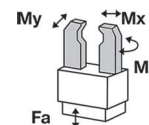


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	15
Mx [Nm]	30
My [Nm]	15
Fa [N]	400

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04

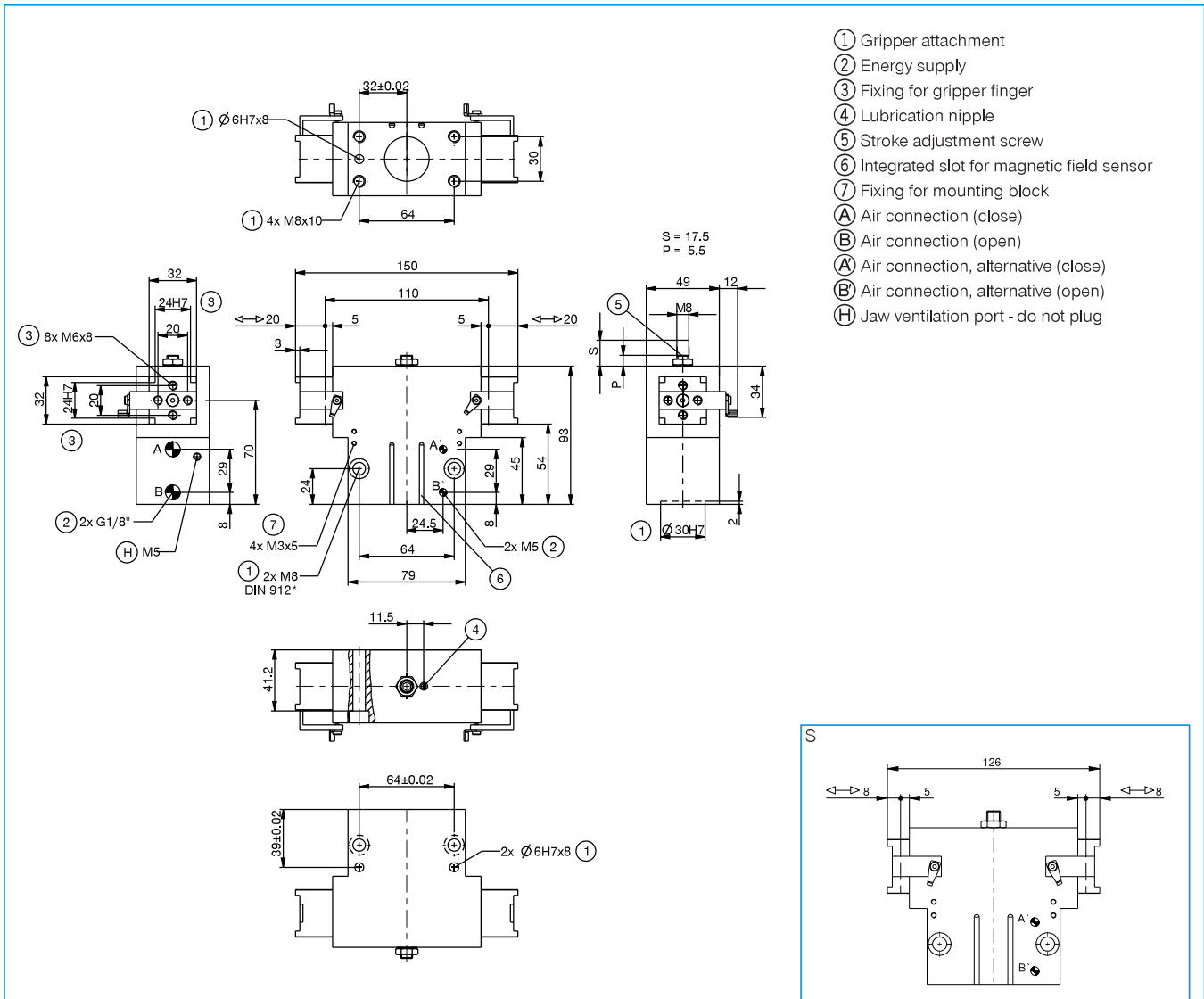


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*			
	GP240-B	GP240-B-99	GP240S-B	GP240S-B-99
Stroke per jaw [mm]	20	20	8	8
Gripping force in closing [N]	510	435	1290	1105
Gripping force in opening [N]		435		1105
Gripping force secured by spring min. [N]	75		185	
Closing time [s]	0.1	0.08	0.1	0.08
Opening time [s]	0.1	0.08	0.1	0.08
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	3	5	3
Operating pressure max. [bar]	8	8	8	8
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm ³]	49	49	49	49
Weight [kg]	1.2	1.2	1.2	1.2

*All data measured at 6 bar



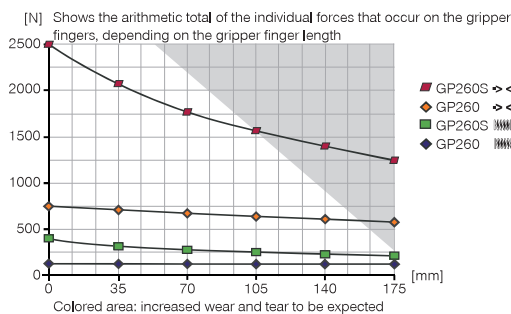
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP260

▶ PRODUCT SPECIFICATIONS

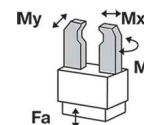


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	25
Mx [Nm]	45
My [Nm]	25
Fa [N]	600

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE40H7X6



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



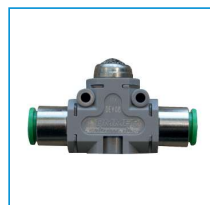
Straight Fittings - Quick
Connect Style

GV1-8X8



Angled Fittings - Quick
Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

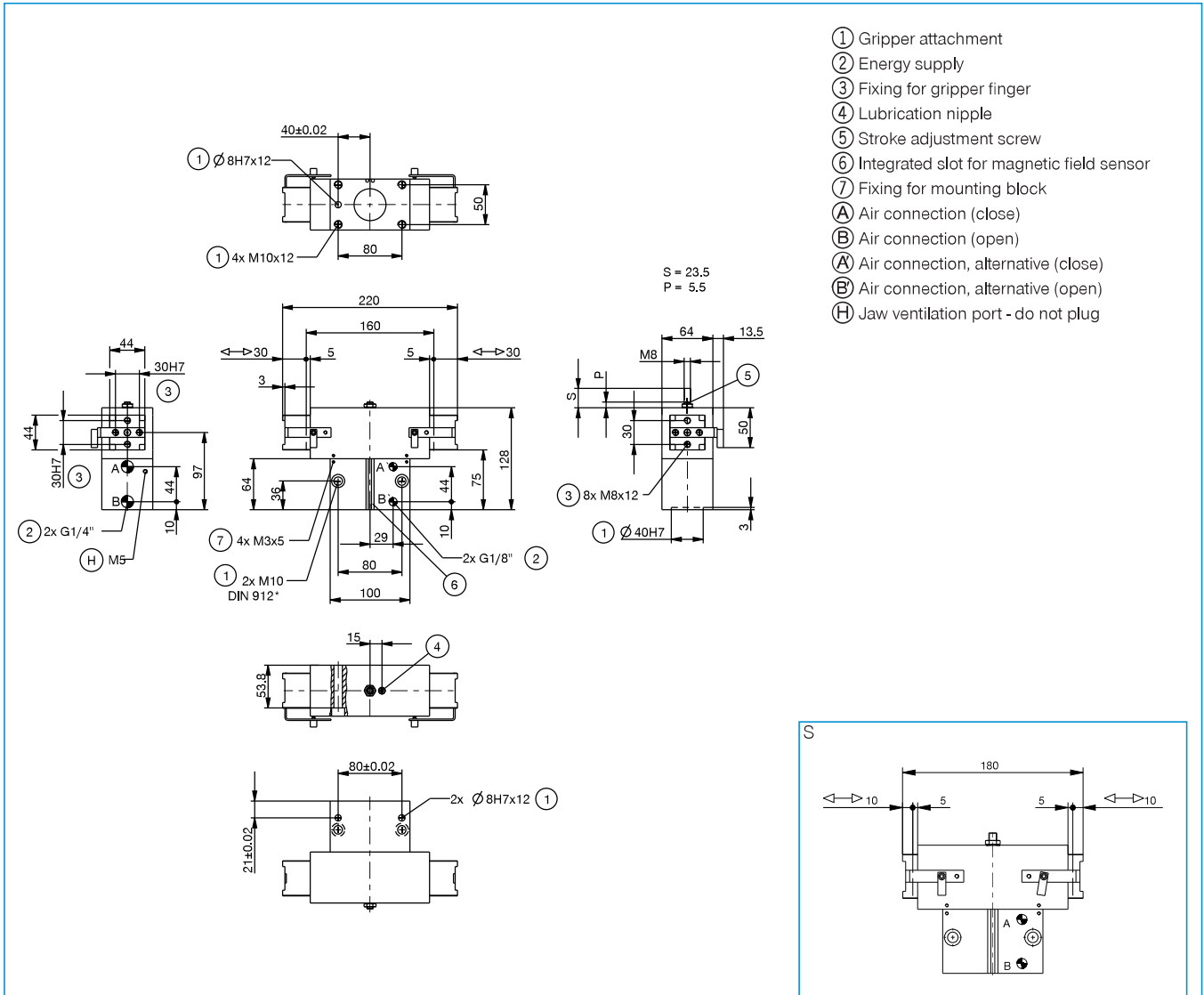


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*			
	GP260	GP260-99	GP260S	GP260S-99
Stroke per jaw [mm]	30	30	10	10
Gripping force in closing [N]	800	665	2480	2120
Gripping force in opening [N]		665		2120
Gripping force secured by spring min. [N]	135		360	
Closing time [s]	0.15	0.1	0.15	0.1
Opening time [s]	0.15	0.1	0.15	0.1
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	3	5	3
Operating pressure max. [bar]	8	8	8	8
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	115	115	115	115
Weight [kg]	2.9	2.9	2.9	2.9

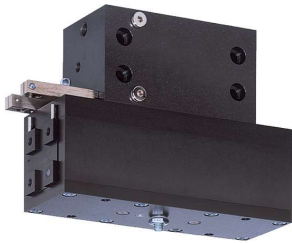
*All data measured at 6 bar



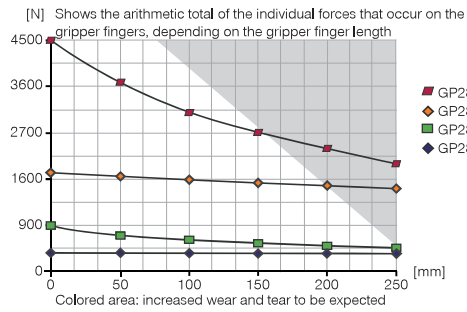
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP280

▶ PRODUCT SPECIFICATIONS

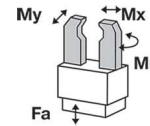


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	40
Mx [Nm]	75
My [Nm]	40
Fa [N]	1000

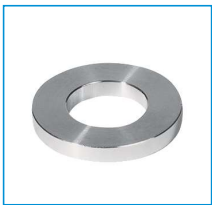
▶ INCLUDED IN DELIVERY



Mounting block

KB8-23

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE45H7X6



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



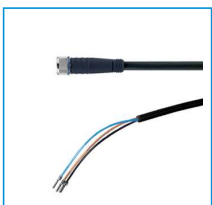
Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Straight Fittings - Quick
Connect Style

GV1-8X8



Angled Fittings - Quick
Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

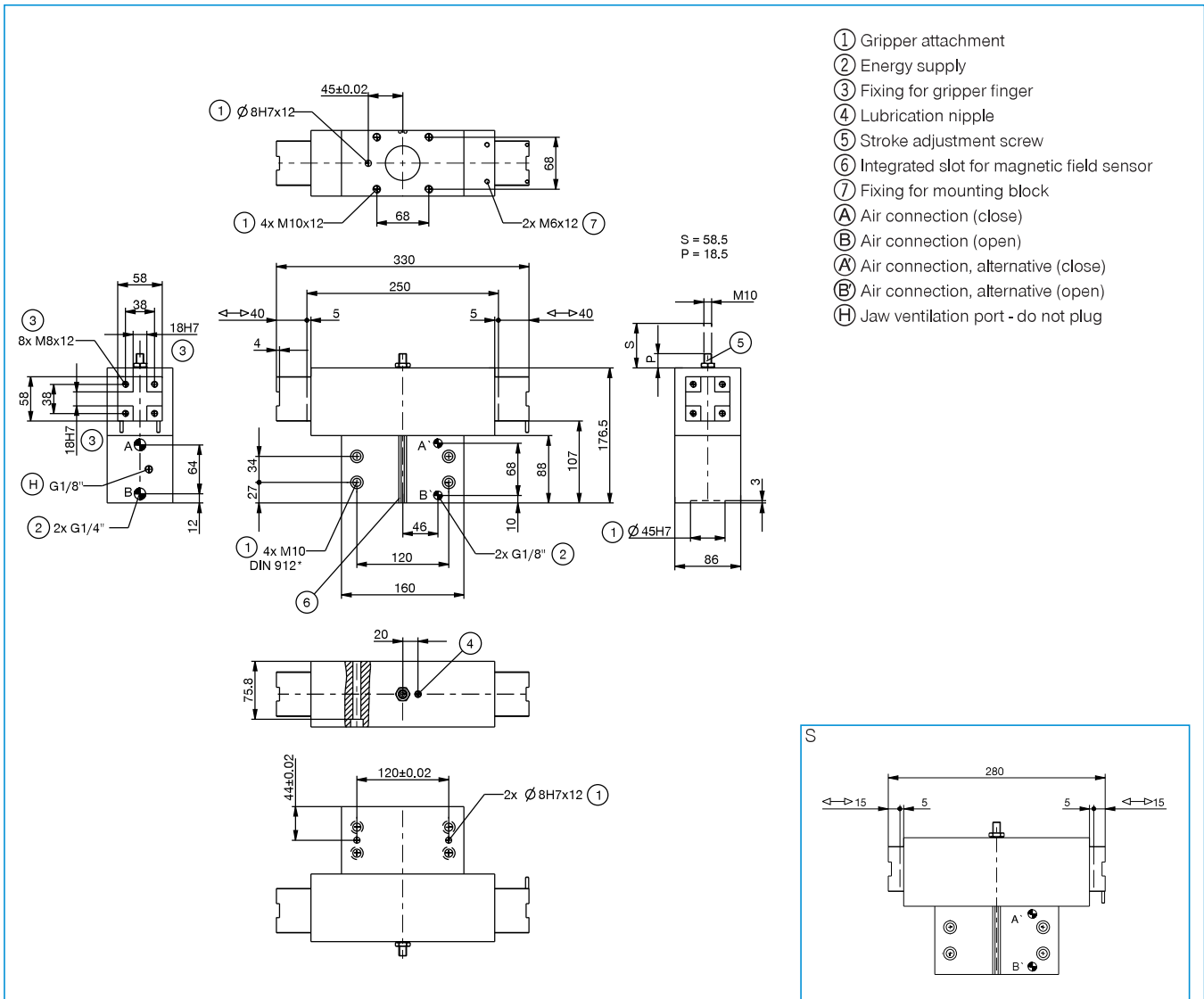


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*			
	GP280	GP280-99	GP280S	GP280S-99
Stroke per jaw [mm]	40	40	15	15
Gripping force in closing [N]	1690	1390	4500	3690
Gripping force in opening [N]		1390		3690
Gripping force secured by spring min. [N]	300		810	
Closing time [s]	0.25	0.2	0.25	0.2
Opening time [s]	0.25	0.2	0.25	0.2
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	5	5	5
Operating pressure max. [bar]	10	10	10	10
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	300	300	300	300
Weight [kg]	8,3	8,3	8,3	8,3

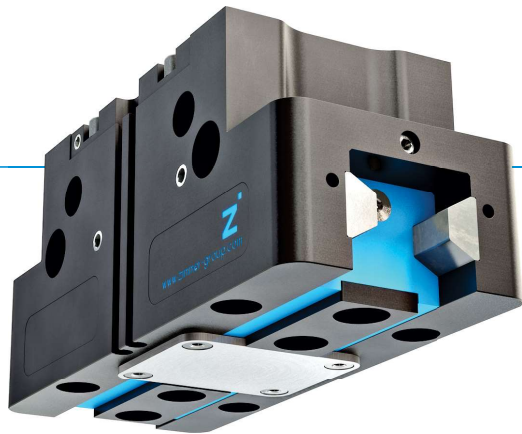
*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

SERIES GPP5000

▶ PRODUCT ADVANTAGES



“The Universal One”

- ▶ Up to 30% more gripping force than the benchmark
- ▶ 10% more static forces and moments than the benchmark
- ▶ Gripper fingers up to 10% longer than the benchmark
- ▶ Gripper fingers weight up to 15% higher than the benchmark
- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance

▶ 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

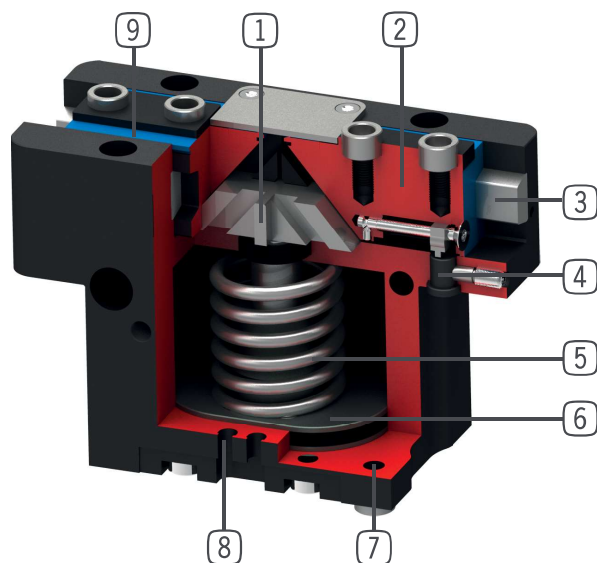
HOW TO ORDER CORRECTLY

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

Order no.	GPP5010	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-A
Basis version	N				
High force	S				
For external gripping, self-locking, spring closing			C		
For internal gripping, self-locking, spring opening			O		
temperature-resistant version to 130 °C				20	
Protector version IP67 for use in adverse environments (with purged air)				21	
temperature-resistant protector version IP67 for use in adverse environments (with purged air) to 130 °C				24	



▶ BENEFITS IN DETAIL



- 1 Wedge hook mechanism**
 - Supports to absorb high forces and moments
 - Synchronized gripper jaw movement
- 2 Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
 - Lubricated for life via incorporated lubrication slots
- 3 Steel Linear Guide**
 - Steel in steel guide
 - Enables use of extremely long gripper fingers
- 4 Mounting block**
 - mounting for inductive proximity switch
- 5 Integrated gripping force safety device**
 - Spring built into cylinder chamber as an energy store
- 6 Drive**
 - Double-acting pneumatic rotor cylinder
- 7 Mounting and positioning**
 - Alternatively, on several sides for customized mounting
 - Pneumatic and electrical versions identical apart from height
- 8 Sensing slot**
 - mounting and positioning of magnetic field sensors
- 9 Dual lip seal**
 - IP64 and up to IP67 (with purged air) for Protector version
 - Prevents grease from being squeezed out, increasing service life

▶ SERIES CHARACTERISTICS



Number of installation sizes	11
Stroke per jaw	2,5 mm - 45 mm
Gripping force	140 N - 26950 N
Weight	0,08 kg - 41,5 kg
AP class	5



30 million maintenance-free cycles (max.)



High-strength S



IP67



Temperature-resistant



Spring closing C



Inductive sensor



Corrosion resistance



Purged air



Spring opening O



IP64



Magnetic field sensor

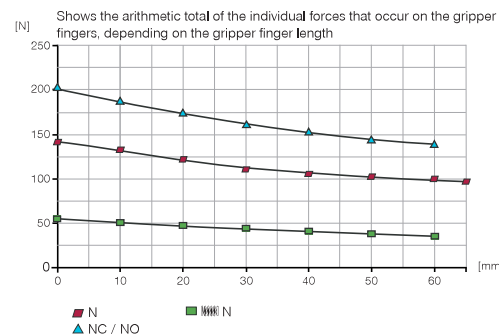
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5003

▶ PRODUCT SPECIFICATIONS

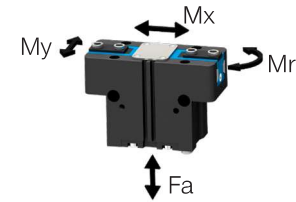


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	7
Mx [Nm]	14
My [Nm]	13
Fa [N]	550

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5003N-00-A	GPP5003NC-00-A	GPP5003NO-00-A
Stroke per jaw [mm]	2,5	2,5	2,5
Gripping force in closing [N]	140	195	
Gripping force in opening [N]	150	150	205
Gripping force secured by spring min. [N]		55	55
Closing time [s]	0,01	0,01	0,025
Opening time [s]	0,01	0,025	0,01
Permissible weight per jaw max [kg]	0,12	0,12	0,12
Length of the gripper fingers max. [mm]	65	60	60
Repetition accuracy +/- [mm]	0,01	0,01	0,01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2,1	4,8	4,8
Protection to IEC 60529	IP64	IP64	IP64
Weight [kg]	0,08	0,1	0,1

▶ Technical Data - Protector Version

Order no.	GPP5003N-21-A	GPP5003NC-21-A	GPP5003NO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0,1	0,12	0,12

▶ Technical Data - High Temperature Version

Order no.	GPP5003N-20-A	GPP5003NC-20-A	GPP5003NO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130

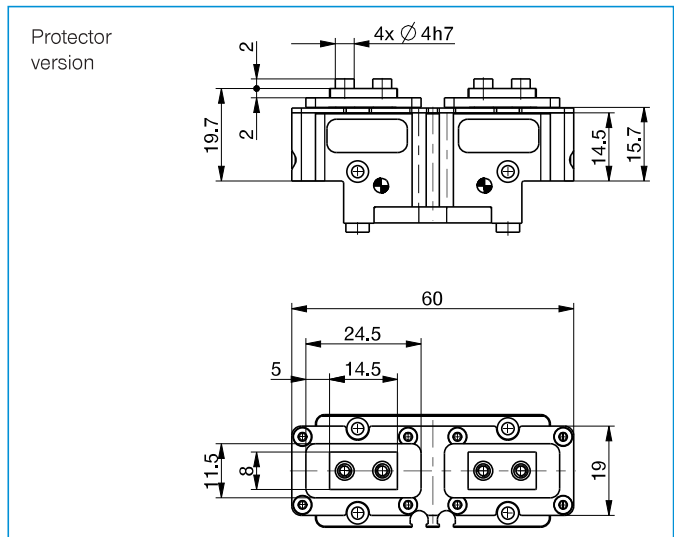
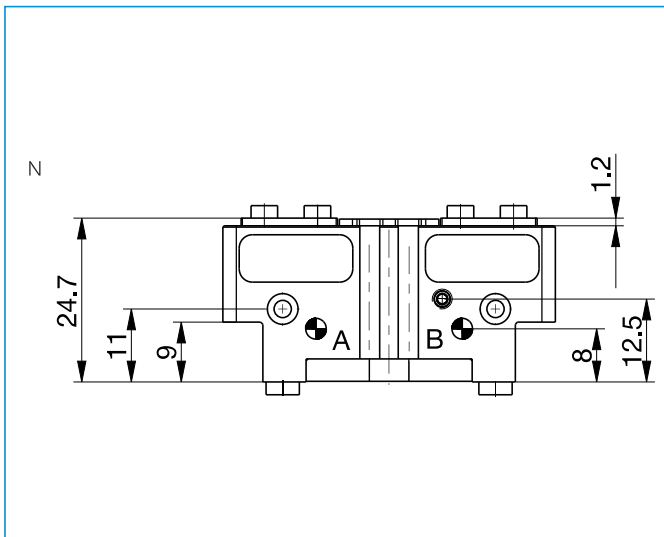
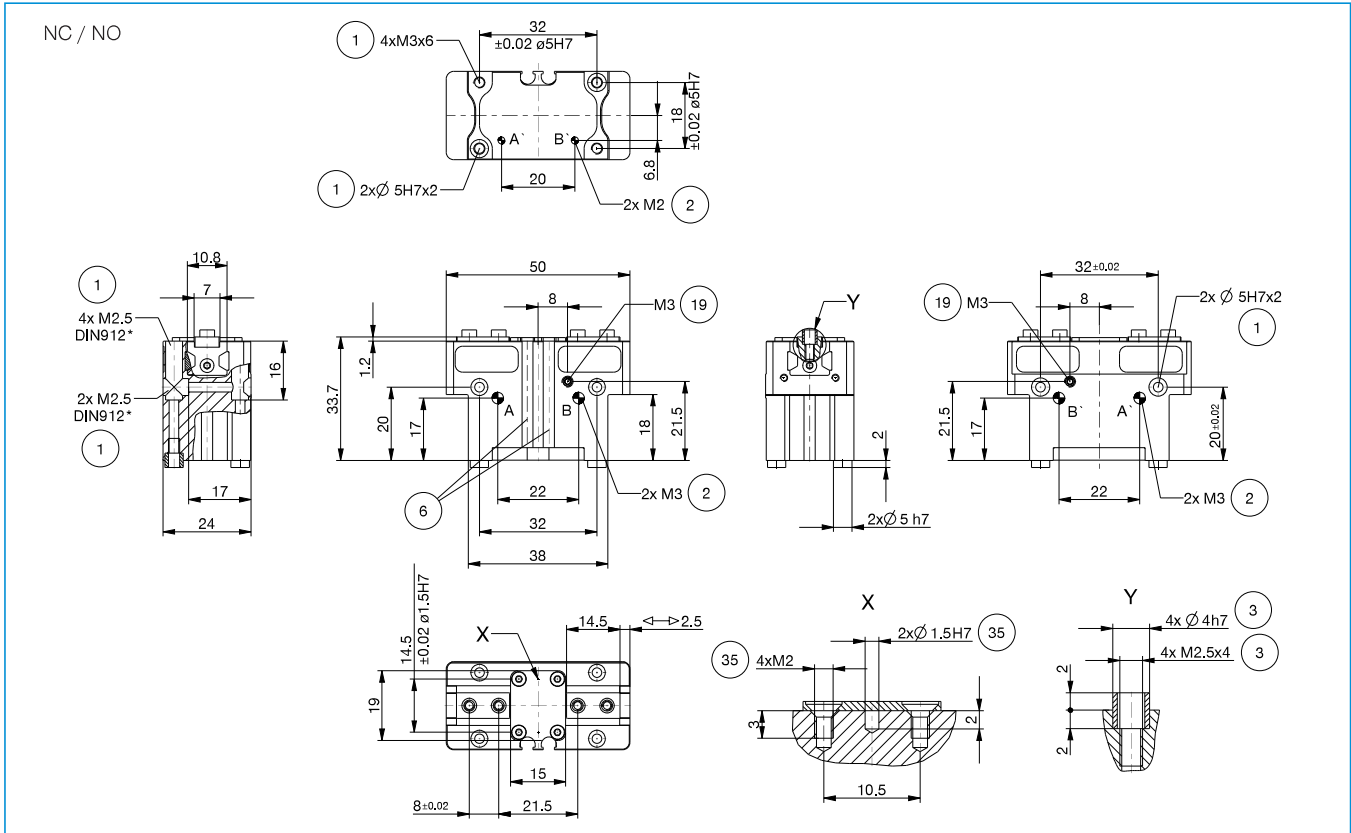
▶ Technical Data - High Temperature Protector Version

Order no.	GPP5003N-24-A	GPP5003NC-24-A	GPP5003NO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0,1	0,12	0,12

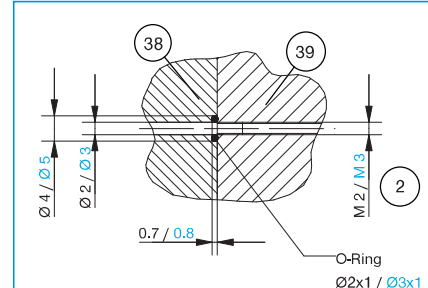
* All data measured at 6 bar

** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

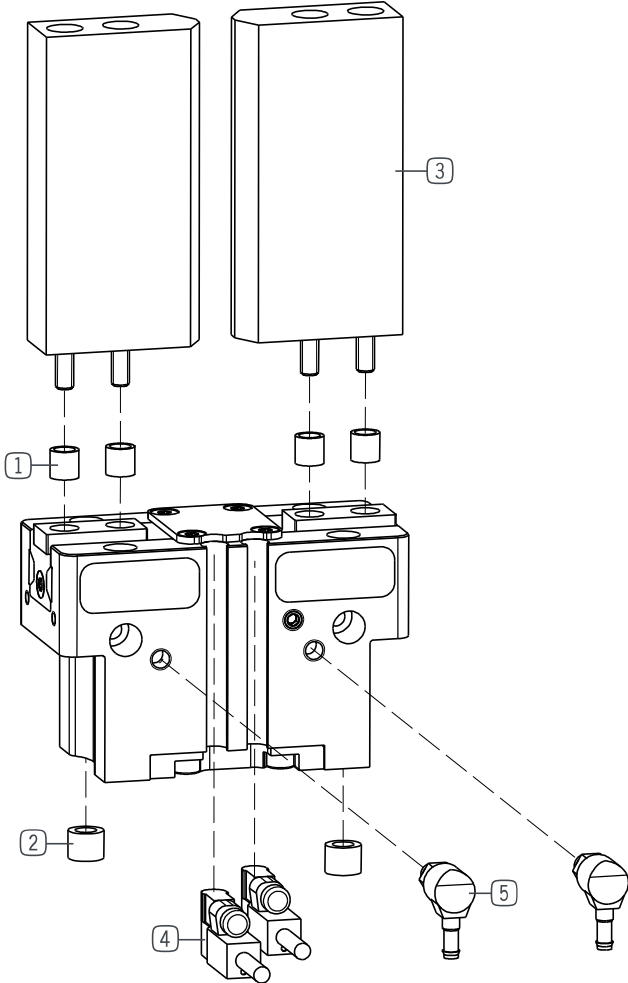


- | | |
|--|---------------------------------------|
| ① Gripper attachment | ③⑧ Adapter |
| ② Energy supply | ③⑨ Gripper |
| ③ Fixing for gripper finger | Ⓐ Air connection (close) |
| ⑥ Integrated slot for magnetic field sensor | Ⓑ Air connection (open) |
| ⑱ Air purge connection option | Ⓐ Air connection, alternative (close) |
| ⑳ Attachment option for customer-specific fittings | Ⓑ Air connection, alternative (open) |



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5003



INCLUDED IN DELIVERY



Centering Disc

DST06510



Centering Disc

015761

► **RECOMMENDED ACCESSORIES**



Universal jaw aluminium

UB5003AL



Universal jaw steel

UB5003ST



Rubber Coated Tape Knobbed

KF50N



Aluminum adjustment jaw

EB5003AL



Steel adjustment jaw

EB5003ST



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3



Quick Exhaust Valve

DEV04

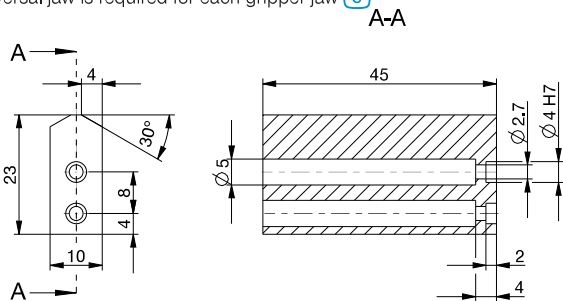


Pressure Safety Valve

DSV1-8

► **TECHNICAL DRAWINGS ACCESSORIES**

One universal jaw is required for each gripper jaw ³



2-JAW PARALLEL GRIPPERS

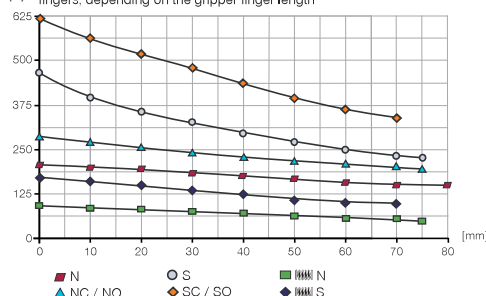
INSTALLATION SIZE GPP5004

▶ PRODUCT SPECIFICATIONS



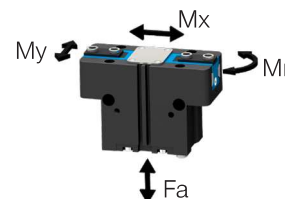
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	14
Mx [Nm]	29
My [Nm]	23
Fa [N]	750

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5004N-00-A	GPP5004NC-00-A	GPP5004NO-00-A	GPP5004S-00-A	GPP5004SC-00-A	GPP5004SO-00-A
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	200	280		440	600	
Gripping force in opening [N]	215		295	470		630
Gripping force secured by spring min. [N]		80	80		160	160
Closing time [s]	0,015	0,015	0,025	0,015	0,015	0,025
Opening time [s]	0,015	0,025	0,015	0,015	0,025	0,015
Permissible weight per jaw max [kg]	0,2	0,2	0,2	0,2	0,2	0,2
Length of the gripper fingers max. [mm]	80	75	75	75	70	70
Repetition accuracy +/- [mm]	0,01	0,01	0,01	0,01	0,01	0,01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	5	12	12	5	12	12
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0,16	0,21	0,21	0,16	0,21	0,21

▶ Technical Data - Protector Version

Order no.	GPP5004N-21-A	GPP5004NC-21-A	GPP5004NO-21-A	GPP5004S-21-A	GPP5004SC-21-A	GPP5004SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0,25	0,3	0,3	0,25	0,3	0,3

▶ Technical Data - High Temperature Version

Order no.	GPP5004N-20-A	GPP5004NC-20-A	GPP5004NO-20-A	GPP5004S-20-A	GPP5004SC-20-A	GPP5004SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

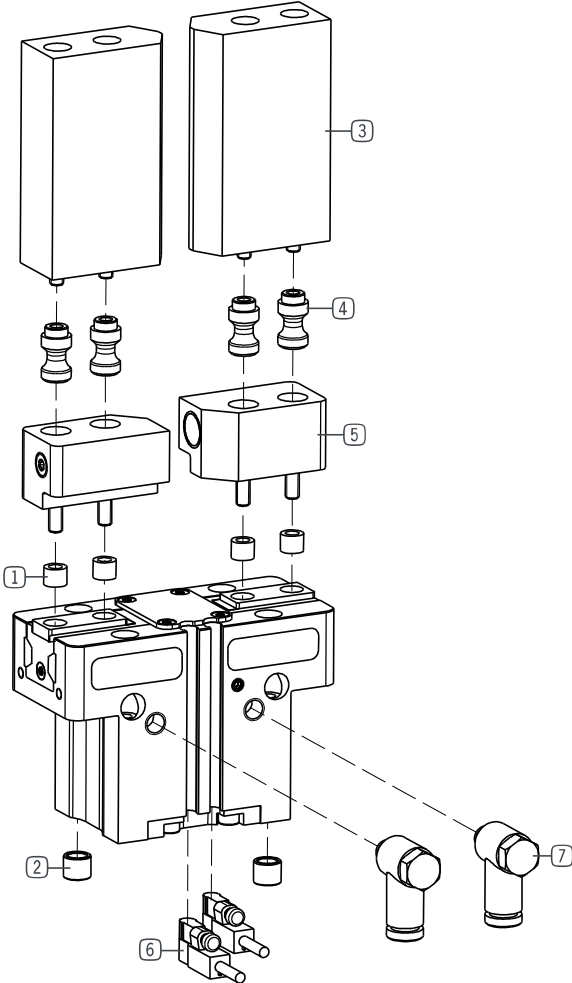
Order no.	GPP5004N-24-A	GPP5004NC-24-A	GPP5004NO-24-A	GPP5004S-24-A	GPP5004SC-24-A	GPP5004SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0,25	0,3	0,3	0,25	0,3	0,3

* All data measured at 6 bar

** with purged air (max. 0,5 bar)

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5004



▶ INCLUDED IN DELIVERY



Centering Disc

015761



Centering Disc

024230

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5004AL



Universal jaw steel

UB5004ST



Aluminum adjustment jaw

EB5004AL



Steel adjustment jaw

EB5004ST



Changeable jaw, loose-part-set

WB5004L



Changeable jaw, fix-part

WB5004F



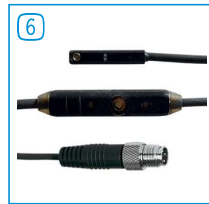
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



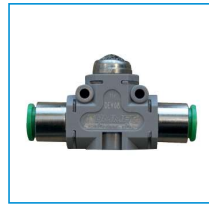
Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Quick Exhaust Valve

DEV04

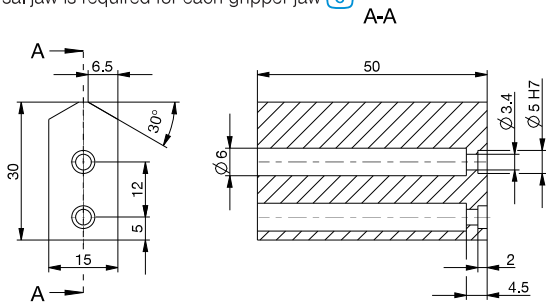


Pressure Safety Valve

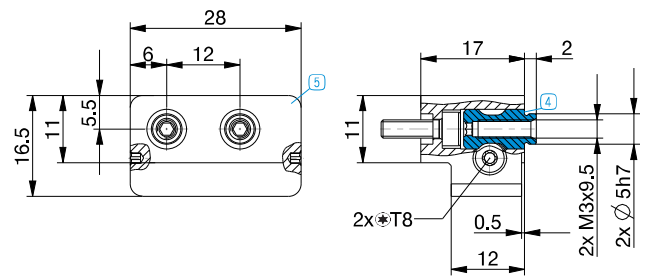
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



2-JAW PARALLEL GRIPPERS

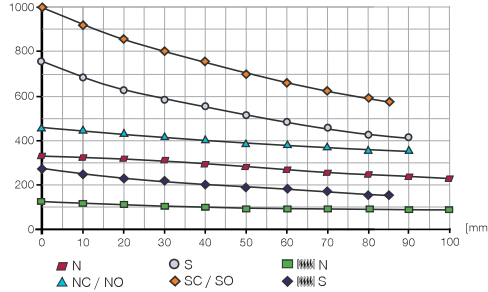
INSTALLATION SIZE GPP5006

▶ PRODUCT SPECIFICATIONS



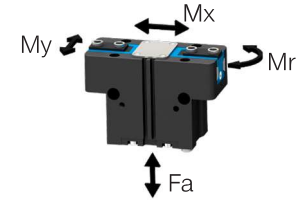
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5006N-00-A	GPP5006NC-00-A	GPP5006NO-00-A	GPP5006S-00-A	GPP5006SC-00-A	GPP5006SO-00-A
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	330	455		740	1020	
Gripping force in opening [N]	360		485	800		1080
Gripping force secured by spring min. [N]		125	125		280	280
Closing time [s]	0,025	0,015	0,035	0,025	0,015	0,035
Opening time [s]	0,025	0,035	0,015	0,025	0,035	0,015
Permissible weight per jaw max [kg]	0,4	0,4	0,4	0,4	0,4	0,4
Length of the gripper fingers max. [mm]	100	90	90	90	85	85
Repetition accuracy +/- [mm]	0,01	0,01	0,01	0,01	0,01	0,01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	11	24	24	11	24	24
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0,28	0,35	0,35	0,28	0,35	0,35

▶ Technical Data - Protector Version

Order no.	GPP5006N-21-A	GPP5006NC-21-A	GPP5006NO-21-A	GPP5006S-21-A	GPP5006SC-21-A	GPP5006SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0,37	0,44	0,44	0,37	0,44	0,44

▶ Technical Data - High Temperature Version

Order no.	GPP5006N-20-A	GPP5006NC-20-A	GPP5006NO-20-A	GPP5006S-20-A	GPP5006SC-20-A	GPP5006SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

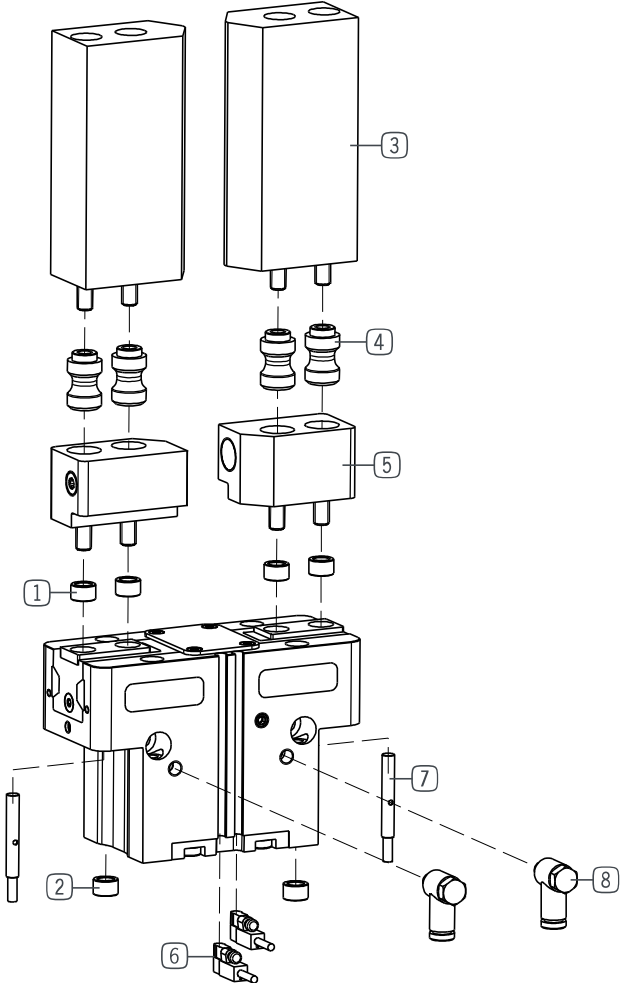
Order no.	GPP5006N-24-A	GPP5006NC-24-A	GPP5006NO-24-A	GPP5006S-24-A	GPP5006SC-24-A	GPP5006SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0,37	0,44	0,44	0,37	0,44	0,44

* All data measured at 6 bar

** with purged air (max. 0,5 bar)

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5006



▶ INCLUDED IN DELIVERY



Centering Disc

024230



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5006AL



Universal jaw steel

UB5006ST



Aluminum adjustment jaw

EB5006AL



Steel adjustment jaw

EB5006ST



Changeable jaw, loose-part-set

WB5006L



Changeable jaw, fix-part

WB5006F



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Angled Fittings - Quick Connect Style

WVM5



Pressure Safety Valve

DSV1-8



Compensation module N / S

ZUB5006PNS

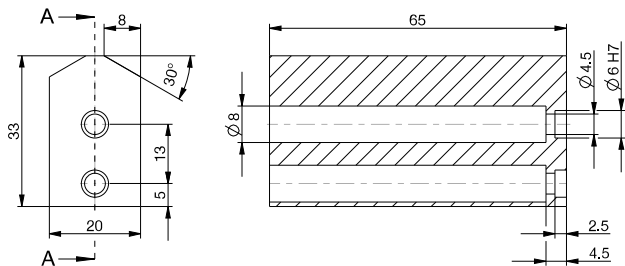


Compensation module NC / NO / SC / SO

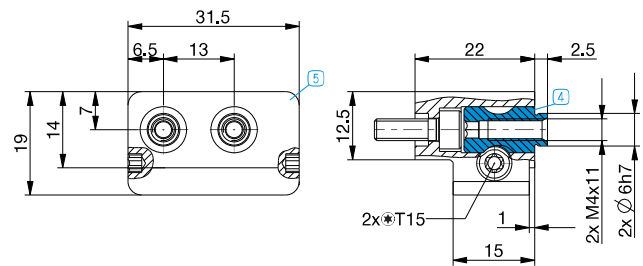
ZUB5006PCO

▶ TECHNICAL DRAWINGS ACCESSORIES

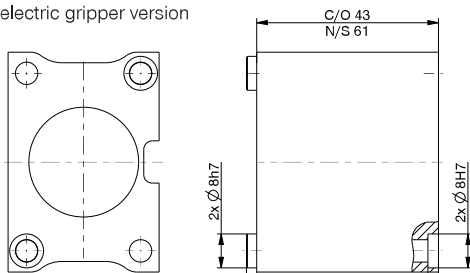
One universal jaw is required for each gripper jaw **3** A-A



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



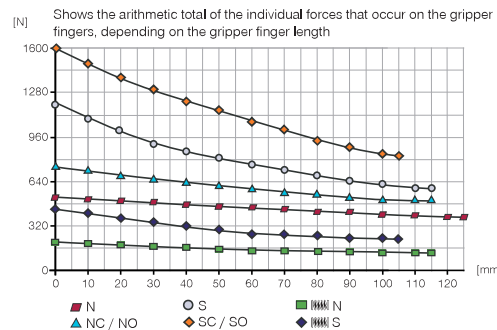
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5008

▶ PRODUCT SPECIFICATIONS

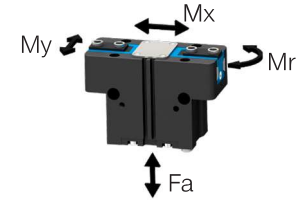


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5008N-00-A	GPP5008NC-00-A	GPP5008NO-00-A	GPP5008S-00-A	GPP5008SC-00-A	GPP5008SO-00-A
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	520	710		1150	1580	
Gripping force in opening [N]	560		750	1240		1670
Gripping force secured by spring min. [N]		190	190		430	430
Closing time [s]	0.035	0.025	0.045	0.035	0.025	0.045
Opening time [s]	0.035	0.045	0.025	0.035	0.045	0.025
Permissible weight per jaw max [kg]	0.7	0.7	0.7	0.7	0.7	0.7
Length of the gripper fingers max. [mm]	125	115	115	115	105	105
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	22	43	43	22	43	43
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.53	0.63	0.63	0.53	0.63	0.63

▶ Technical Data - Protector Version

Order no.	GPP5008N-21-A	GPP5008NC-21-A	GPP5008NO-21-A	GPP5008S-21-A	GPP5008SC-21-A	GPP5008SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.66	0.76	0.76	0.66	0.76	0.76

▶ Technical Data - High Temperature Version

Order no.	GPP5008N-20-A	GPP5008NC-20-A	GPP5008NO-20-A	GPP5008S-20-A	GPP5008SC-20-A	GPP5008SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

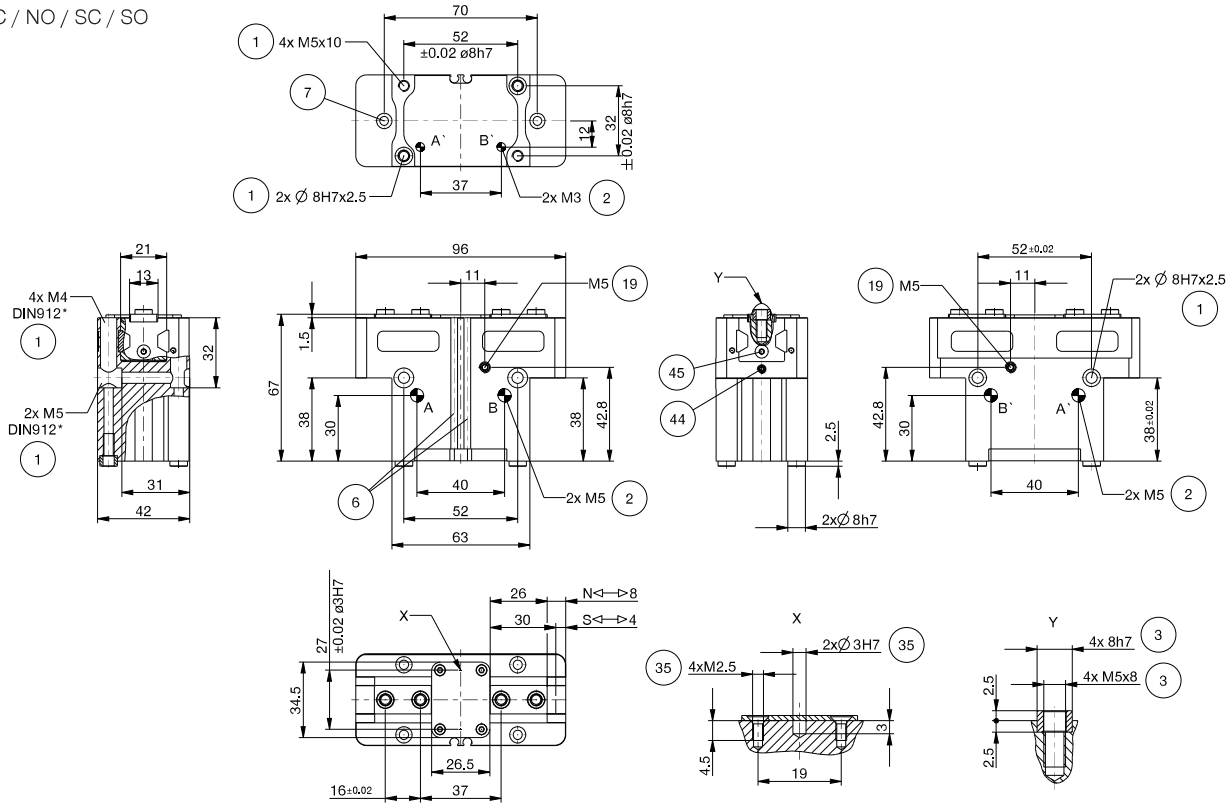
Order no.	GPP5008N-24-A	GPP5008NC-24-A	GPP5008NO-24-A	GPP5008S-24-A	GPP5008SC-24-A	GPP5008SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.66	0.76	0.76	0.66	0.76	0.76

* All data measured at 6 bar

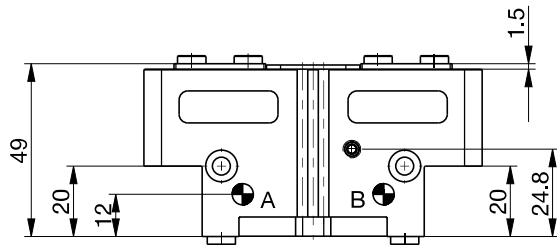
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

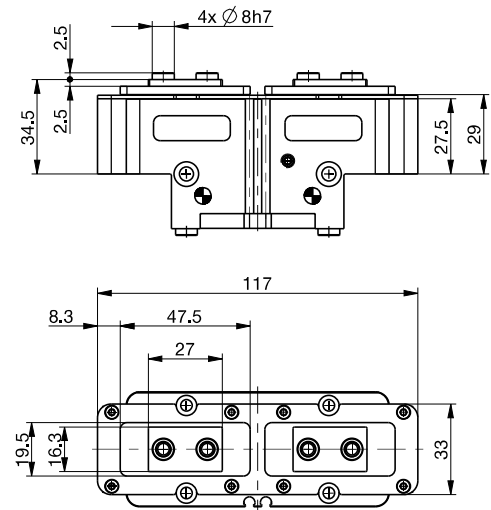
NC / NO / SC / SO



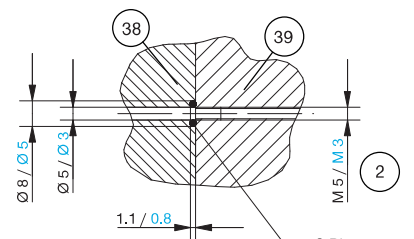
N / S



Protector version



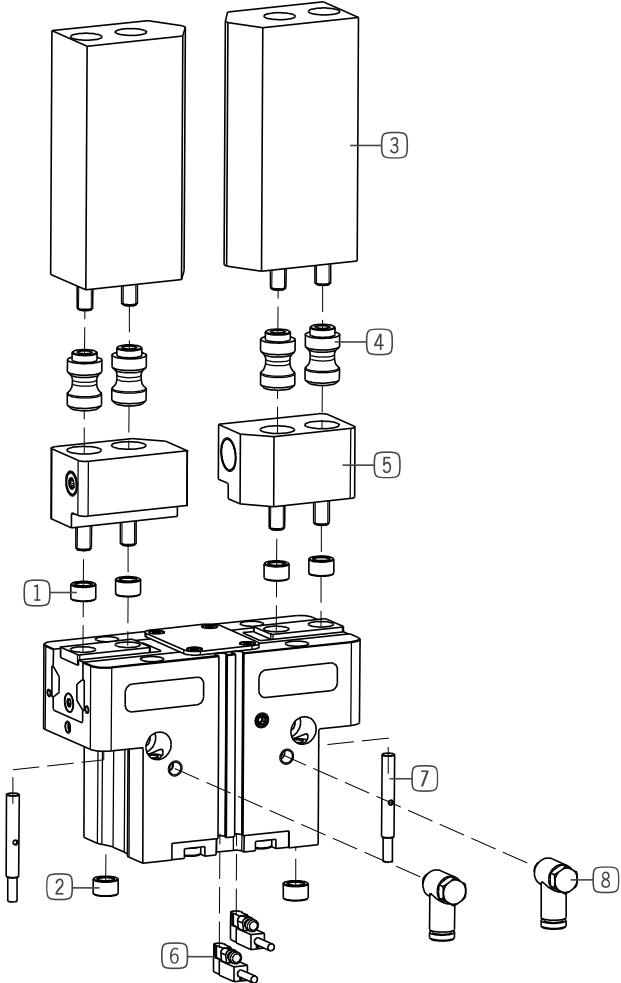
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉔ Gripper
- ㉕ Clamp for sensor
- ㉖ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



O-Ring
Ø 5x1.5 / Ø 3x1

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5008



▶ INCLUDED IN DELIVERY



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



Aluminum adjustment jaw

EB5008AL



Steel adjustment jaw

EB5008ST



Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Angled Fittings - Quick Connect Style

WVM5



Pressure Safety Valve

DSV1-8



Compensation module N / S

ZUB5008PNS

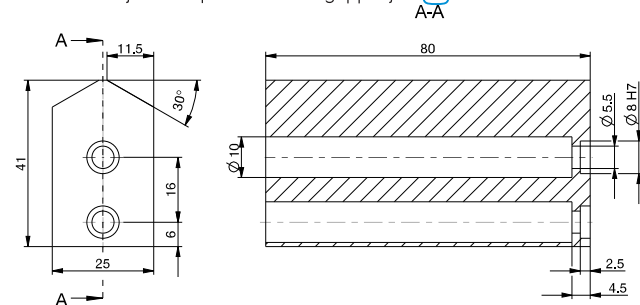


Compensation module NC / NO / SC / SO

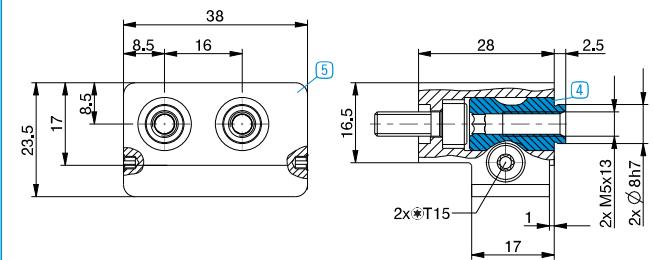
ZUB5008PCO

▶ TECHNICAL DRAWINGS ACCESSORIES

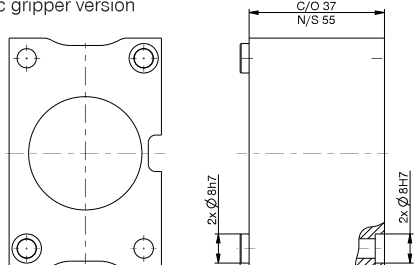
One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



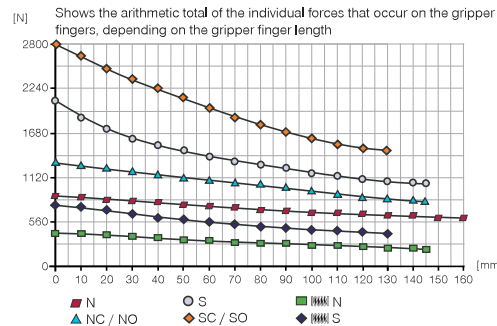
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5010

▶ PRODUCT SPECIFICATIONS

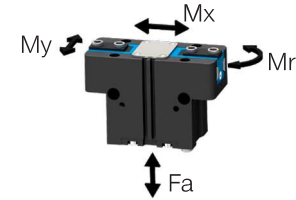


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5010N-00-A	GPP5010NC-00-A	GPP5010NO-00-A	GPP5010S-00-A	GPP5010SC-00-A	GPP5010SO-00-A
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	885	1260		1940	2750	
Gripping force in opening [N]	945		1320	2080		2890
Gripping force secured by spring min. [N]		375	375		810	810
Closing time [s]	0.06	0.05	0.08	0.06	0.05	0.08
Opening time [s]	0.06	0.08	0.05	0.06	0.08	0.05
Permissible weight per jaw max [kg]	1.3	1.3	1.3	1.3	1.3	1.3
Length of the gripper fingers max. [mm]	160	145	145	145	130	130
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	44	92	92	44	92	92
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.87	1.09	1.09	0.87	1.09	1.09

▶ Technical Data - Protector Version

Order no.	GPP5010N-21-A	GPP5010NC-21-A	GPP5010NO-21-A	GPP5010S-21-A	GPP5010SC-21-A	GPP5010SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.99	1.31	1.31	0.99	1.31	1.31

▶ Technical Data - High Temperature Version

Order no.	GPP5010N-20-A	GPP5010NC-20-A	GPP5010NO-20-A	GPP5010S-20-A	GPP5010SC-20-A	GPP5010SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

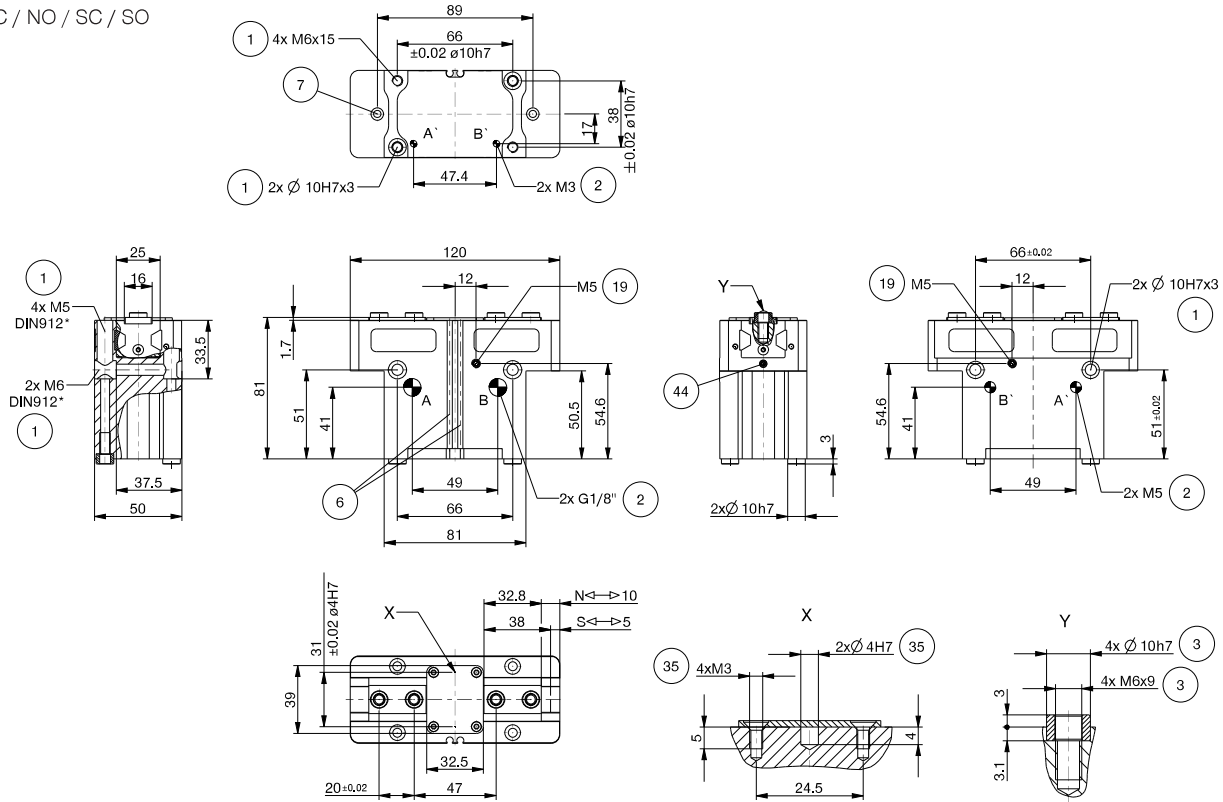
Order no.	GPP5010N-24-A	GPP5010NC-24-A	GPP5010NO-24-A	GPP5010S-24-A	GPP5010SC-24-A	GPP5010SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.99	1.31	1.31	0.99	1.31	1.31

* All data measured at 6 bar

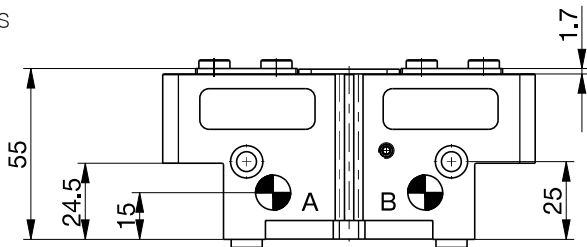
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

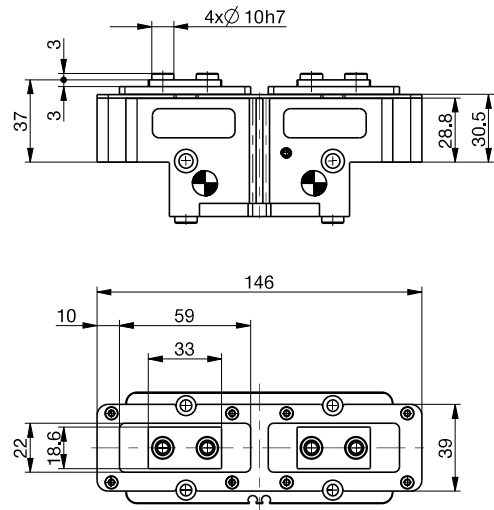
NC / NO / SC / SO



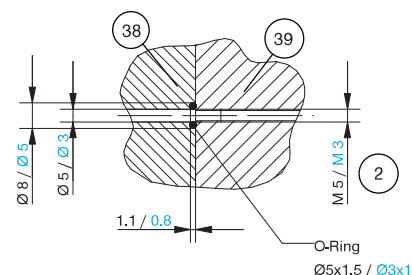
N / S



Protector version



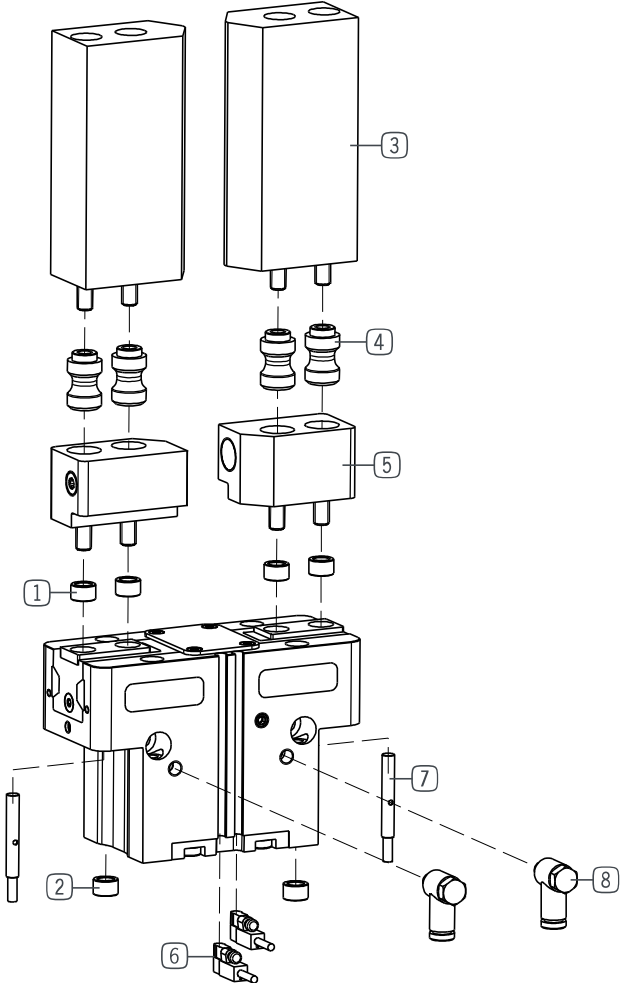
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉓ Gripper
- ㉔ Clamp for sensor
- ㉕ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



O-Ring
Ø5x1.5 / Ø3x1

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5010



► INCLUDED IN DELIVERY



Centering Disc

018187

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose-part-set

WB5010L



Changeable jaw, fix-part

WB5010F



Inductive Proximity Switch
Cable 0,3 m - Connector M8

NJ4-E2SK-01



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Angled Fittings - Quick
Connect Style

WV1-8X6



Pressure Safety Valve

DSV1-8



Compensation module
N / S

ZUB5010PNS

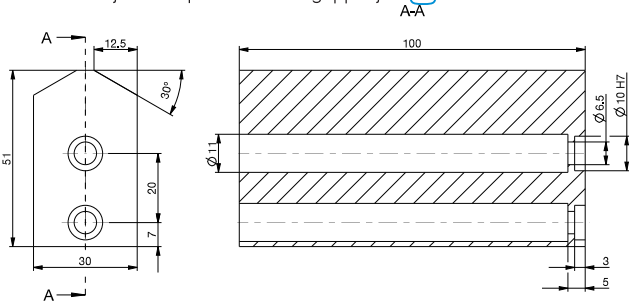


Compensation module
NC / NO / SC / SO

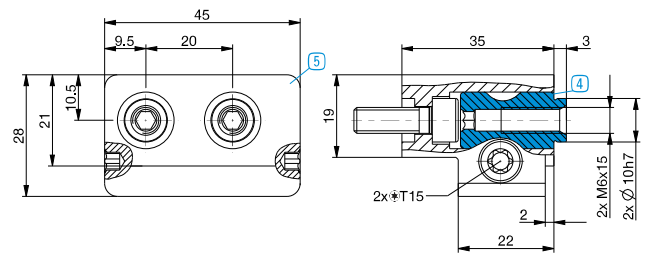
ZUB5010PCO

▶ TECHNICAL DRAWINGS ACCESSORIES

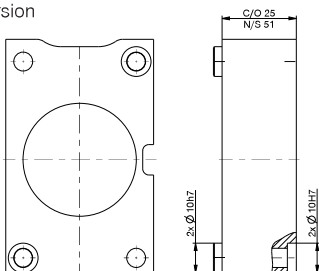
One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



2-JAW PARALLEL GRIPPERS

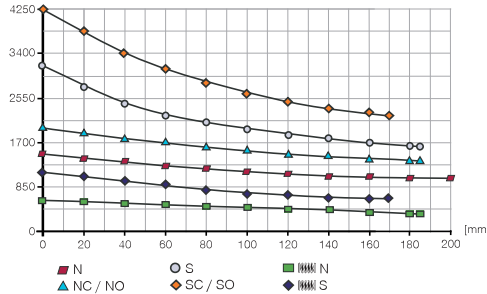
INSTALLATION SIZE GPP5013

▶ PRODUCT SPECIFICATIONS



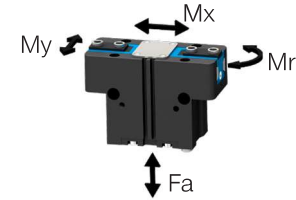
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
Mx [Nm]	150
My [Nm]	130
Fa [N]	3300

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5013N-00-A	GPP5013NC-00-A	GPP5013NO-00-A	GPP5013S-00-A	GPP5013SC-00-A	GPP5013SO-00-A
Stroke per jaw [mm]	13	13	13	6	6	6
Gripping force in closing [N]	1410	1920		3100	4220	
Gripping force in opening [N]	1490		1860	3280		4400
Gripping force secured by spring min. [N]		510	510		1120	1120
Closing time [s]	0.09	0.07	0.11	0.09	0.07	0.11
Opening time [s]	0.09	0.11	0.08	0.09	0.11	0.08
Permissible weight per jaw max [kg]	2.4	2.4	2.4	2.4	2.4	2.4
Length of the gripper fingers max. [mm]	200	185	185	185	170	170
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	88	171	171	88	171	171
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	1.5	1.9	1.9	1.5	1.9	1.9

▶ Technical Data - Protector Version

Order no.	GPP5013N-21-A	GPP5013NC-21-A	GPP5013NO-21-A	GPP5013S-21-A	GPP5013SC-21-A	GPP5013SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.86	2.26	2.26	1.86	2.26	2.26

▶ Technical Data - High Temperature Version

Order no.	GPP5013N-20-A	GPP5013NC-20-A	GPP5013NO-20-A	GPP5013S-20-A	GPP5013SC-20-A	GPP5013SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

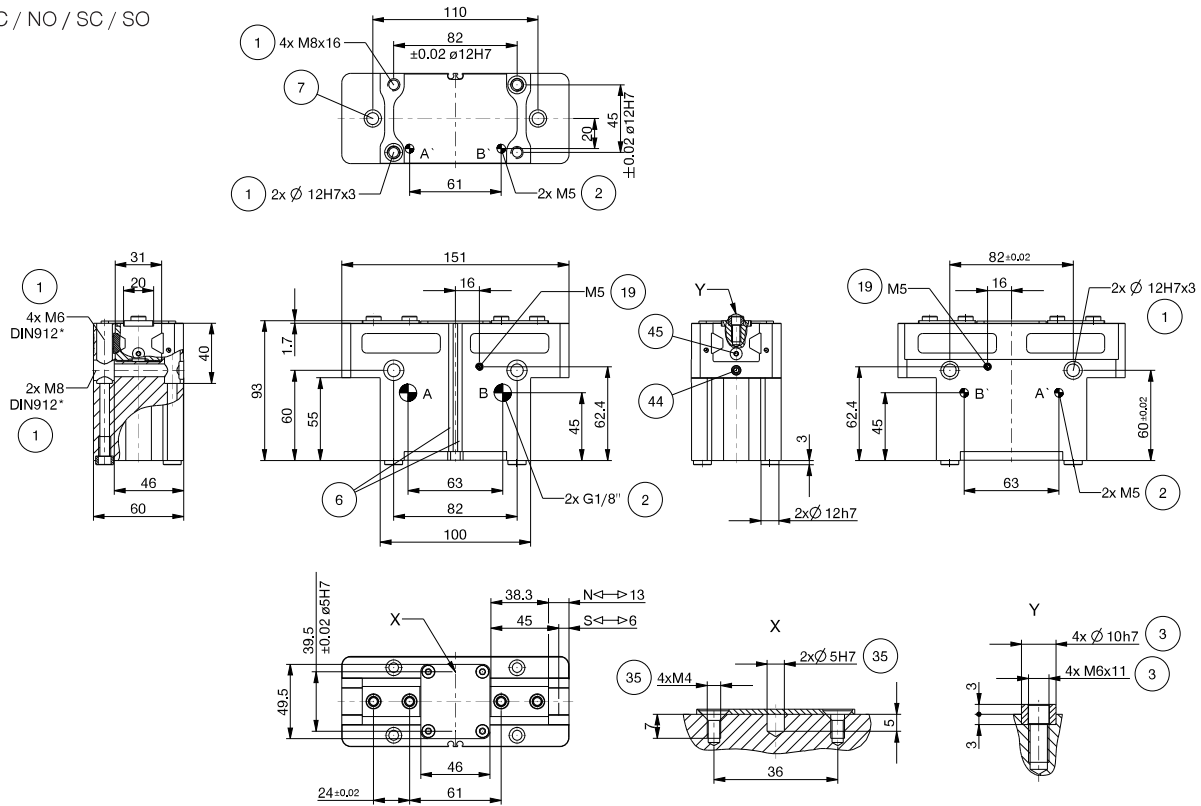
Order no.	GPP5013N-24-A	GPP5013NC-24-A	GPP5013NO-24-A	GPP5013S-24-A	GPP5013SC-24-A	GPP5013SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.86	2.26	2.26	1.86	2.26	2.26

* All data measured at 6 bar

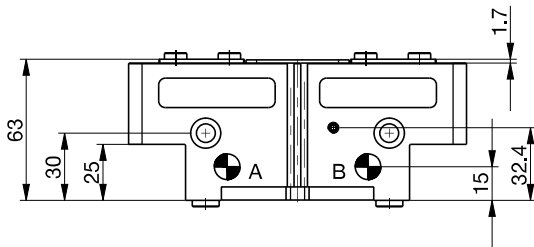
** with purged air (max. 0,5 bar)

▶ TECHNICAL DRAWINGS

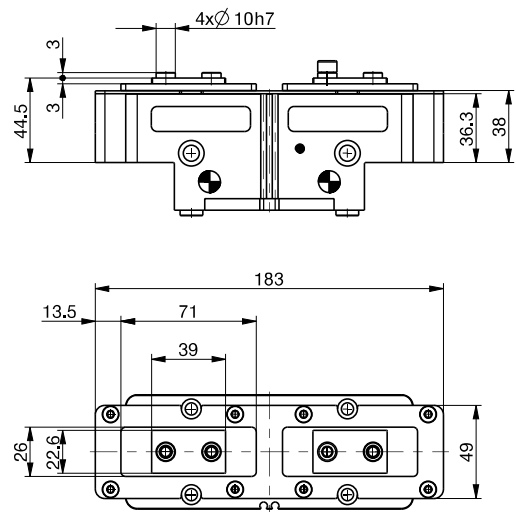
NC / NO / SC / SO



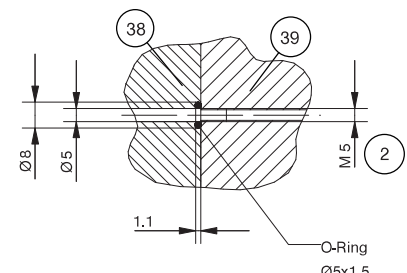
N / S



Protector version

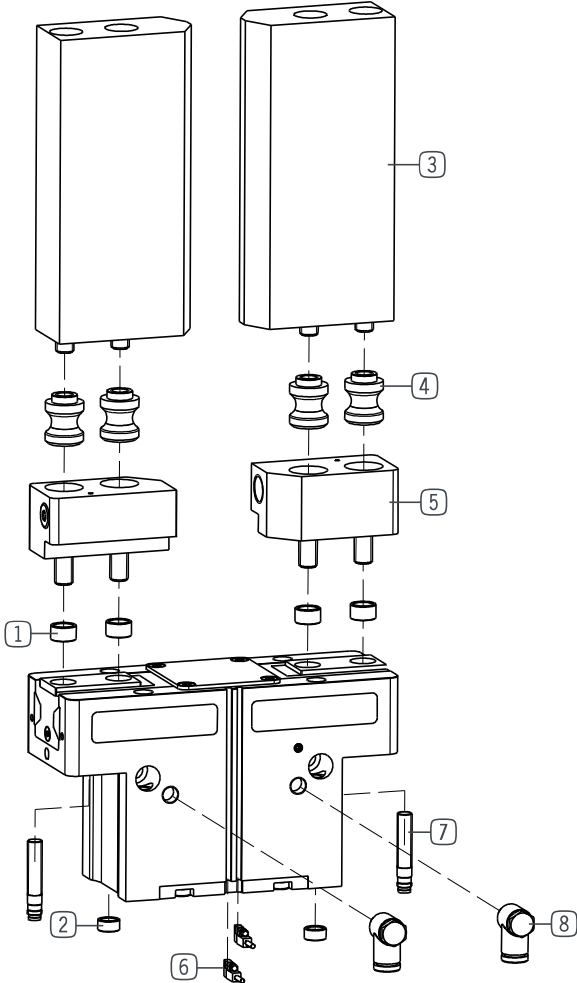


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉕ Gripper
- ㉖ Clamp for sensor
- ㉗ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5013



► INCLUDED IN DELIVERY



Centering Disc

018187



Centering Disc

019280

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5013AL



Universal jaw steel

UB5013ST



Aluminum adjustment jaw

EB5013AL



Steel adjustment jaw

EB5013ST



Changeable jaw, loose-part-set

WB5013L



Changeable jaw, fix-part

WB5013F



Inductive proximity switch - Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Angled Fittings - Quick Connect Style

WV1-8X6



Quick Exhaust Valve

DEV06

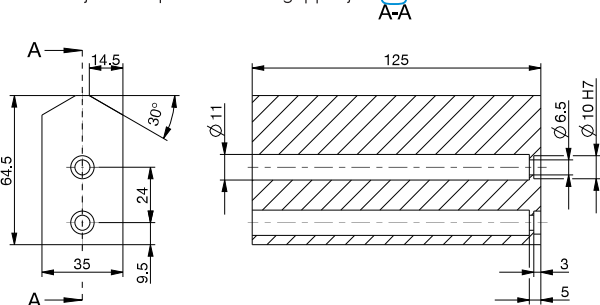


Pressure Safety Valve

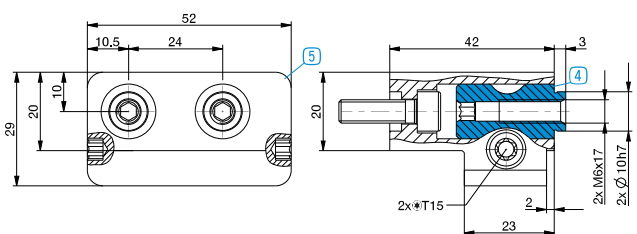
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



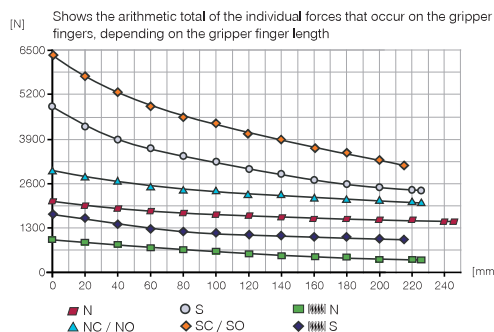
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5016

▶ PRODUCT SPECIFICATIONS

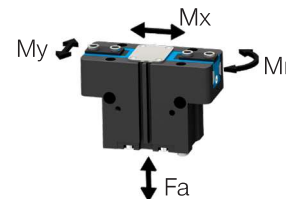


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	145
Mx [Nm]	195
My [Nm]	185
Fa [N]	5200

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5016N-00-A	GPP5016NC-00-A	GPP5016NO-00-A	GPP5016S-00-A	GPP5016SC-00-A	GPP5016SO-00-A
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	2090	2860		4610	6310	
Gripping force in opening [N]	2220		2990	4900		6600
Gripping force secured by spring min. [N]		770	770		1700	1700
Closing time [s]	0.13	0.11	0.24	0.13	0.11	0.24
Opening time [s]	0.13	0.24	0.11	0.13	0.24	0.11
Permissible weight per jaw max [kg]	3,8	3,8	3,8	3,8	3,8	3,8
Length of the gripper fingers max. [mm]	245	225	225	225	215	215
Repetition accuracy +/- [mm]	0,01	0,01	0,01	0,01	0,01	0,01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	166	332	332	166	332	332
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	2,9	3,7	3,7	2,9	3,7	3,7

▶ Technical Data - Protector Version

Order no.	GPP5016N-21-A	GPP5016NC-21-A	GPP5016NO-21-A	GPP5016S-21-A	GPP5016SC-21-A	GPP5016SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3,6	4,4	4,4	3,6	4,4	4,4

▶ Technical Data - High Temperature Version

Order no.	GPP5016N-20-A	GPP5016NC-20-A	GPP5016NO-20-A	GPP5016S-20-A	GPP5016SC-20-A	GPP5016SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

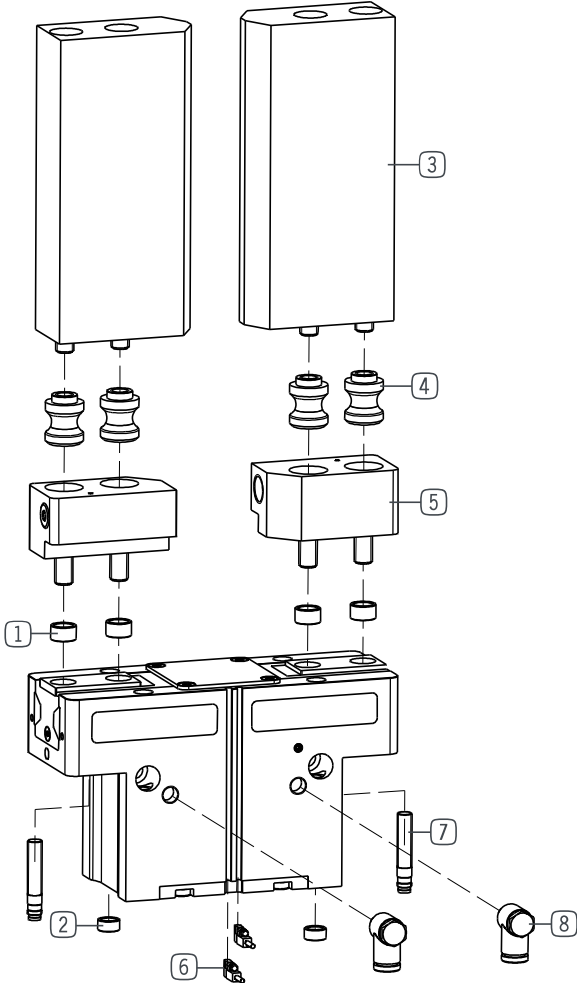
Order no.	GPP5016N-24-A	GPP5016NC-24-A	GPP5016NO-24-A	GPP5016S-24-A	GPP5016SC-24-A	GPP5016SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3,6	4,4	4,4	3,6	4,4	4,4

* All data measured at 6 bar

** with purged air (max. 0,5 bar)

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5016



▶ INCLUDED IN DELIVERY



Centering Disc

019387



Centering Disc

019280

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5016AL



Universal jaw steel

UB5016ST



Aluminum adjustment jaw

EB5016AL



Steel adjustment jaw

EB5016ST



Changeable jaw, loose-part-set

WB5016L



Changeable jaw, fix-part

WB5016F



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Angled Fittings - Quick
Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

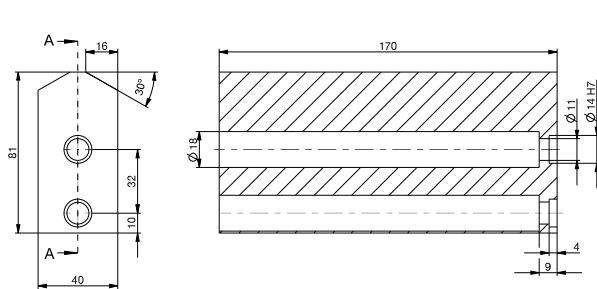


Pressure Safety Valve

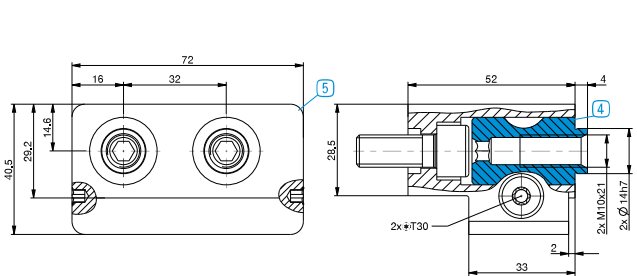
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



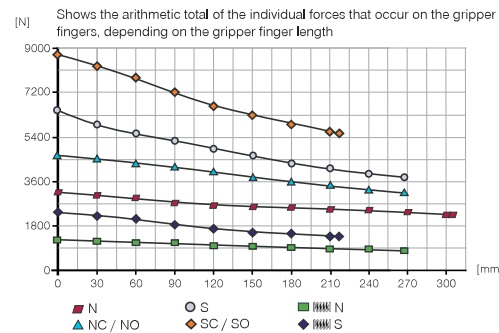
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5025

▶ PRODUCT SPECIFICATIONS

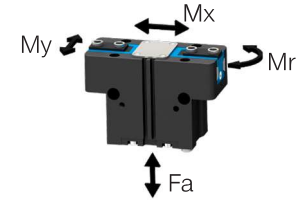


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	205
My [Nm]	225
Fa [N]	7500

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5025N-00-A	GPP5025NC-00-A	GPP5025NO-00-A	GPP5025S-00-A	GPP5025SC-00-A	GPP5025SO-00-A
Stroke per jaw [mm]	25	25	25	14	14	14
Gripping force in closing [N]	3280	4510		6360	8730	
Gripping force in opening [N]	3490		4710	6760		9130
Gripping force secured by spring min. [N]		1220	1220		2370	2370
Closing time [s]	0,33	0,28	0,57	0,33	0,28	0,57
Opening time [s]	0,33	0,57	0,28	0,33	0,57	0,28
Permissible weight per jaw max [kg]	7	7	7	7	7	7
Length of the gripper fingers max. [mm]	310	265	265	265	220	220
Repetition accuracy +/- [mm]	0,02	0,02	0,02	0,02	0,02	0,02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	420	830	830	420	830	830
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	6,1	7,65	7,65	6,1	7,65	7,65

▶ Technical Data - Protector Version

Order no.	GPP5025N-21-A	GPP5025NC-21-A	GPP5025NO-21-A	GPP5025S-21-A	GPP5025SC-21-A	GPP5025SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7,20	8,75	8,75	7,2	8,75	8,75

▶ Technical Data - High Temperature Version

Order no.	GPP5025N-20-A	GPP5025NC-20-A	GPP5025NO-20-A	GPP5025S-20-A	GPP5025SC-20-A	GPP5025SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

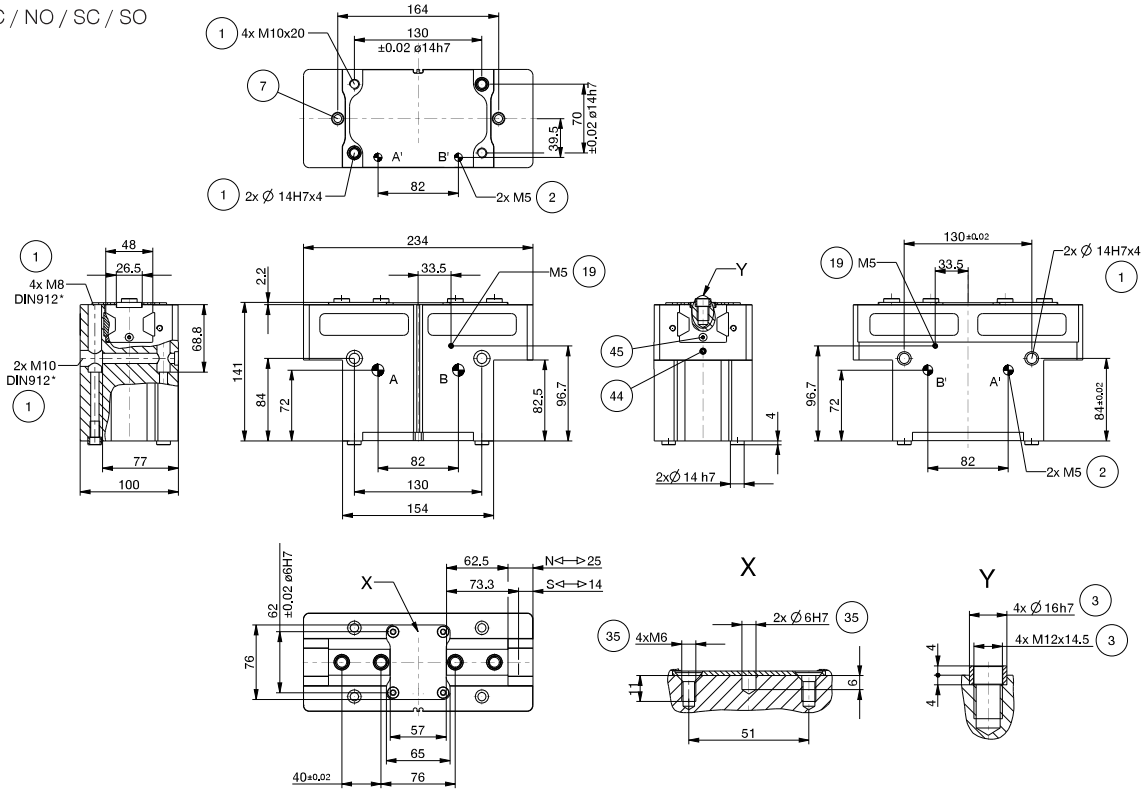
Order no.	GPP5025N-24-A	GPP5025NC-24-A	GPP5025NO-24-A	GPP5025S-24-A	GPP5025SC-24-A	GPP5025SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7,20	8,75	8,75	7,2	8,75	8,75

*All data measured at 6 bar

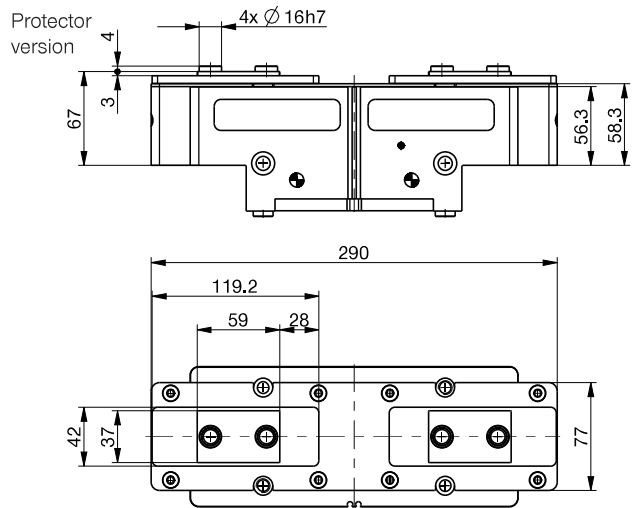
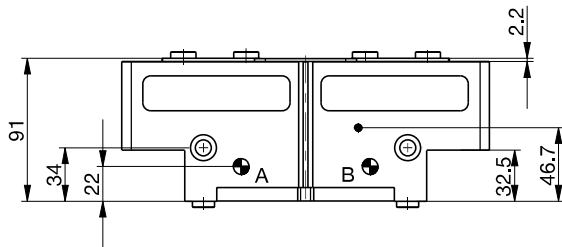
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

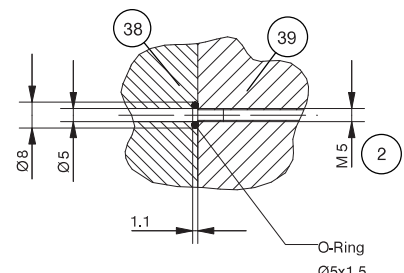
NC / NO / SC / SO



N / S

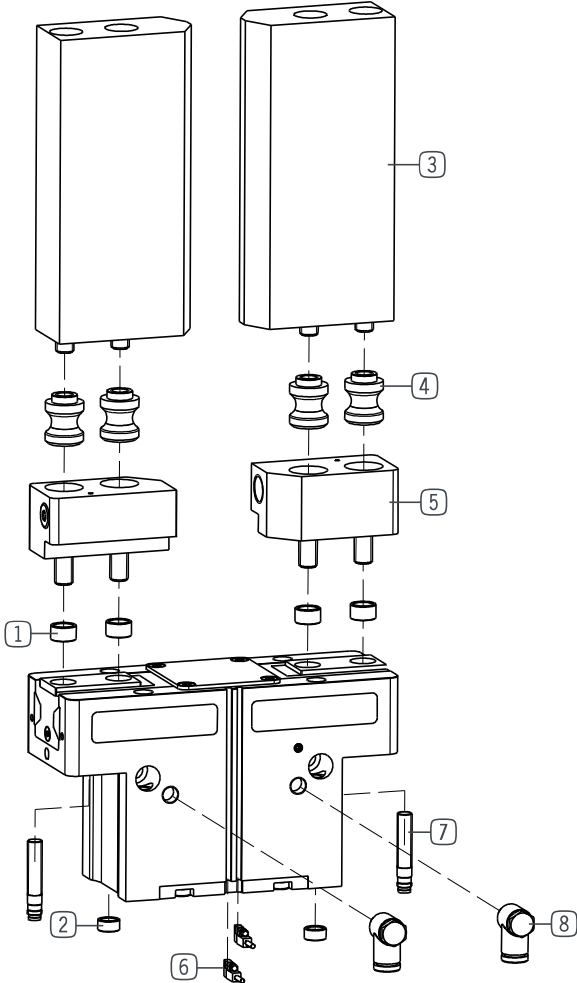


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉔ Gripper
- ㉔ Clamp for sensor
- ㉔ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5025



▶ INCLUDED IN DELIVERY



Centering Disc

030529



Centering Disc

019387

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5025AL



Universal jaw steel

UB5025ST



Aluminum adjustment jaw

EB5025AL



Steel adjustment jaw

EB5025ST



Changeable jaw, loose-part-set

WB5025L



Changeable jaw, fix-part

WB5025F



Inductive proximity switch
- Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Angled Fittings - Quick
Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

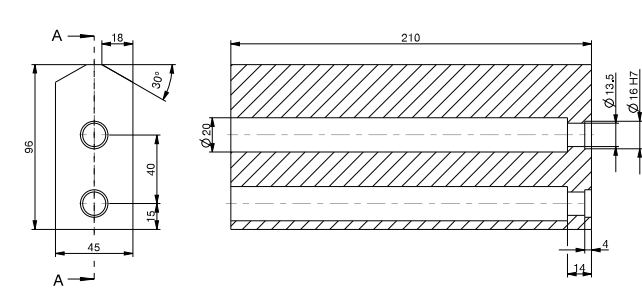


Pressure Safety Valve

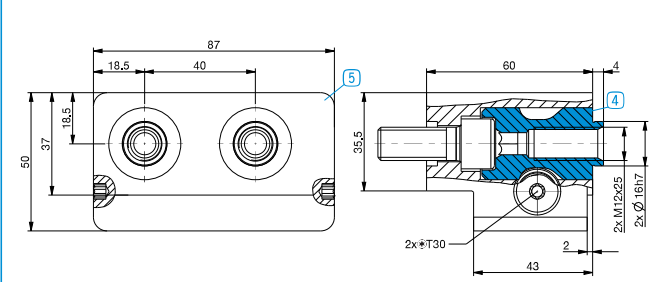
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **(3)**



For each gripper jaw, one interchangeable jaw loose part set **(4)** and one interchangeable jaw fixed part **(5)** are needed



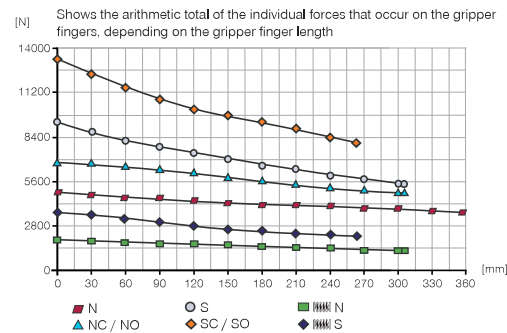
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5030

▶ PRODUCT SPECIFICATIONS

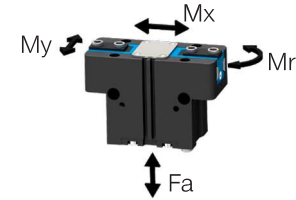


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	210
Mx [Nm]	290
My [Nm]	310
Fa [N]	9500

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5030N-00-A	GPP5030NC-00-A	GPP5030NO-00-A	GPP5030S-00-A	GPP5030SC-00-A	GPP5030SO-00-A
Stroke per jaw [mm]	30	30	30	17	17	17
Gripping force in closing [N]	5000	6850		9600	13160	
Gripping force in opening [N]	5210		7060	9990		13550
Gripping force secured by spring min. [N]		1850	1850		3560	3560
Closing time [s]	0.4	0.35	0.65	0.4	0.35	0.65
Opening time [s]	0.4	0.65	0.35	0.4	0.65	0.35
Permissible weight per jaw max [kg]	9,5	9,5	9,5	9,5	9,5	9,5
Length of the gripper fingers max. [mm]	355	305	305	305	260	260
Repetition accuracy +/- [mm]	0,04	0,04	0,04	0,04	0,04	0,04
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	745	1430	1430	745	1430	1430
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	9,2	12	12	9,2	12	12

▶ Technical Data - Protector Version

Order no.	GPP5030N-21-A	GPP5030NC-21-A	GPP5030NO-21-A	GPP5030S-21-A	GPP5030SC-21-A	GPP5030SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	10,9	13,7	13,7	10,9	13,7	13,7

▶ Technical Data - High Temperature Version

Order no.	GPP5030N-20-A	GPP5030NC-20-A	GPP5030NO-20-A	GPP5030S-20-A	GPP5030SC-20-A	GPP5030SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

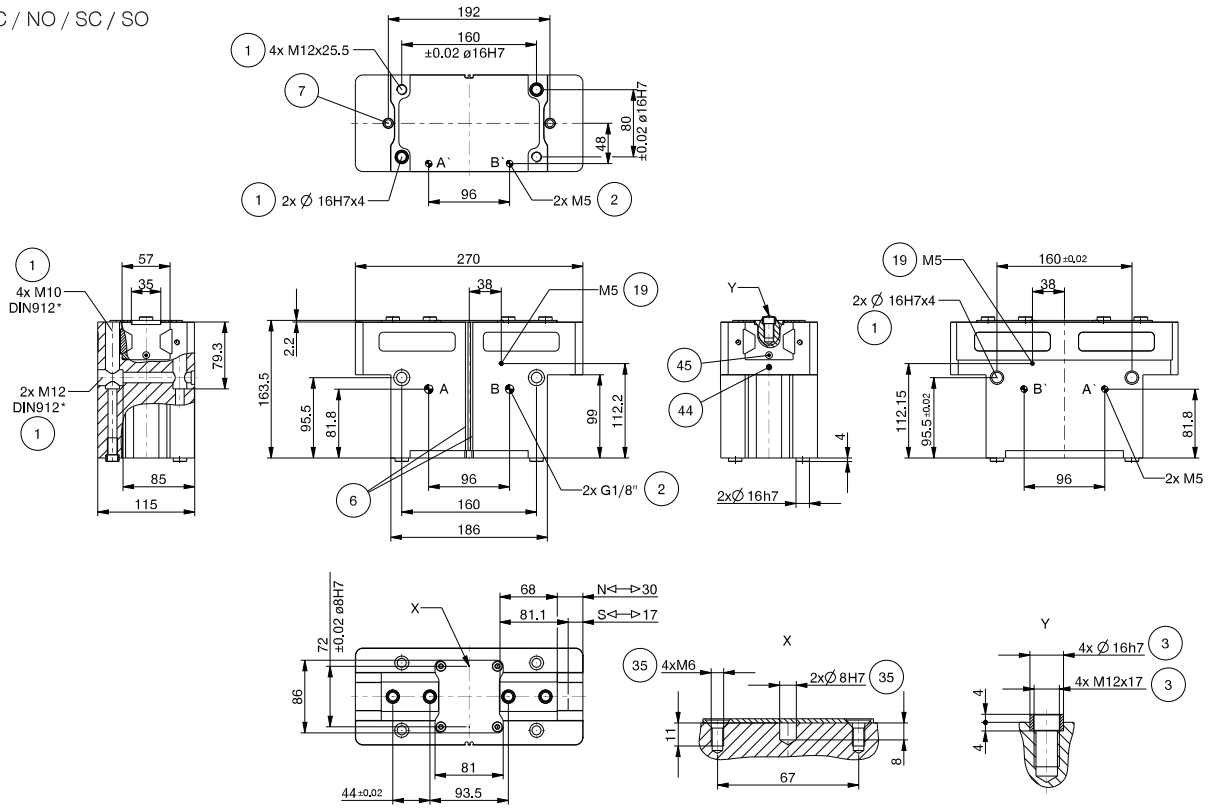
Order no.	GPP5030N-24-A	GPP5030NC-24-A	GPP5030NO-24-A	GPP5030S-24-A	GPP5030SC-24-A	GPP5030SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	10,9	13,7	13,7	10,9	13,7	13,7

*All data measured at 6 bar

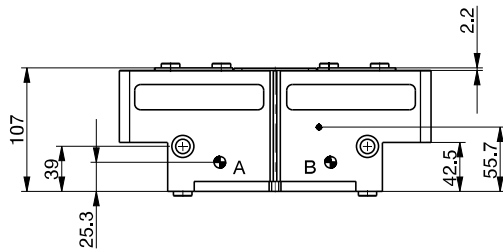
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

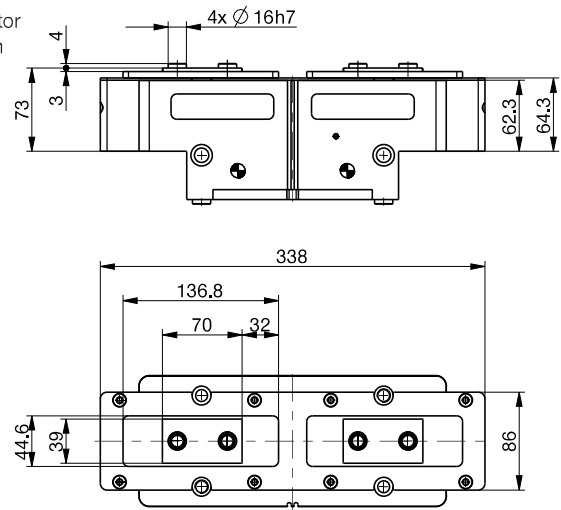
NC / NO / SC / SO



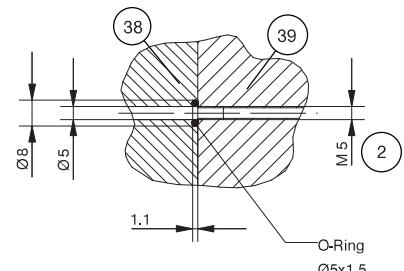
N / S



Protector version

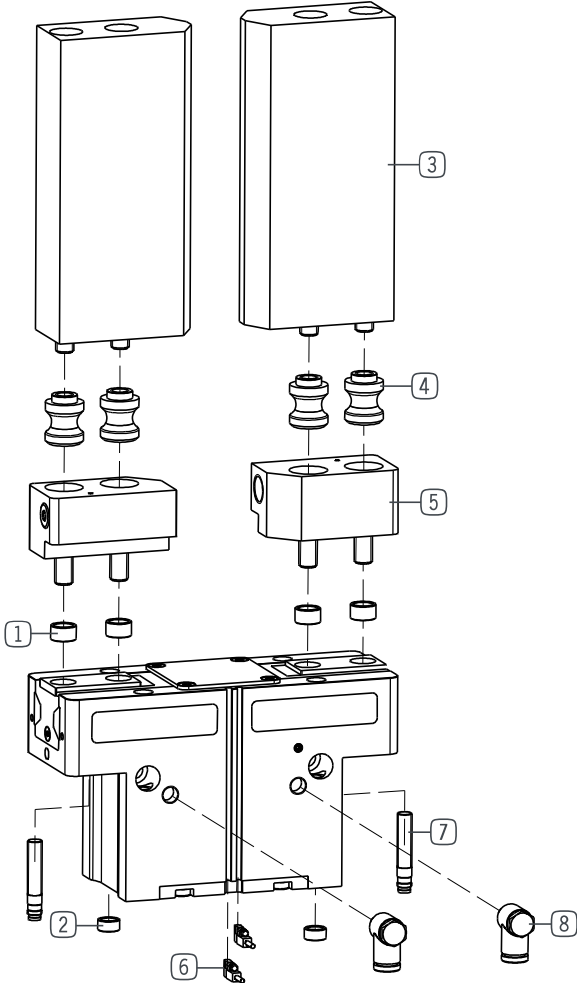


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ④ Integrated slot for magnetic field sensor
- ⑤ Mounting block
- ⑥ Air connection (close)
- ⑦ Air connection (open)
- ⑧ Air connection, alternative (close)
- ⑨ Air connection, alternative (open)
- ⑩ Gripper
- ⑪ Clamp for sensor
- ⑫ Switch cam adjustment
- ⑬ Air purge connection option
- ⑭ Attachment option for customer-specific fittings
- ⑮ Adapter



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5030



► INCLUDED IN DELIVERY



Centering Disc

030529

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5030AL



Universal jaw steel

UB5030ST



Aluminum adjustment jaw

EB5030AL



Steel adjustment jaw

EB5030ST



Changeable jaw, loose-part-set

WB5030L



Changeable jaw, fix-part

WB5030F



Inductive proximity switch - Connector M8

NJ8-E2S



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

MFS103SKHC



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

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



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

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Angled Fittings - Quick Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08



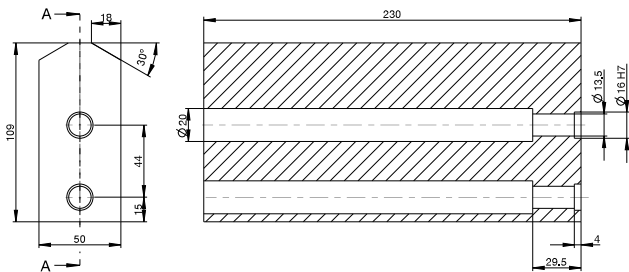
Pressure Safety Valve

DSV1-8

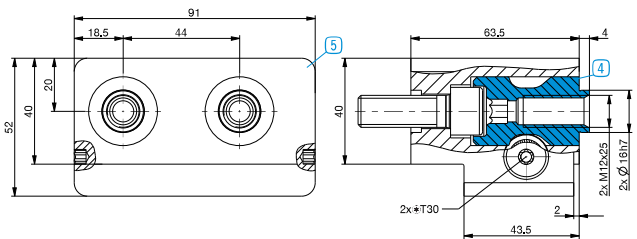
▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**

A-A



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



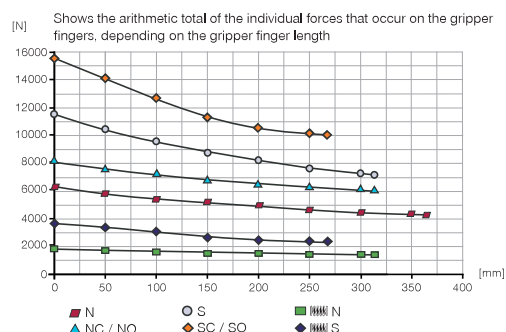
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5035

PRODUCT SPECIFICATIONS

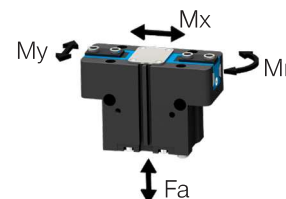


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	260
Mx [Nm]	430
My [Nm]	450
Fa [N]	10400

TECHNICAL DATA

Technical Data*

Order no.	GPP5035N-00-A	GPP5035NC-00-A	GPP5035NO-00-A	GPP5035S-00-A	GPP5035SC-00-A	GPP5035SO-00-A
Stroke per jaw [mm]	35	35	35	20	20	20
Gripping force in closing [N]	6100	8000		11700	15500	
Gripping force in opening [N]	6300		8200	12100		15900
Gripping force secured by spring min. [N]		1900	1900		3700	3700
Closing time [s]	0.5	0.4	0.7	0.5	0.4	0.7
Opening time [s]	0.5	0.7	0.4	0.5	0.7	0.4
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	365	315	315	315	260	260
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1185	2075	2075	1185	2075	2075
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	15.8	18.6	18.6	16.1	18.9	18.9

Technical Data - High Temperature Version

Order no.	GPP5035N-20-A	GPP5035NC-20-A	GPP5035NO-20-A	GPP5035S-20-A	GPP5035SC-20-A	GPP5035SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPP5035N-21-A	GPP5035NC-21-A	GPP5035NO-21-A	GPP5035S-21-A	GPP5035SC-21-A	GPP5035SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	20.2	23	23	20.5	23.3	23.3

Technical Data - High Temperature Protector Version

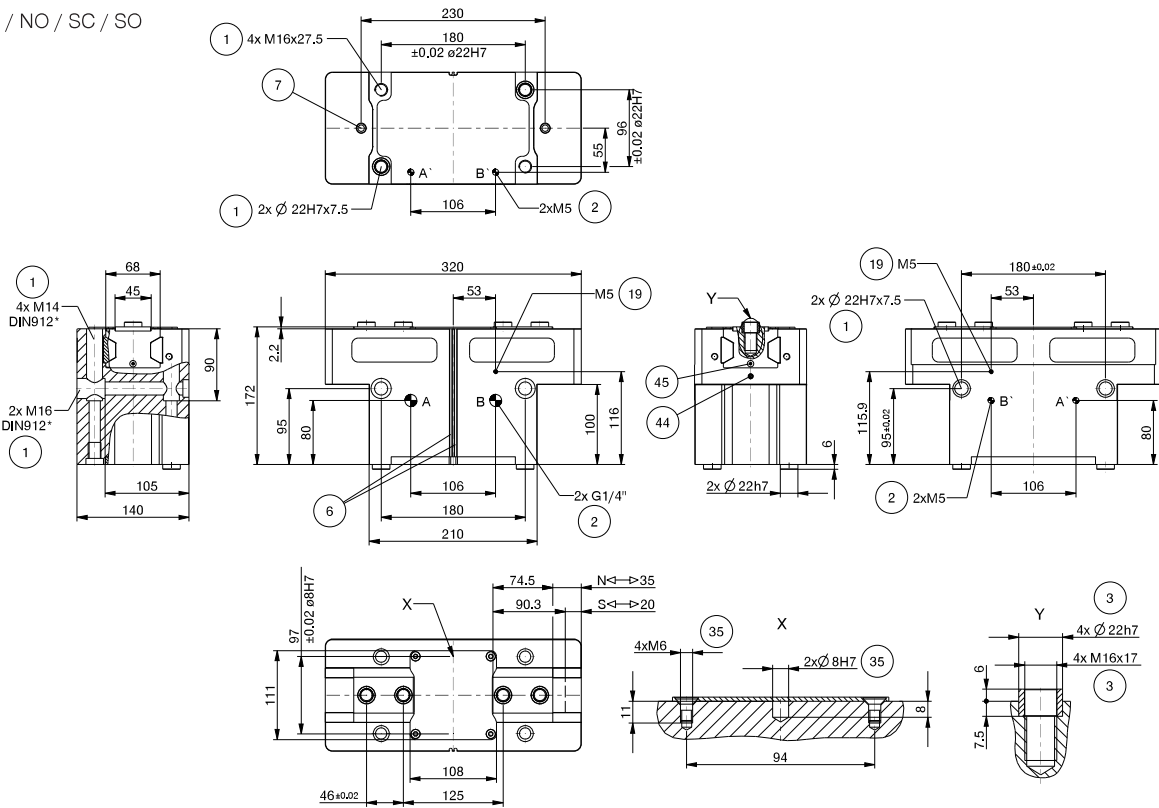
Order no.	GPP5035N-24-A	GPP5035NC-24-A	GPP5035NO-24-A	GPP5035S-24-A	GPP5035SC-24-A	GPP5035SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	20.2	23	23	20.5	23.3	23.3

*All data measured at 6 bar

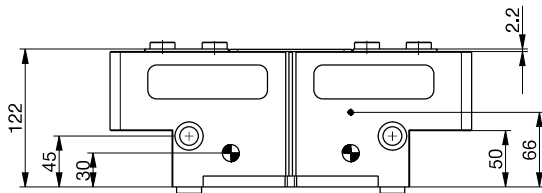
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS ACCESSORIES

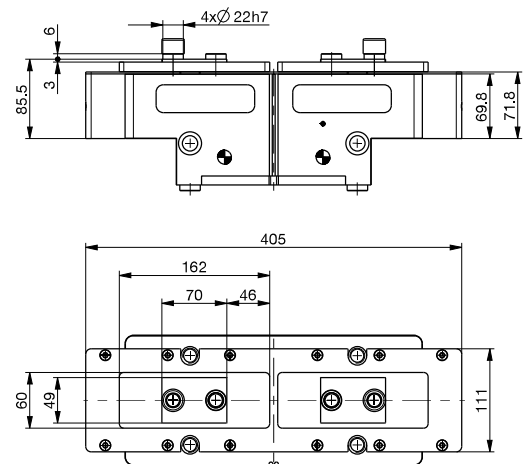
NC / NO / SC / SO



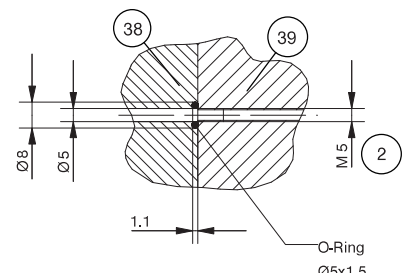
N / S



Protector version

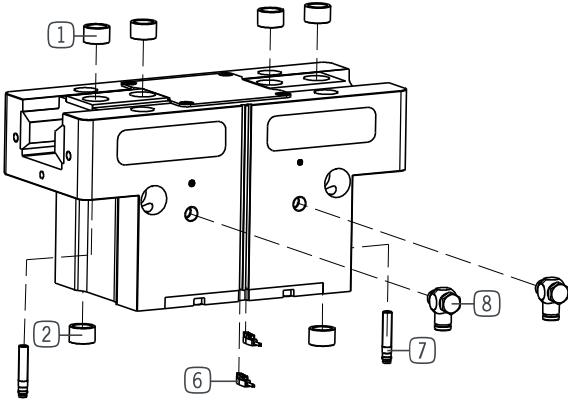


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉑ Adapter
- ㉒ Gripper
- ㉓ Clamp for sensor
- ㉔ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)
- ㉕ Gripper
- ㉖ Clamp for sensor
- ㉗ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5035



► INCLUDED IN DELIVERY



Centering Disc

035358

▶ RECOMMENDED ACCESSORIES



7
Inductive proximity switch -
Connector M8
NJ8-E2S



6
Magnetic field sensor Angled
Cable 0,3 m - Connector M8
MFS103SKHC



6
Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS204SKHC



6
2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



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



Plug-in connector customiz-
able Straight - Connector M8
S8-G-3



Straight Fittings - Quick
Connect Style
GV1-4X8



Angled Fittings - Quick
Connect Style
WV1-4X8



Quick Exhaust Valve
DEV04



Pressure Safety Valve
DSV1-8

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5045

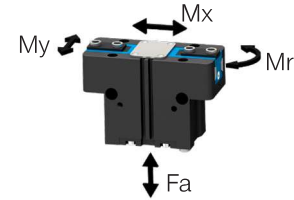
COMING
SOON

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	390
Mx [Nm]	580
My [Nm]	600
Fa [N]	11500

▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPP5045N-00-A	GPP5045NC-00-A	GPP5045NO-00-A	GPP5045S-00-A	GPP5045SC-00-A	GPP5045SO-00-A
Stroke per jaw [mm]	45	45	45	26	26	26
Gripping force in closing [N]	10200	13700		19400	26050	
Gripping force in opening [N]	10700		14200	20300		26950
Gripping force secured by spring min. [N]		3500	3500		6650	6650
Closing time [s]	0,55	0,45	0,7	0,55	0,45	0,7
Opening time [s]	0,55	0,7	0,45	0,55	0,7	0,45
Permissible weight per jaw max [kg]	17	17	17	17	17	17
Length of the gripper fingers max. [mm]	400	350	350	350	300	300
Repetition accuracy +/- [mm]	0,05	0,05	0,05	0,05	0,05	0,05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6,5	6,5	8	6,5	6,5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2420	4400	4400	2420	4400	4400
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	33	40,5	40,5	34	41,5	41,5

Order no.	▶ Technical Data - High Temperature Version					
	GPP5045N-20-A	GPP5045NC-20-A	GPP5045NO-20-A	GPP5045S-20-A	GPP5045SC-20-A	GPP5045SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPP5045N-21-A	GPP5045NC-21-A	GPP5045NO-21-A	GPP5045S-21-A	GPP5045SC-21-A	GPP5045SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	41,5	49	49	42,5	50	50

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPP5045N-24-A	GPP5045NC-24-A	GPP5045NO-24-A	GPP5045S-24-A	GPP5045SC-24-A	GPP5045SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	41,5	49	49	42,5	50	50

*All data measured at 6 bar

** with purged air (max. 0,5 bar)

2-JAW PARALLEL GRIPPERS

OVERVIEW OF SERIES



▶ ELECTRICAL



Series GEP9000

132



Series GEP1400

138



Series GEP5000

144

2-JAW PARALLEL GRIPPERS

SERIES GEP9000

▶ PRODUCT ADVANTAGES



“The quickest”

▶ Plug and play

Reduce programming and assembly costs to a minimum with the integrated control system and the 3 position query

▶ 250 cycles per minute

No more worrying about cycle times: There is nothing faster on the market!

▶ Failure-free continuous operation

Our “Made in Germany” quality guarantees up to 30 million maintenance-free gripping cycles

▶ 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

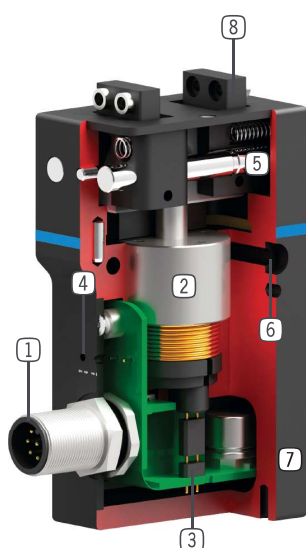
HOW TO ORDER CORRECTLY

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

Order no.	GEP9002N	<input type="checkbox"/>	-B	
Grip direction closed		C		
Grip direction opened		O		



► 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 opening and closing (<25ms)
- 3 Position sensing**
 - integrated Hallsensor
 - 3 positions monitorable
- 4 Status control**
 - optical LED position display
 - gripper opened, gripper closed, "workpiece available"
- 5 Wedge hook mechanism**
 - self locking mechanism at stop position
- 6 Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 7 Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 8 Gripper jaw**
 - from high-strength, hard-anodized aluminium
 - removable centering sleeves for individual gripper finger mounting

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	2 mm - 4 mm
Gripping force	11 N - 50 N
Weight	0,25 kg - 0,57 kg
AP class	2



30 million maintenance-free cycles (max.)



Spring closing C



Spring opening O



Integrated sensing



IP40



Purged air

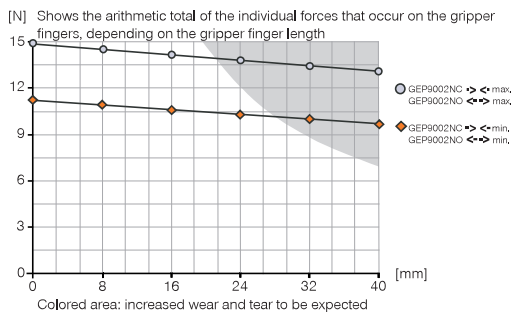
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP9002

▶ PRODUCT SPECIFICATIONS

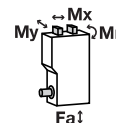


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1.5
Mx [Nm]	1.5
My [Nm]	2.1
Fa [N]	270

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



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



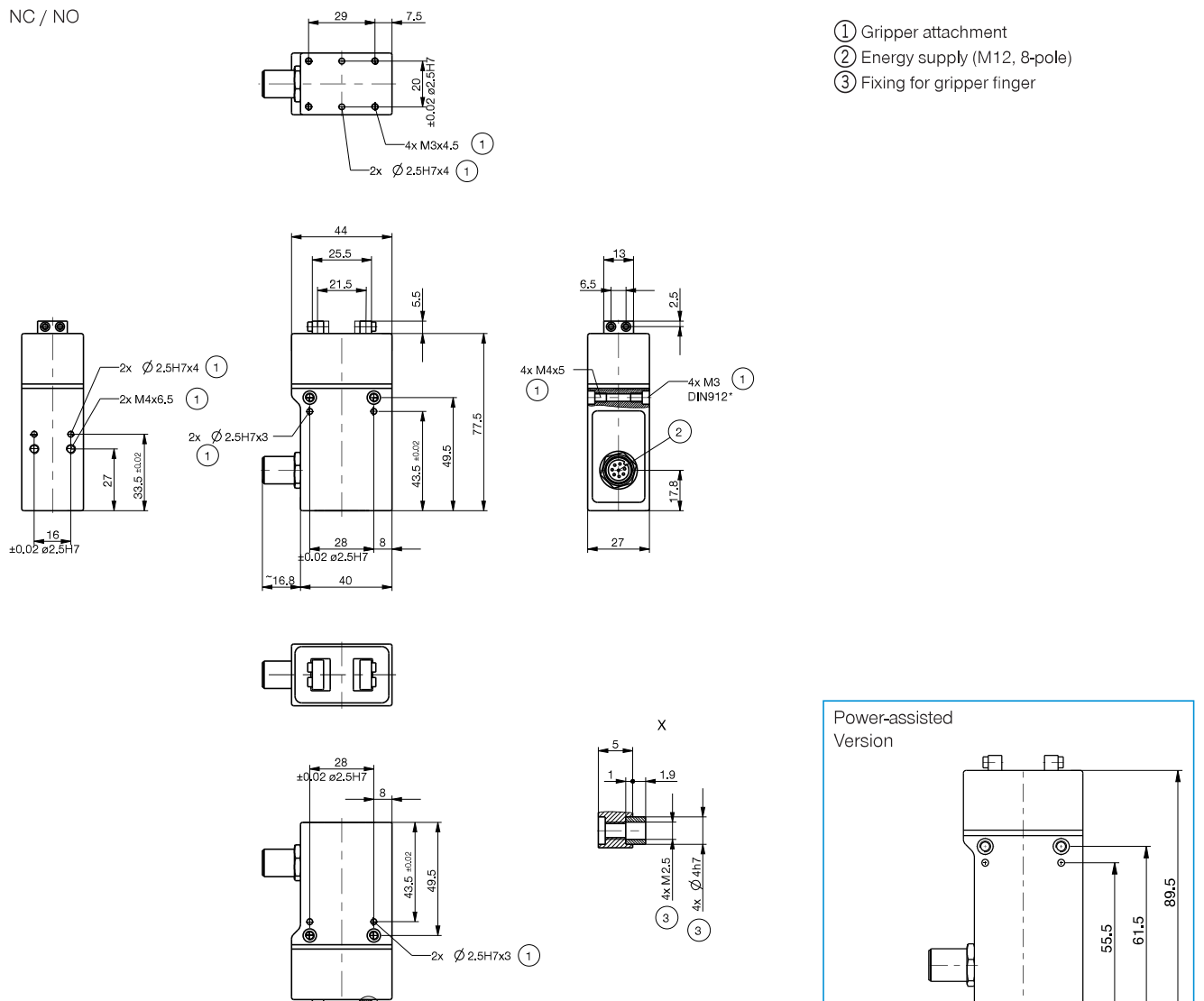
Plug-in Connector Angled
Cable 10 m - Female M12
KAW1000B8



Busbox
see page 875
ZUBBOX9000-01

Order no.	Technical Data		
	GEP9002NC-B	GEP9002NO-B	GEP9002NCV-B
Stroke per jaw [mm]	2	2	2
Grip force in grip direction min. [N]	11	11	20
Grip force in grip direction max. [N]	15	15	30
Permanent operation cycle count max. [cycle/min]	200	200	200
Cycle count max. [cycle/min]	250	250	250
Operating time [ms]	<20	<20	<20
Pulse time in opening [ms]	25	7	25
Pulse time in closing [ms]	7	25	7
Repetition accuracy +/- [mm]	0,05	0,05	0,05
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+50	+50	+50
Current consumption per pulse max. [A]	5	5	5
Length of the gripper fingers max. [mm]	40	40	40
Weight per jaw max. [g]	20	20	20
Protection to IEC 60529	IP40	IP40	IP40
Weight [kg]	0.25	0.25	0.34

NC / NO



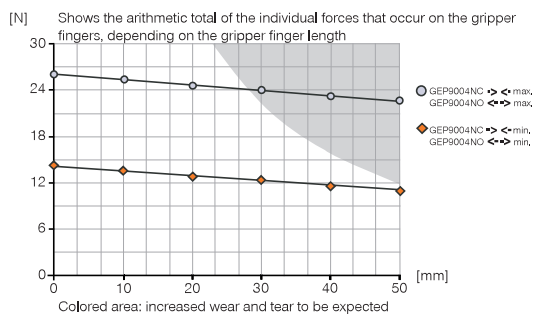
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP9004

▶ PRODUCT SPECIFICATIONS

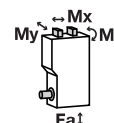


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2.7
Mx [Nm]	2.7
My [Nm]	4.3
Fa [N]	335

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



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

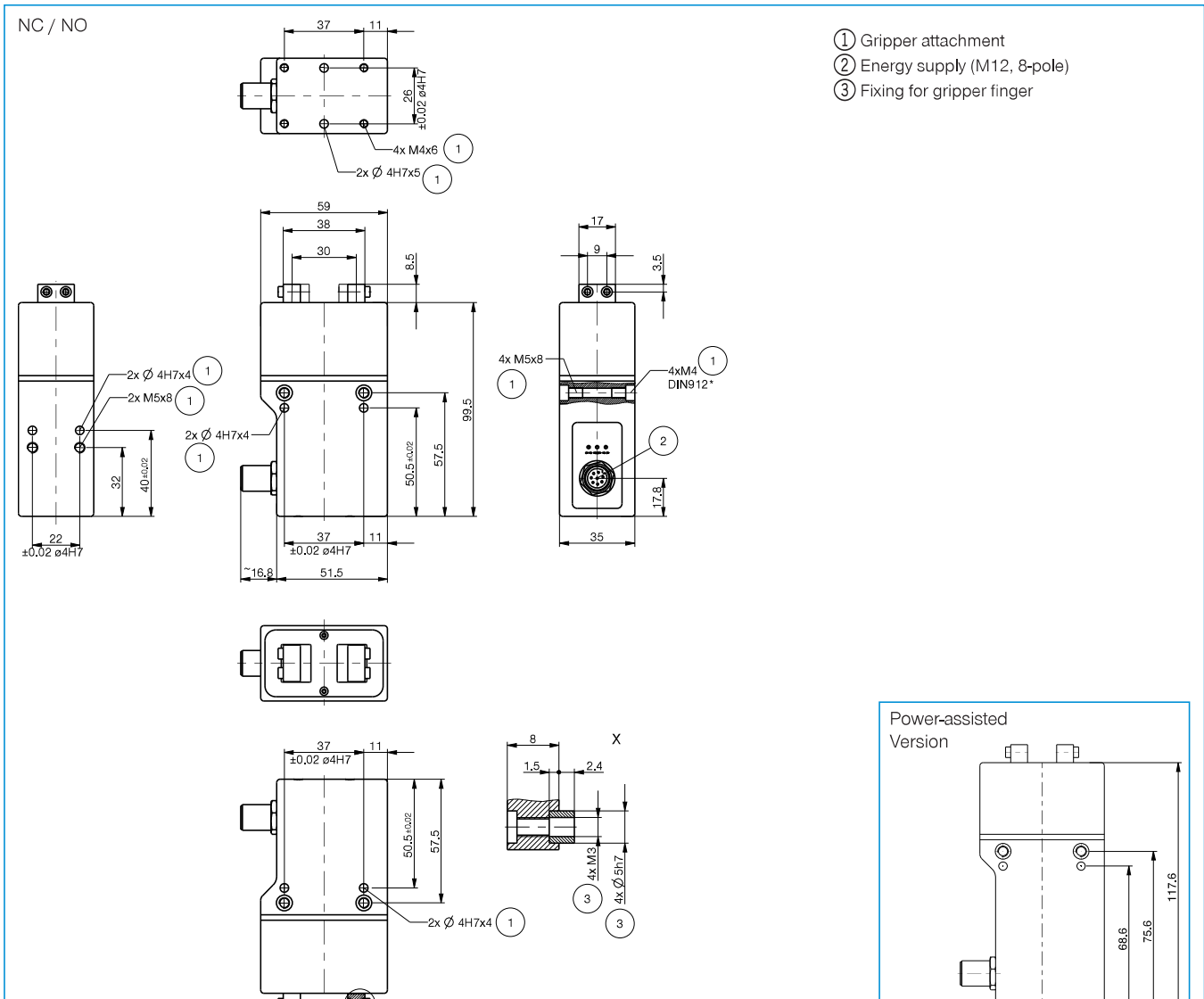


Plug-in Connector Angled
Cable 10 m - Female M12
KAW1000B8



Busbox
see page 875
ZUBBOX9000-01

Order no.	Technical Data		
	GEP9004NC-B	GEP9004NO-B	GEP9004NCV-B
Stroke per jaw [mm]	4	4	4
Grip force in grip direction min. [N]	14	14	30
Grip force in grip direction max. [N]	26	26	50
Permanent operation cycle count max. [cycle/min]	200	200	200
Cycle count max. [cycle/min]	250	250	250
Operating time [ms]	<20	<20	<20
Pulse time in opening [ms]	35	9	35
Pulse time in closing [ms]	9	35	9
Repetition accuracy +/- [mm]	0,05	0,1	0,05
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+50	+50	+50
Current consumption per pulse max. [A]	5	5	5
Length of the gripper fingers max. [mm]	50	50	50
Weight per jaw max. [g]	30	30	30
Protection to IEC 60529	IP40	IP40	IP40
Weight [kg]	0.57	0.57	0.79



2-JAW PARALLEL GRIPPERS

SERIES GEP1400

▶ PRODUCT ADVANTAGES



“The robust”

▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ Integrated position sensing

You can detect the gripper status safely via the motor current using your control system

▶ The simplest activation

The included control unit is controlled easily via plus and minus buttons, while you can optionally adjust the gripping force using the potentiometer

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

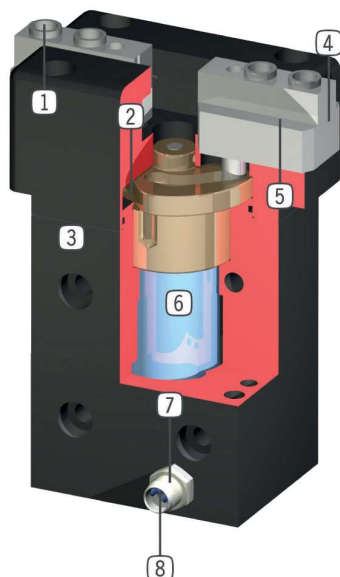
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- 1 Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- 2 Positively driven curve disc**
 - synchronized the movement of the gripper jaws
 - high force transfer
 - rapid stroke and force stroke (version with 6 mm stroke per jaw)
- 3 Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 4 Gripper jaw**
 - hardened steel
 - individual gripper finger mounting
- 5 Guide**
 - precise T-Slot guide for high forces and moments capacity
- 6 Drive**
 - electric drive by 24 VDC step motor
- 7 Position sensing**
 - measured at the end of stroke via power increase on the motor
- 8 Energy supply**
 - standardized interface M8 round plug
 - signal control line (use only cable without diode)

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	2 mm - 6 mm
Gripping force	140 N - 350 N
Weight	0,3 kg - 1 kg
AP class	3



5 million maintenance-free cycles (max.)

IP 52

IP52

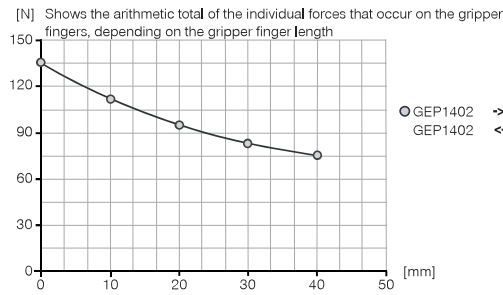
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP1402

▶ PRODUCT SPECIFICATIONS

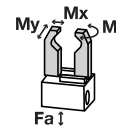


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	4
Fa [N]	70

▶ INCLUDED IN DELIVERY



Centering Disc

DST02900



Control

ELEGR01

▶ RECOMMENDED ACCESSORIES



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

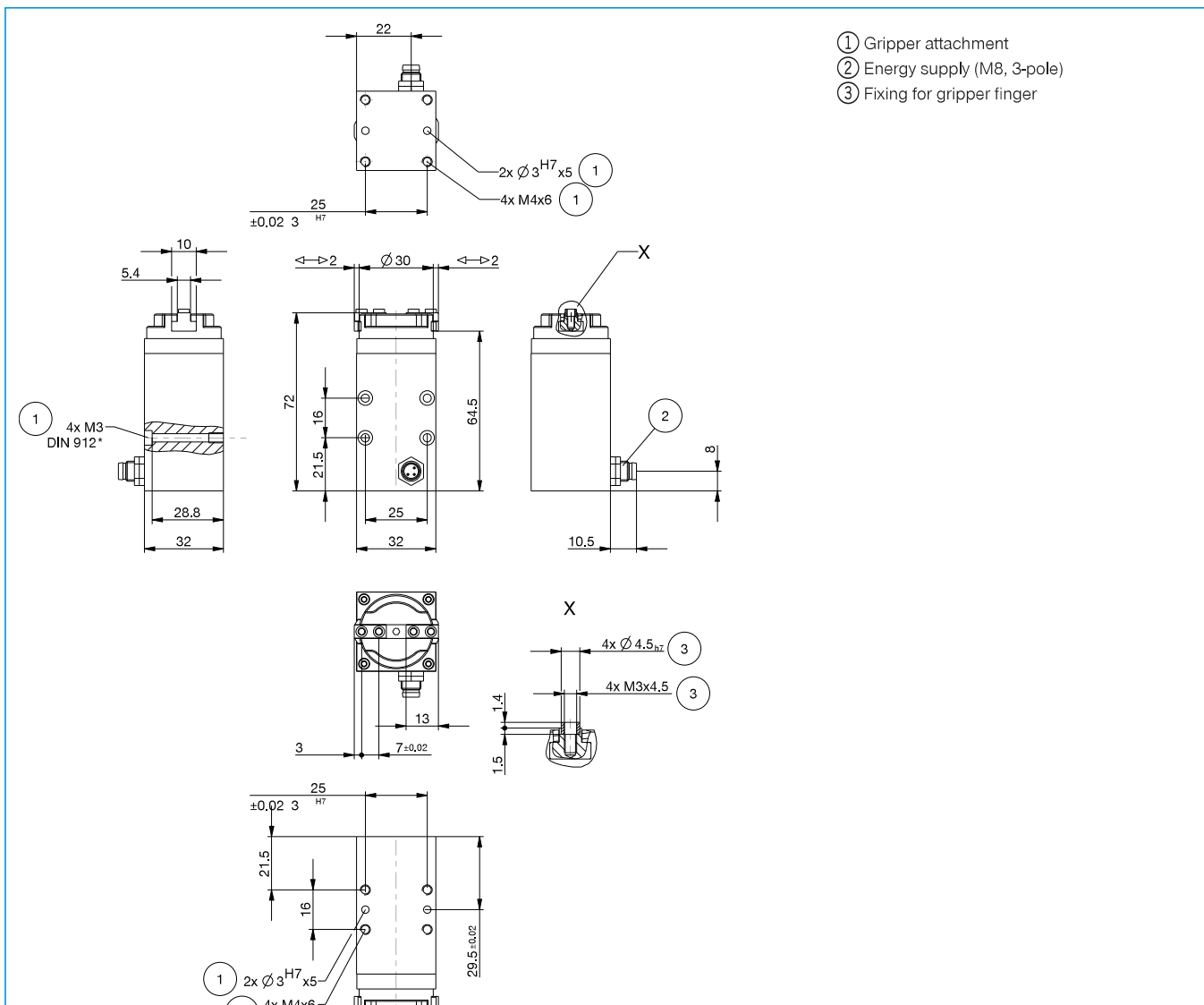
KAG500



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

KAW500

Order no.	Technical Data
Stroke per jaw [mm]	2
Gripping force in closing (adjustable) max. [N]	140
Gripping force in opening (adjustable) max. [N]	140
Opening time [s]	0.2
Closing time [s]	0.2
Repetition accuracy +/- [mm]	0.1
Voltage [V]	24
Max. current regulable by potentiometer [mA]	140
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Protection to IEC 60529	IP52
Weight [kg]	0.3



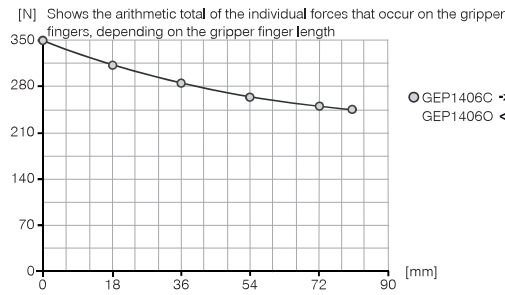
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP1406

▶ PRODUCT SPECIFICATIONS

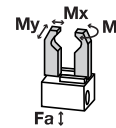


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	30
Mx [Nm]	30
My [Nm]	20
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800



Control

ELEGR04

▶ RECOMMENDED ACCESSORIES



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

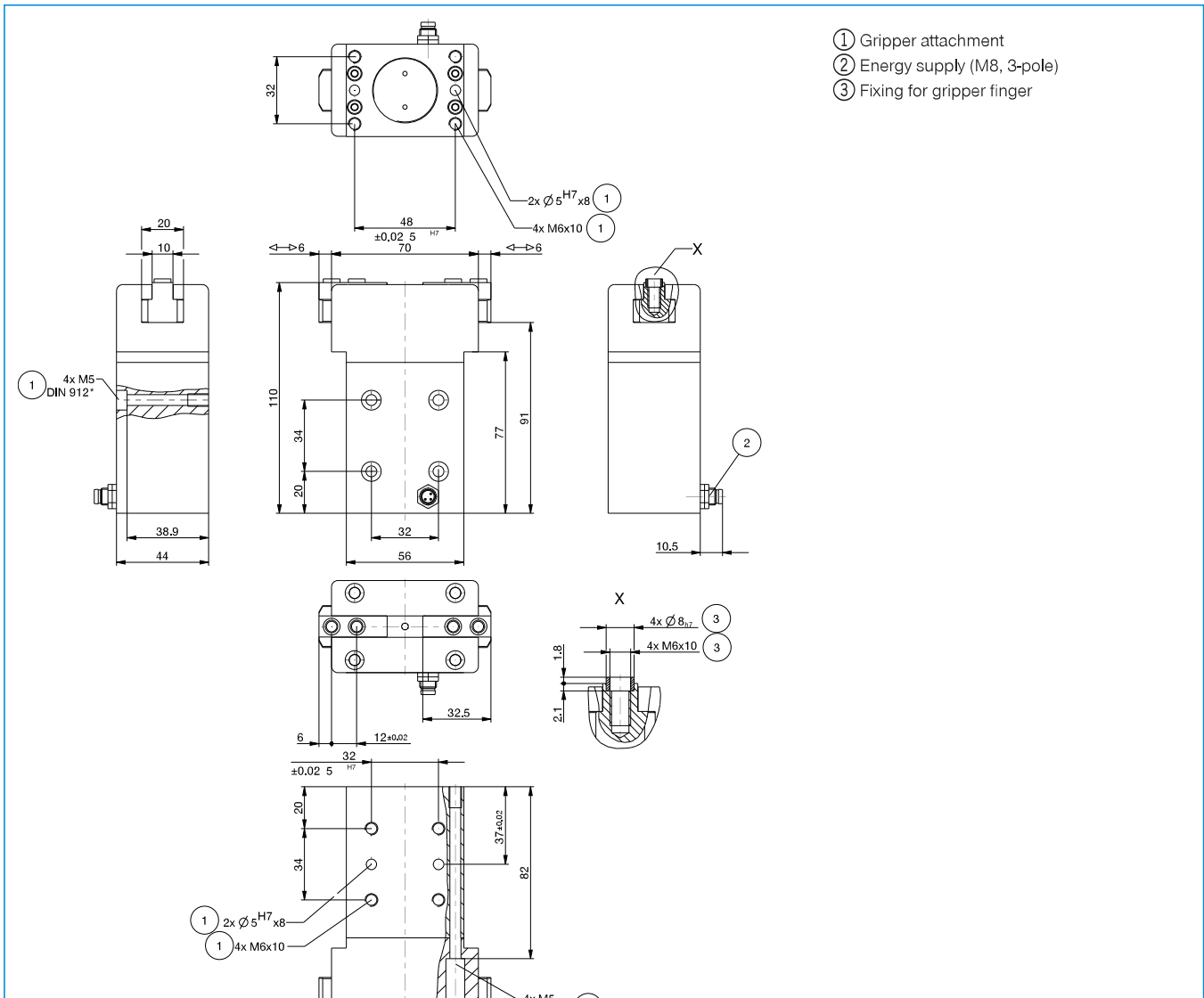
KAG500



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

KAW500

Order no.	Technical Data	
	GEP1406C	GEP1406O
Stroke per jaw [mm]	6	6
Gripping force in closing (adjustable) max. [N]	350	
Gripping force in opening (adjustable) max. [N]		350
Opening time [s]	0.4	0.4
Closing time [s]	0.4	0.4
Repetition accuracy +/- [mm]	0.1	0.1
Voltage [V]	24	24
Max. current regulable by potentiometer [mA]	210	210
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Protection to IEC 60529	IP52	IP52
Weight [kg]	1	1



2-JAW PARALLEL GRIPPERS

SERIES GEP5000

▶ PRODUCT ADVANTAGES



“ALL in ONE”

- ▶ Approximately the same gripping force as a comparable pneumatic gripper
- ▶ Self locking mechanism in case of power drop
- ▶ Same connection hole patterns as a comparable pneumatic gripper
- ▶ Plug and play – single-cable solution, supports incredibly easy control using I/O signals or IO-Link
- ▶ Integrated ACM control module - option of configuring gripping force, travel time and switching points
- ▶ Protected from corrosion and sealed in accordance with IP64
- ▶ Brushless DC motor – up to 30 million cycles without maintenance

▶ 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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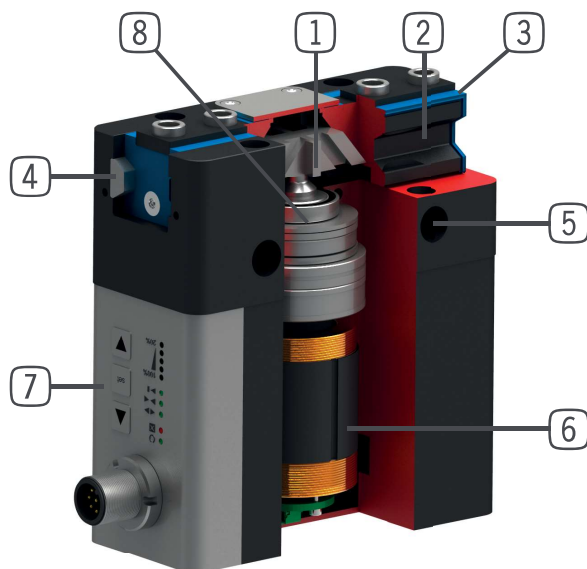
HOW TO ORDER CORRECTLY

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

Order no.	GEP5008	<input type="checkbox"/>	-00	-A
Digital control		IO		
IO-Link control		IL		



► BENEFITS IN DETAIL



- 1 Wedge hook mechanism**
 - Supports to absorb high forces and moments
 - Synchronized gripper jaw movement
- 2 Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
 - Lubricated for life via incorporated lubrication slots
- 3 Dual lip seal**
 - Enables IP64
 - Prevents grease from being squeezed out, increasing service life
- 4 Steel Linear Guide**
 - Steel in steel guide
 - Enables use of extremely long gripper fingers
- 5 Mounting and positioning**
 - Alternatively, on several sides for customized mounting
 - Pneumatic and electrical versions identical apart from height
- 6 BLDC motor**
 - Wear-resistant brushless DC motor
- 7 Advanced control module**
 - Integrated control module with single-cable solution
 - Gripping force, travel time and query programmable via the control panel on the housing
- 8 Drive train**
 - Combination of trapezoidal spindle and gear
 - Durable and robust

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	6 mm - 10 mm
Gripping force	540 N - 1900 N
Weight	0,79 kg - 1,66 kg
AP class	5



30 million maintenance-free cycles (max.)



Integrated sensing



IP64



Corrosion resistance



Self locking mechanism



Purged air

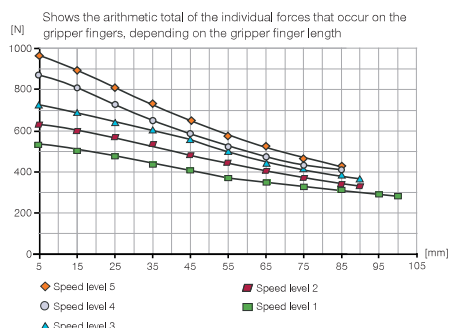
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5006

▶ PRODUCT SPECIFICATIONS

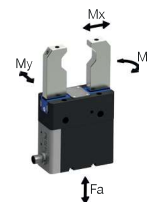


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

▶ TECHNICAL DATA - BASIC VERSION

▶ Technical Data

Order no.	GEP5006IO-00-A	GEP5006IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	6	6
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0,035	0,035
Permissible weight per jaw max [kg]	0,4	0,4
Length of the gripper fingers max. [mm]	100	100
Repetition accuracy +/- [mm]	0,01	0,01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	0,79	0,79

▶ TECHNICAL DATA - MODES

▶ Technical data - N mode

Order no.	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force ←→ min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time ←→ min. / max. [s]	0,15 / 0,22	0,15 / 0,22

▶ Technical data - NC mode

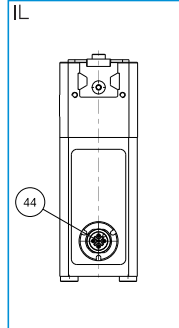
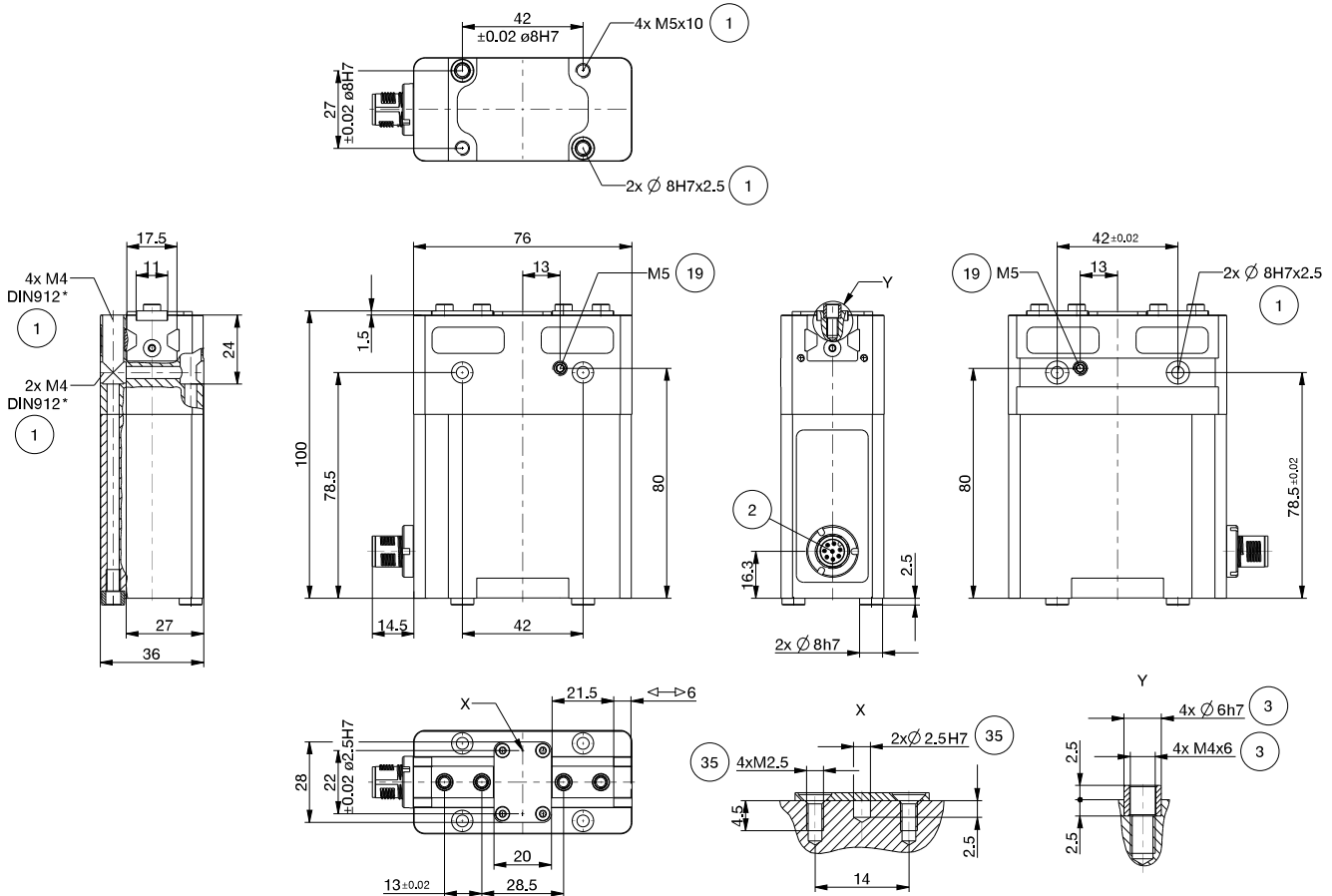
Order no.	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force ←→ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time ←→ min. / max. [s]	0,13	0,13

▶ Technical data - NO mode

Order no.	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ←→ min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,13	0,13
Travel time ←→ min. / max. [s]	0,15 / 0,22	0,15 / 0,22

▶ TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Energy supply IO-Link (M12, 5-pole)

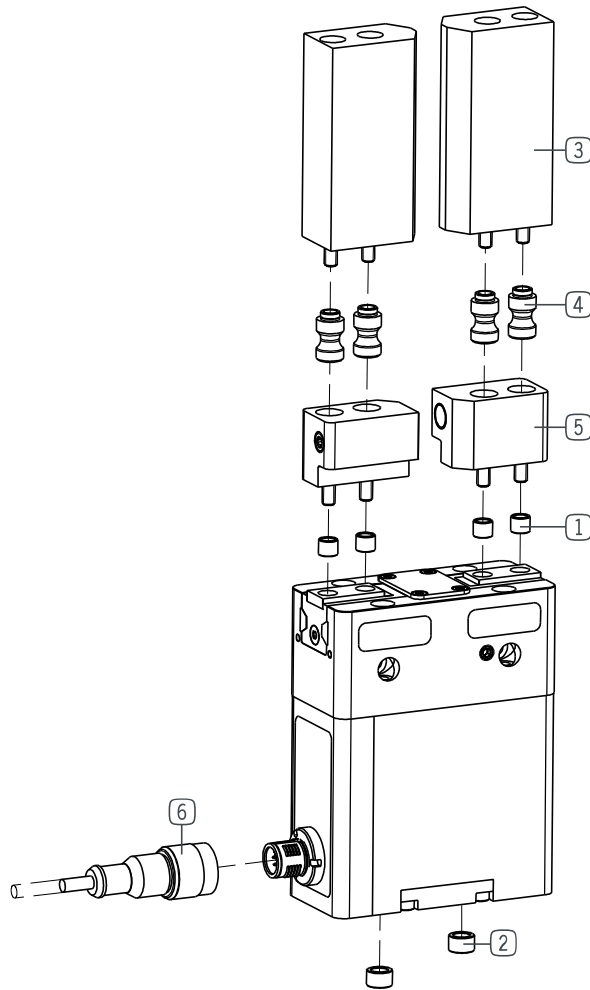


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5006

1

Installation size GEP5006 / 2-Jaw Parallel Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

024230



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5006AL



Universal jaw steel

UB5006ST



Aluminum adjustment jaw

EB5006AL



Steel adjustment jaw

EB5006ST



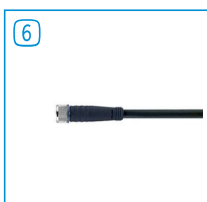
Changeable jaw, loose-part-set

WB5006L



Changeable jaw, fix-part

WB5006F



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

KAG500IL

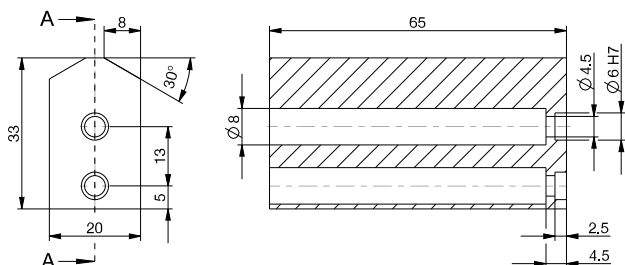


Y-Plug-in Connector

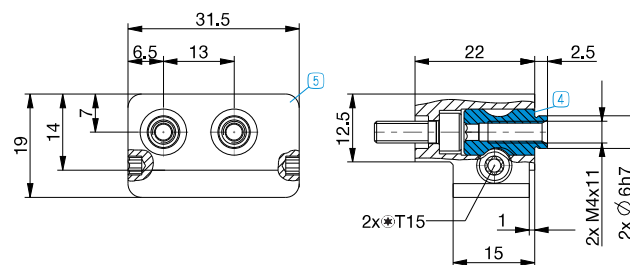
B12-Y-5IL

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw (3) A-A



For each gripper jaw, one interchangeable jaw loose part set (4) and one interchangeable jaw fixed part (5) are needed



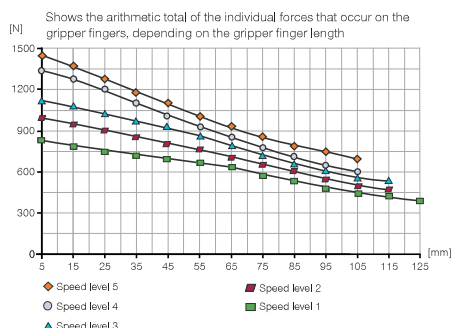
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5008

▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

▶ TECHNICAL DATA - BASIC VERSION

▶ Technical Data

Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	8	8
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0,035	0,035
Permissible weight per jaw max [kg]	0,7	0,7
Length of the gripper fingers max. [mm]	125	125
Repetition accuracy +/- [mm]	0,01	0,01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1,16	1,16

▶ TECHNICAL DATA - MODES

▶ Technical data - N mode

Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force ←→ min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time ←→ min. / max. [s]	0,18 / 0,29	0,18 / 0,29

▶ Technical data - NC mode

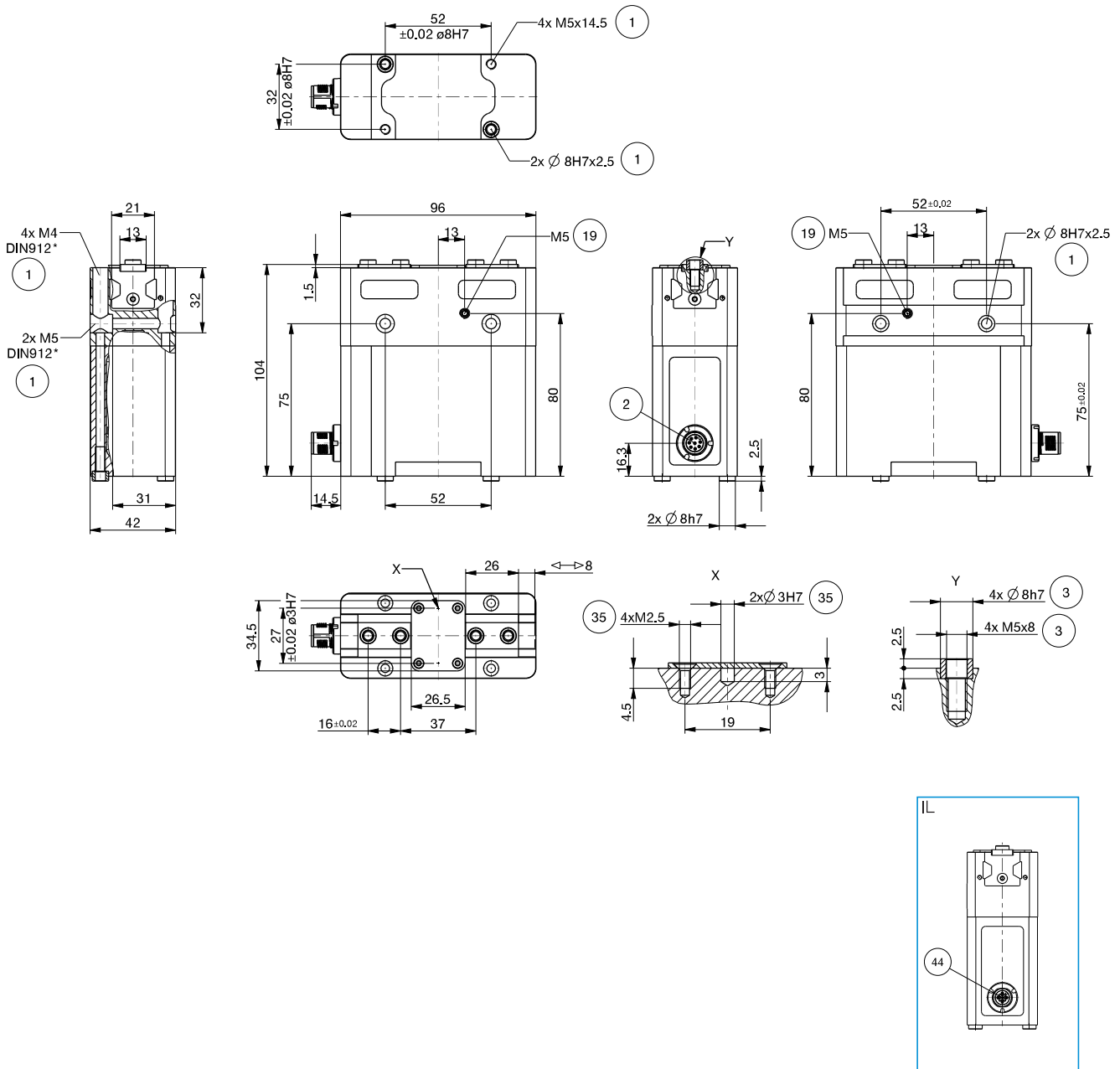
Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force ←→ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time ←→ min. / max. [s]	0,15	0,15

▶ Technical data - NO mode

Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ←→ min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,15	0,15
Travel time ←→ min. / max. [s]	0,18 / 0,29	0,18 / 0,29

TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Energy supply IO-Link (M12, 5-pole)

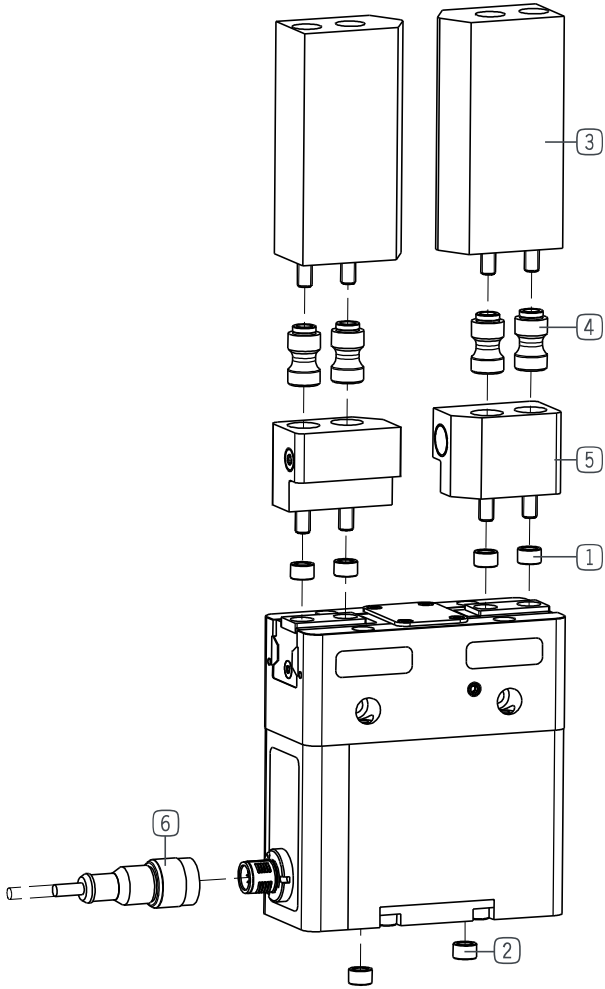


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5008

1

Installation size GEP5008 / 2-Jaw Parallel Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



Aluminum adjustment jaw

EB5008AL



Steel adjustment jaw

EB5008ST



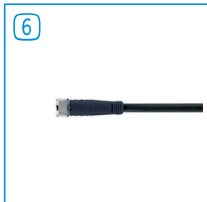
Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

KAG500IL

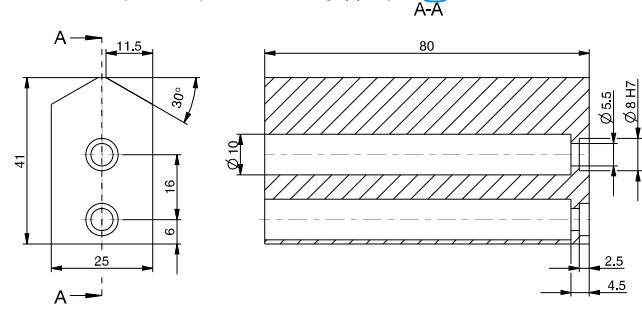


Y-Plug-in Connector

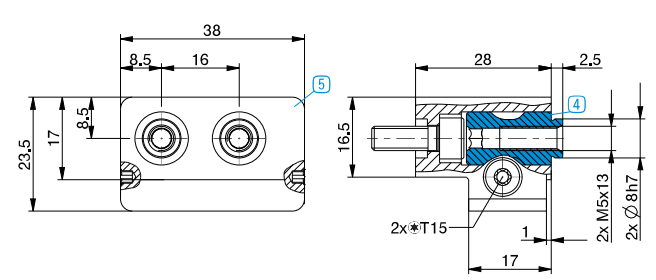
B12-Y-5IL

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw (3)



For each gripper jaw, one interchangeable jaw loose part set (4) and one interchangeable jaw fixed part (5) are needed



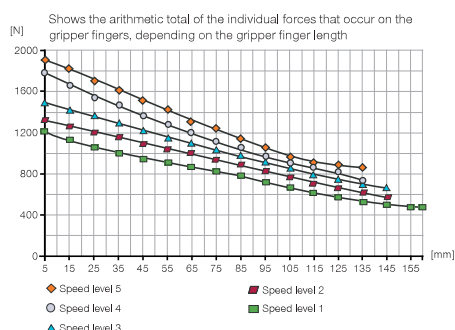
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5010

▶ PRODUCT SPECIFICATIONS

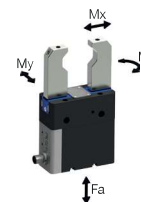


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

▶ TECHNICAL DATA - BASIC VERSION

▶ Technical Data

Order no.	GEP5010IO-00-A	GEP5010IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	10	10
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0,035	0,035
Permissible weight per jaw max [kg]	1,3	1,3
Length of the gripper fingers max. [mm]	160	160
Repetition accuracy +/- [mm]	0,01	0,01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1,66	1,66

▶ TECHNICAL DATA - MODES

▶ Technical data - N mode

Order no.	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force ←→ min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time ←→ min. / max. [s]	0,21 / 0,32	0,21 / 0,32

▶ Technical data - NC mode

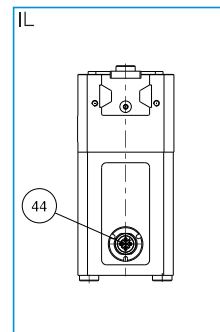
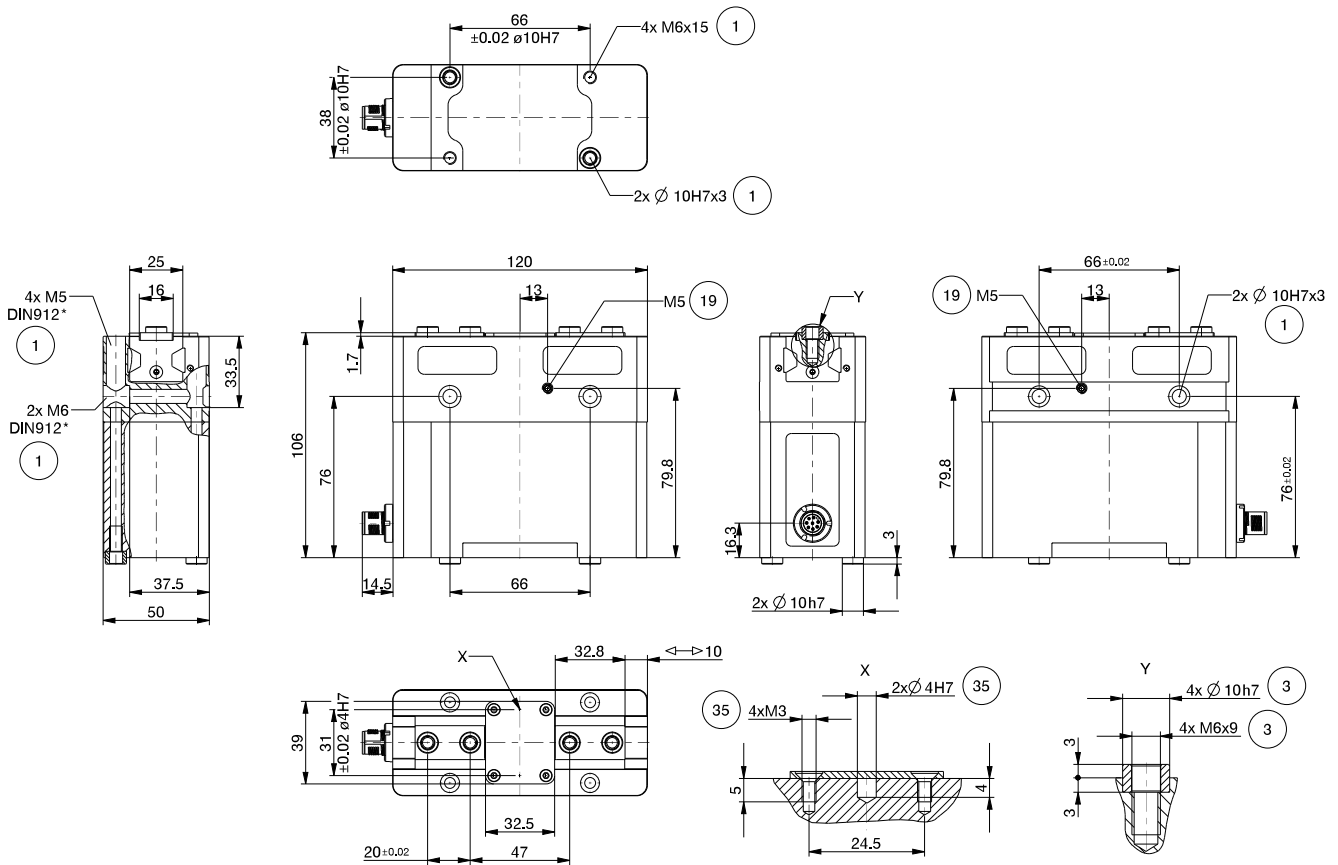
Order no.	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force ←→ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time ←→ min. / max. [s]	0,16	0,16

▶ Technical data - NO mode

Order no.	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ←→ min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,16	0,16
Travel time ←→ min. / max. [s]	0,21 / 0,32	0,21 / 0,32

TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Energy supply IO-Link (M12, 5-pole)

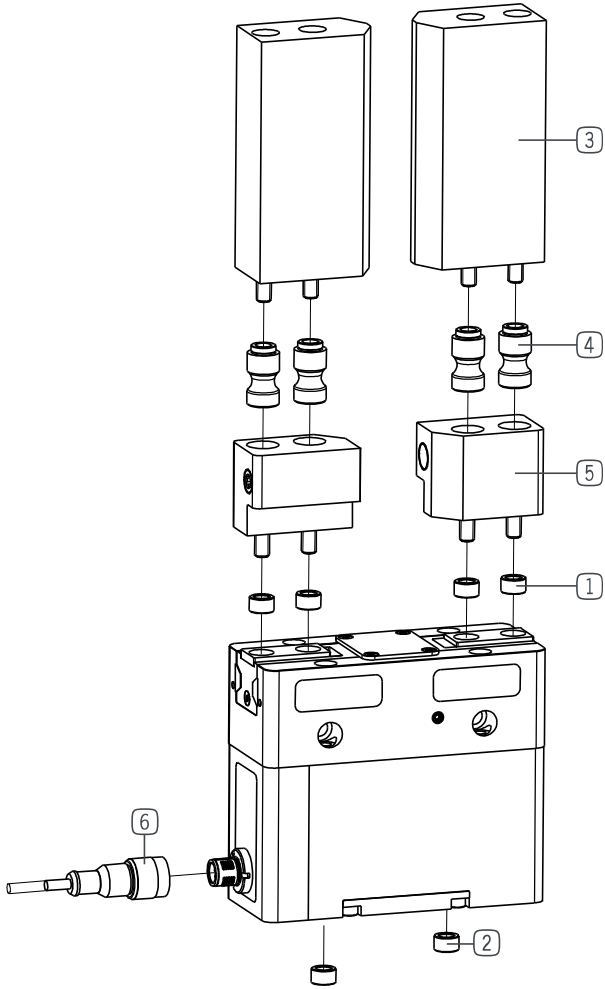


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5010

1

Installation size GEP5010 / 2-Jaw Parallel Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

018187

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose-part-set

WB5010L



Changeable jaw, fix-part

WB5010F



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

KAG500IL

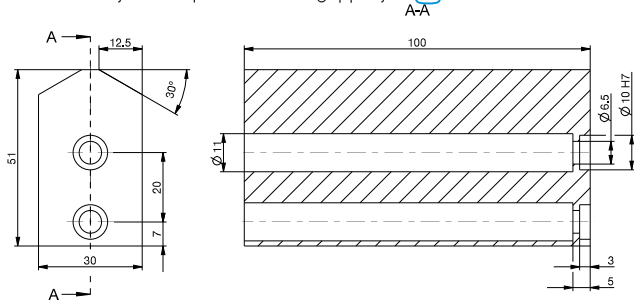


Y-Plug-in Connector

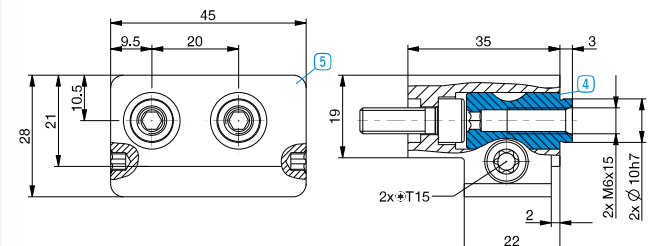
B12-Y-5IL

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw (3)

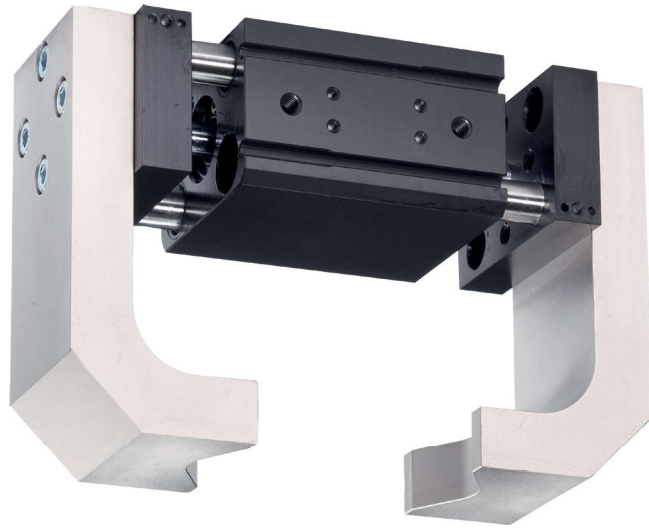


For each gripper jaw, one interchangeable jaw loose part set (4) and one interchangeable jaw fixed part (5) are needed



2-JAW PARALLEL GRIPPERS WITH LONG STROKE

OVERVIEW OF SERIES

**▶ PNEUMATIC**

Series MGH8000

160



Series GH6000

180

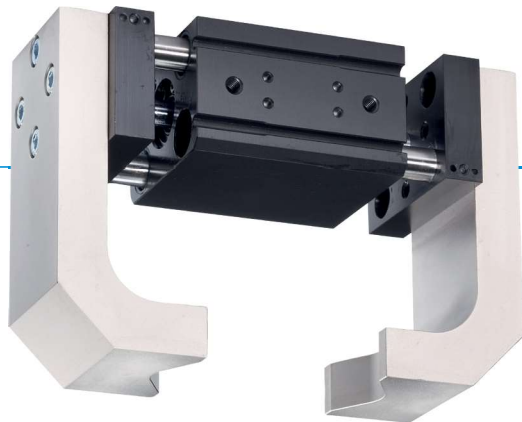


Series GH7000

222

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES MGH8000

▶ PRODUCT ADVANTAGES



“The compact”

▶ **Reduced interference contours**

Low-profile designs and versatile screw connection options enable simple integration into your design

▶ **Dirt protection**

Using the scrapers on the guides, you can reliably use the gripper even under the harshest conditions

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

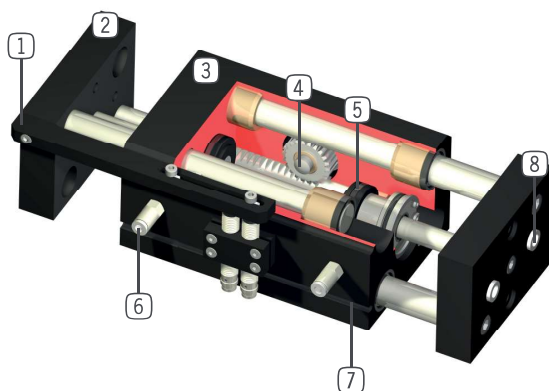
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Attachment kit (cam switch and clamping block)**
 - for sensing position by means of proximity switch (optional feature)
- ② **Gripper jaw**
 - individual gripper finger mounting
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Synchronization**
 - via rack and pinion
- ⑤ **Drive**
 - two double-acting pneumatic cylinders
- ⑥ **Energy supply**
 - possible from several sides
- ⑦ **Integrated groove**
 - mounting and positioning of magnetic field sensors
- ⑧ **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	10 mm - 100 mm
Gripping force	60 N - 910 N
Weight	0,35 kg - 7,3 kg
AP class	2



10 million maintenance-free cycles (max.)



Inductive sensor



IP64



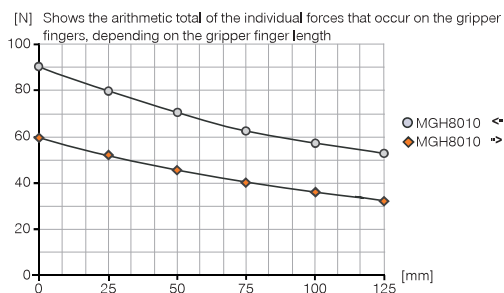
Magnetic field sensor

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8010

▶ PRODUCT SPECIFICATIONS

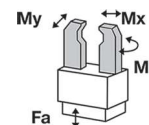


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	12
Mx [Nm]	12
My [Nm]	8
Fa [N]	260

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0027



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 5 m

MFS103KHC



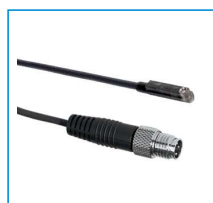
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



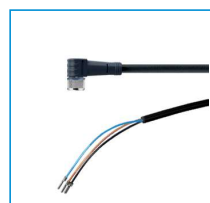
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

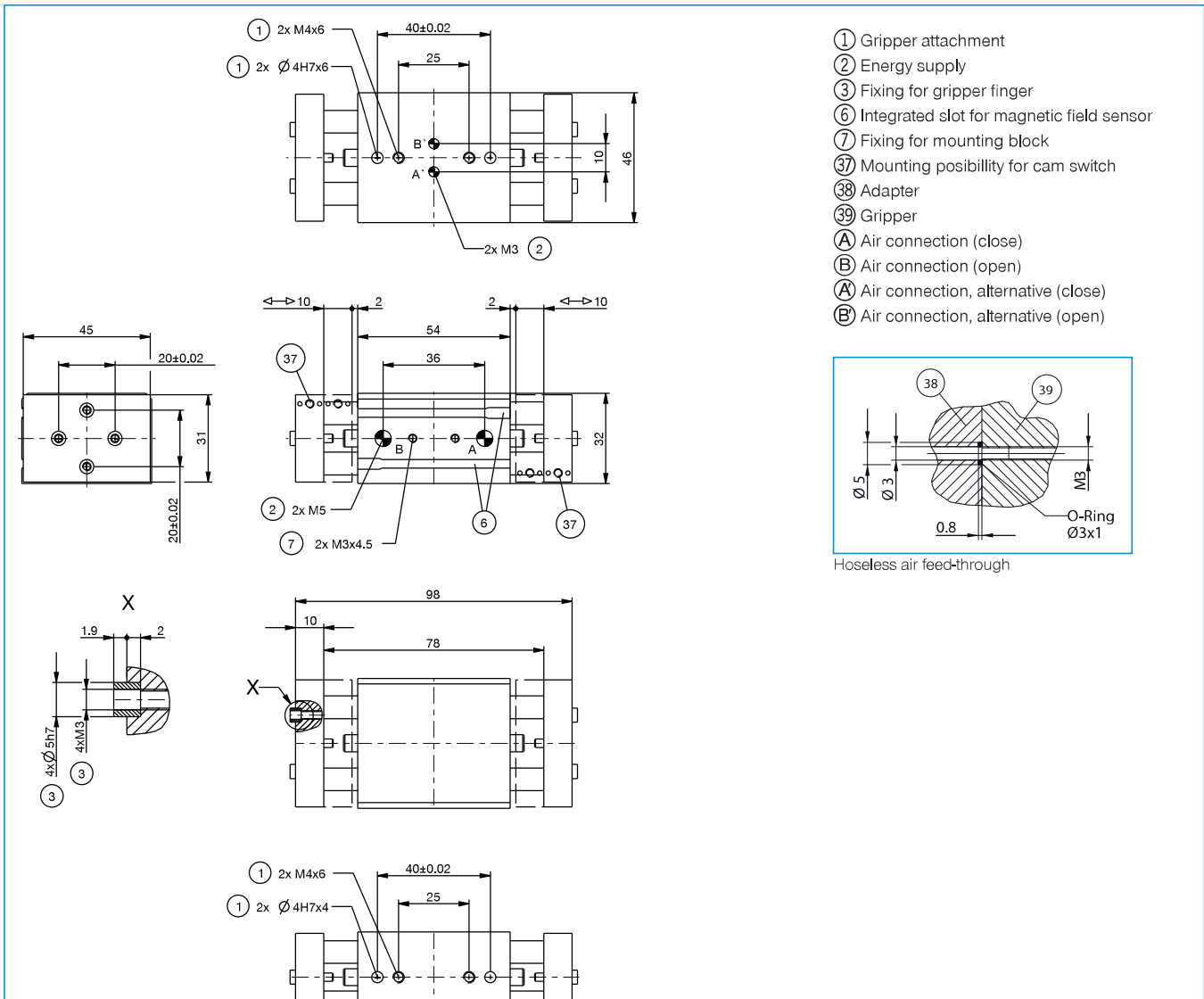


Straight Fittings - Quick Connect Style

GVM5

Order no.	▶ Technical Data*
Stroke per jaw [mm]	10
Gripping force in closing [N]	60
Gripping force in opening [N]	90
Closing time [s]	0.07
Opening time [s]	0.04
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
Air volume per cycle [cm³]	4
Weight [kg]	0.35

*All data measured at 6 bar

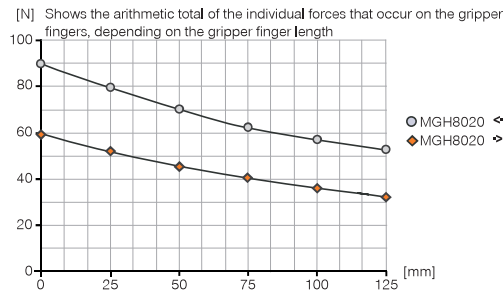


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8020

▶ PRODUCT SPECIFICATIONS

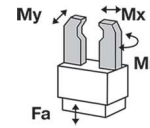


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	12
Mx [Nm]	12
My [Nm]	8
Fa [N]	260

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0028



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 5 m

MFS103KHC



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

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



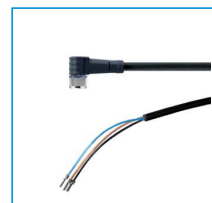
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

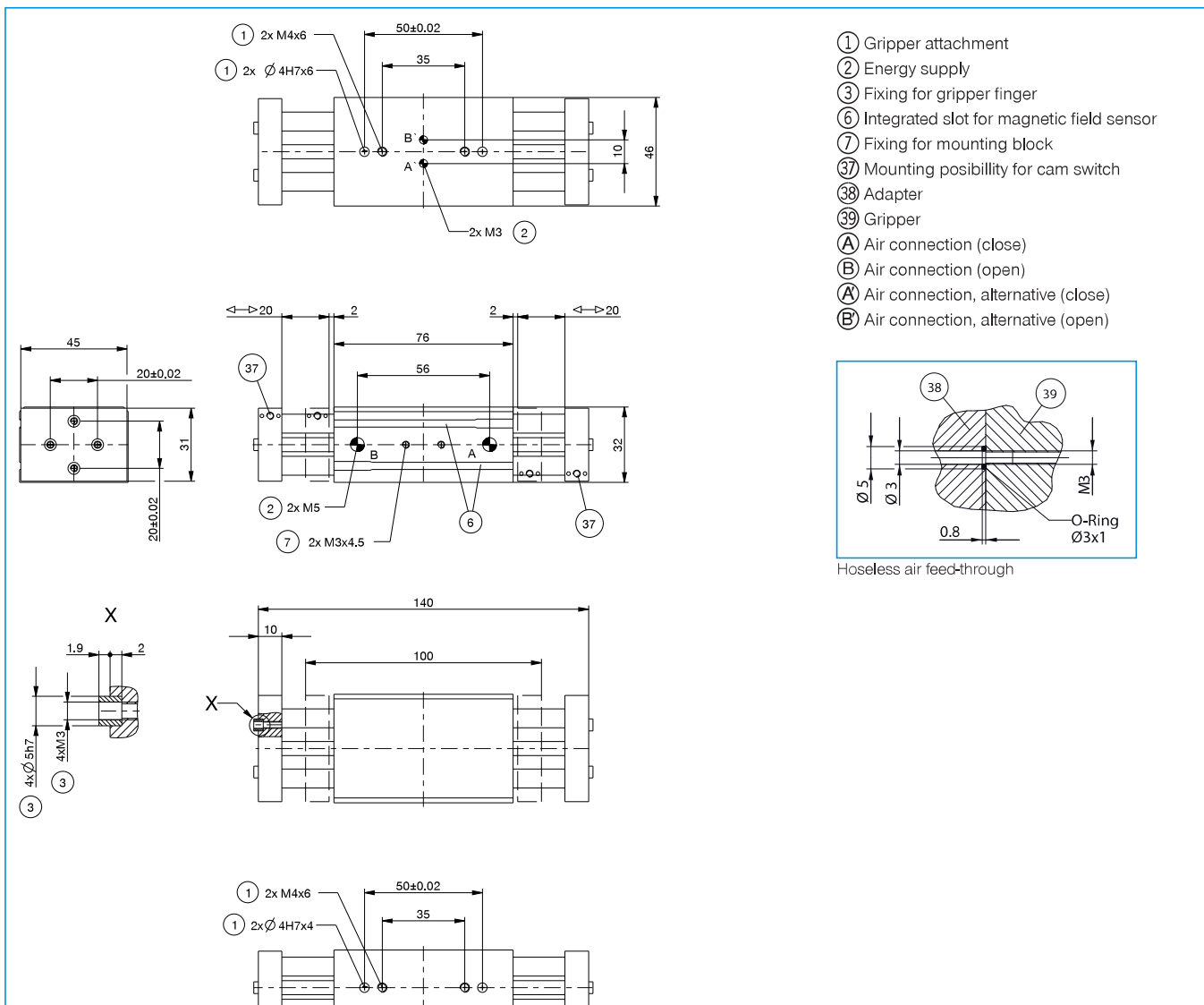


Straight Fittings - Quick Connect Style

GVM5

Order no.	MGH8020
Stroke per jaw [mm]	20
Gripping force in closing [N]	60
Gripping force in opening [N]	90
Closing time [s]	0.09
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
Air volume per cycle [cm³]	8
Weight [kg]	0.5

*All data measured at 6 bar

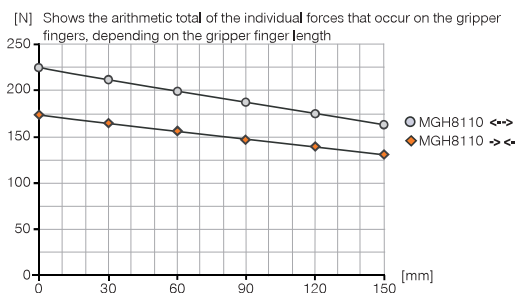


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8110

▶ PRODUCT SPECIFICATIONS

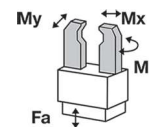


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
Mx [Nm]	20
My [Nm]	18
Fa [N]	435

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0020



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



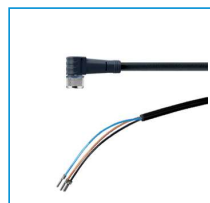
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



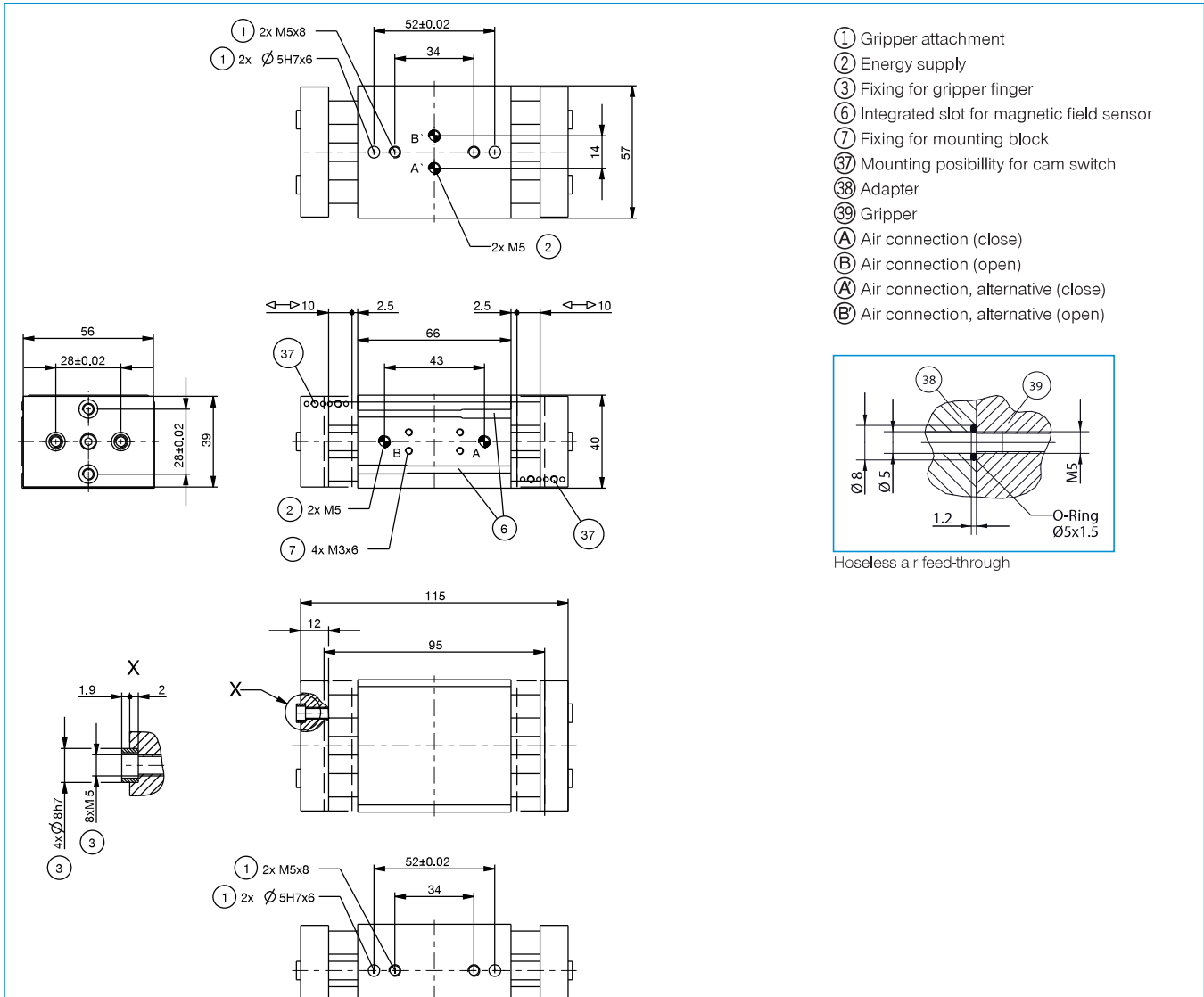
Straight Fittings - Quick Connect Style

GVM5

Order no.	MGH8110
Stroke per jaw [mm]	10
Gripping force in closing [N]	180
Gripping force in opening [N]	220
Closing time [s]	0.08
Opening time [s]	0.04
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
Air volume per cycle [cm³]	9.2
Weight [kg]	0.7

*All data measured at 6 bar

► Technical Data*

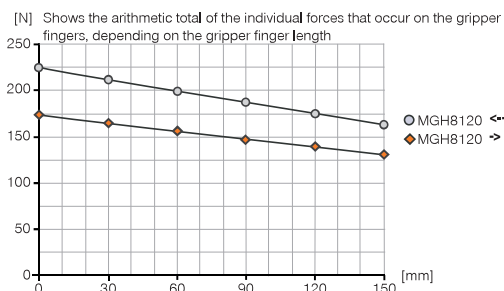


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8120

▶ PRODUCT SPECIFICATIONS

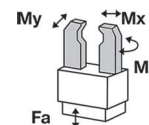


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
Mx [Nm]	20
My [Nm]	18
Fa [N]	435

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0021



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



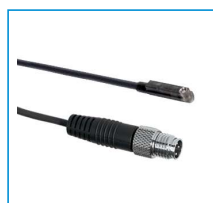
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



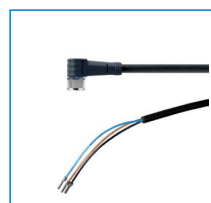
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

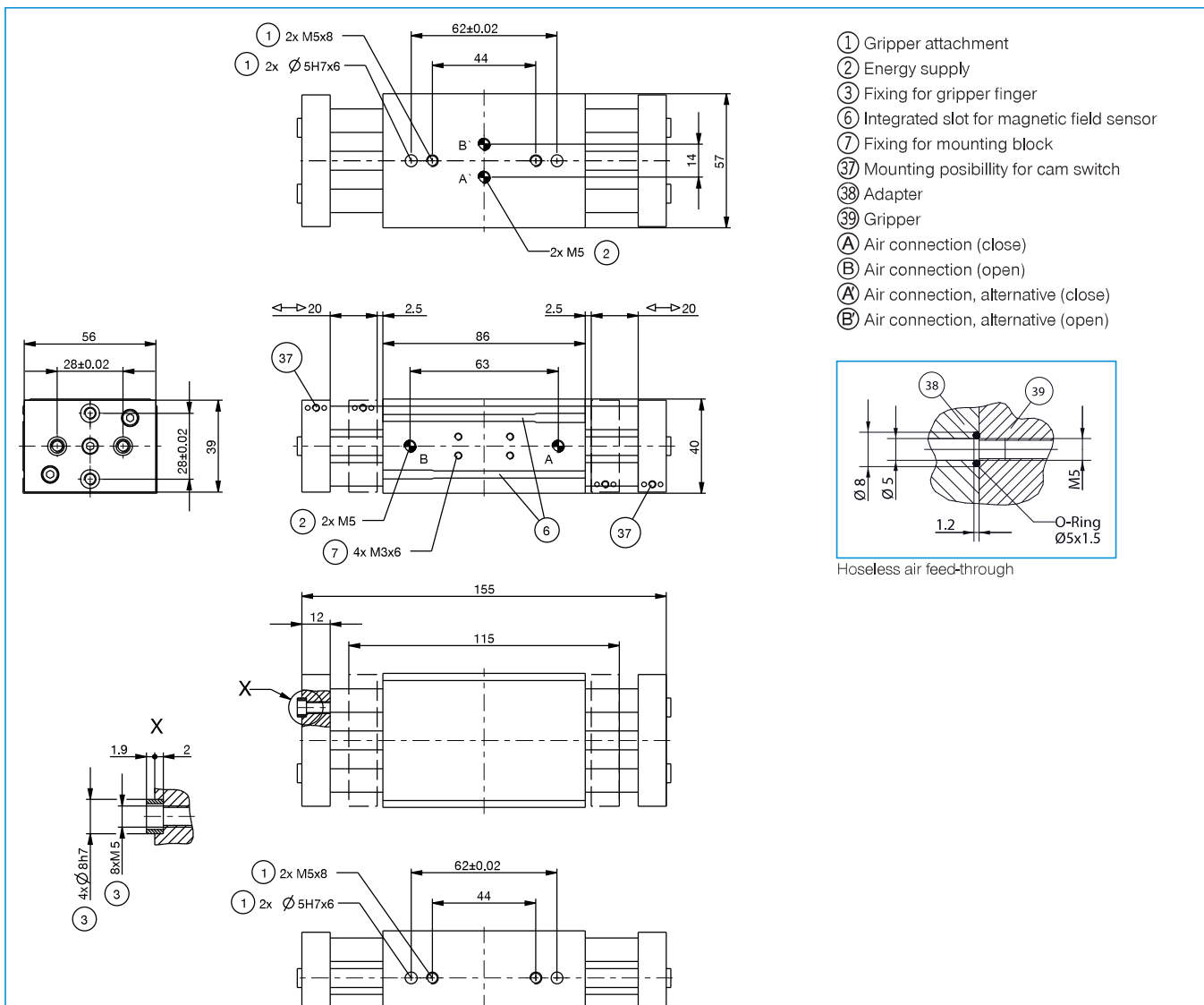


Straight Fittings - Quick Connect Style

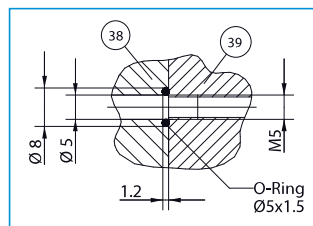
GVM5

Order no.	▶ Technical Data*
Stroke per jaw [mm]	20
Gripping force in closing [N]	190
Gripping force in opening [N]	220
Closing time [s]	0.1
Opening time [s]	0.06
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
Air volume per cycle [cm ³]	18.4
Weight [kg]	0.85

*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
- ⑦ Mounting possibility for cam switch
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



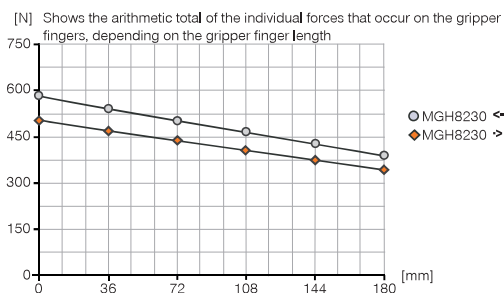
Hoseless air feedthrough

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8230

▶ PRODUCT SPECIFICATIONS

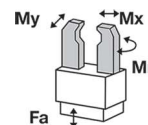


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	64
Mx [Nm]	64
My [Nm]	45
Fa [N]	760

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0022



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



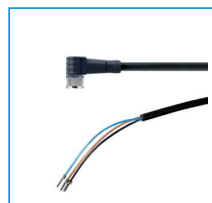
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

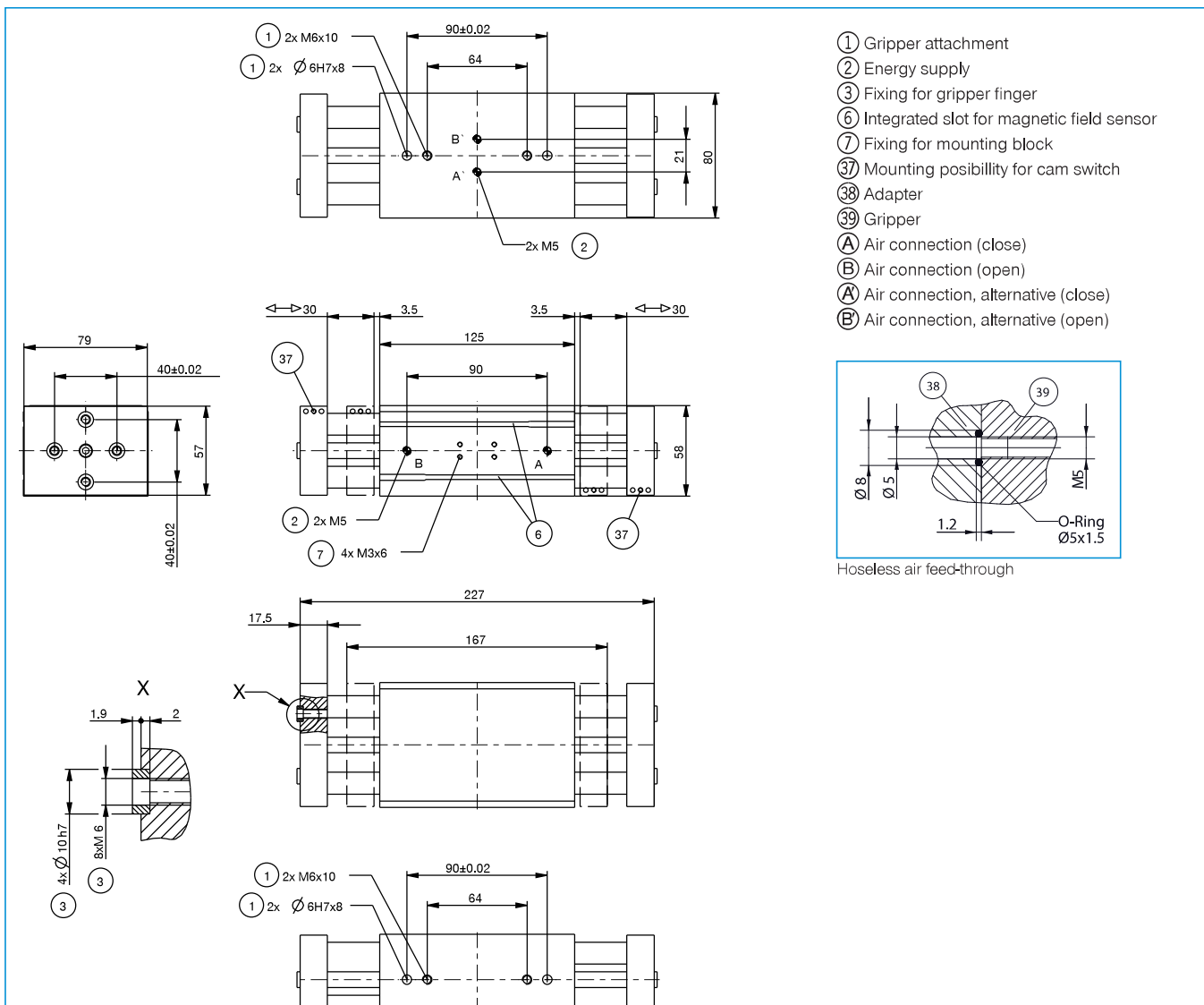


Straight Fittings - Quick Connect Style

GVM5

Order no.	MGH8230
Stroke per jaw [mm]	30
Gripping force in closing [N]	500
Gripping force in opening [N]	570
Closing time [s]	0.14
Opening time [s]	0.1
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
Air volume per cycle [cm³]	64
Weight [kg]	2.4

*All data measured at 6 bar

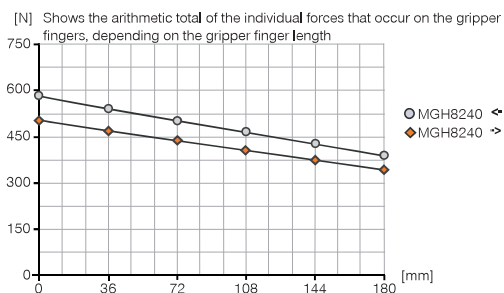


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8240

▶ PRODUCT SPECIFICATIONS

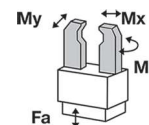


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	64
Mx [Nm]	64
My [Nm]	45
Fa [N]	760

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0023



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



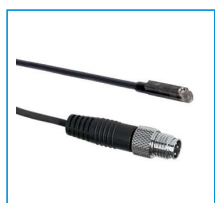
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



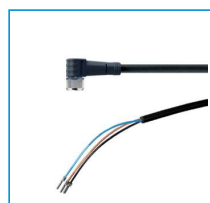
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



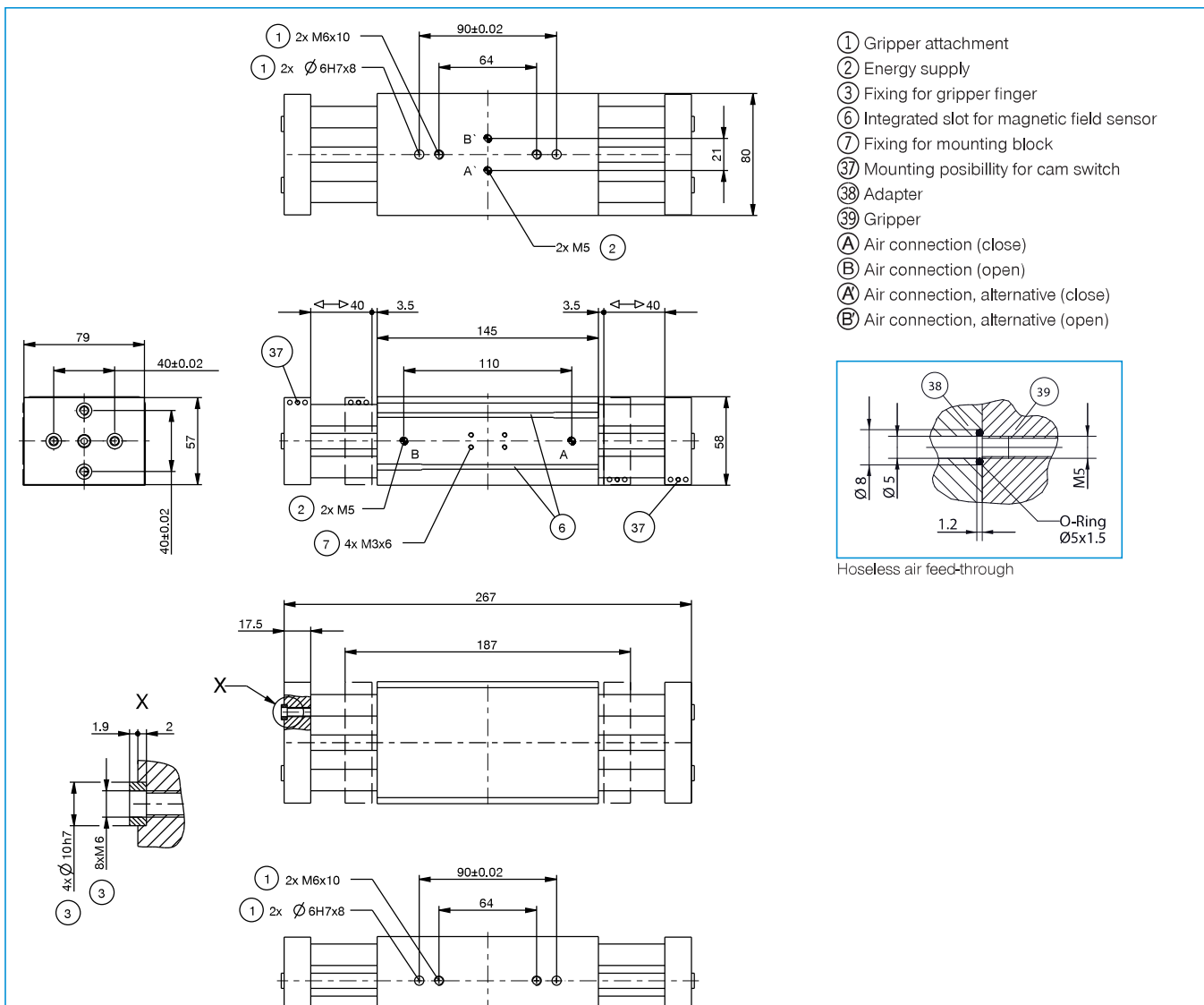
Straight Fittings - Quick Connect Style

GVM5

Order no.	MGH8240
Stroke per jaw [mm]	40
Gripping force in closing [N]	500
Gripping force in opening [N]	570
Closing time [s]	0.18
Opening time [s]	0.14
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
Air volume per cycle [cm³]	128
Weight [kg]	2.9

*All data measured at 6 bar

► Technical Data*

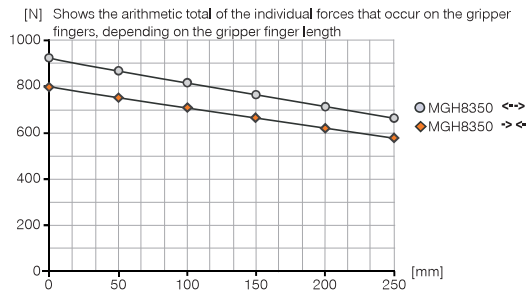


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8350

▶ PRODUCT SPECIFICATIONS

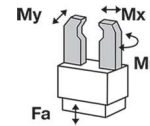


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	130
Mx [Nm]	130
My [Nm]	98
Fa [N]	1300

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0024



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



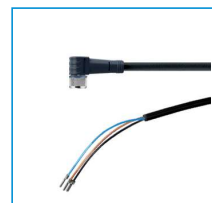
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

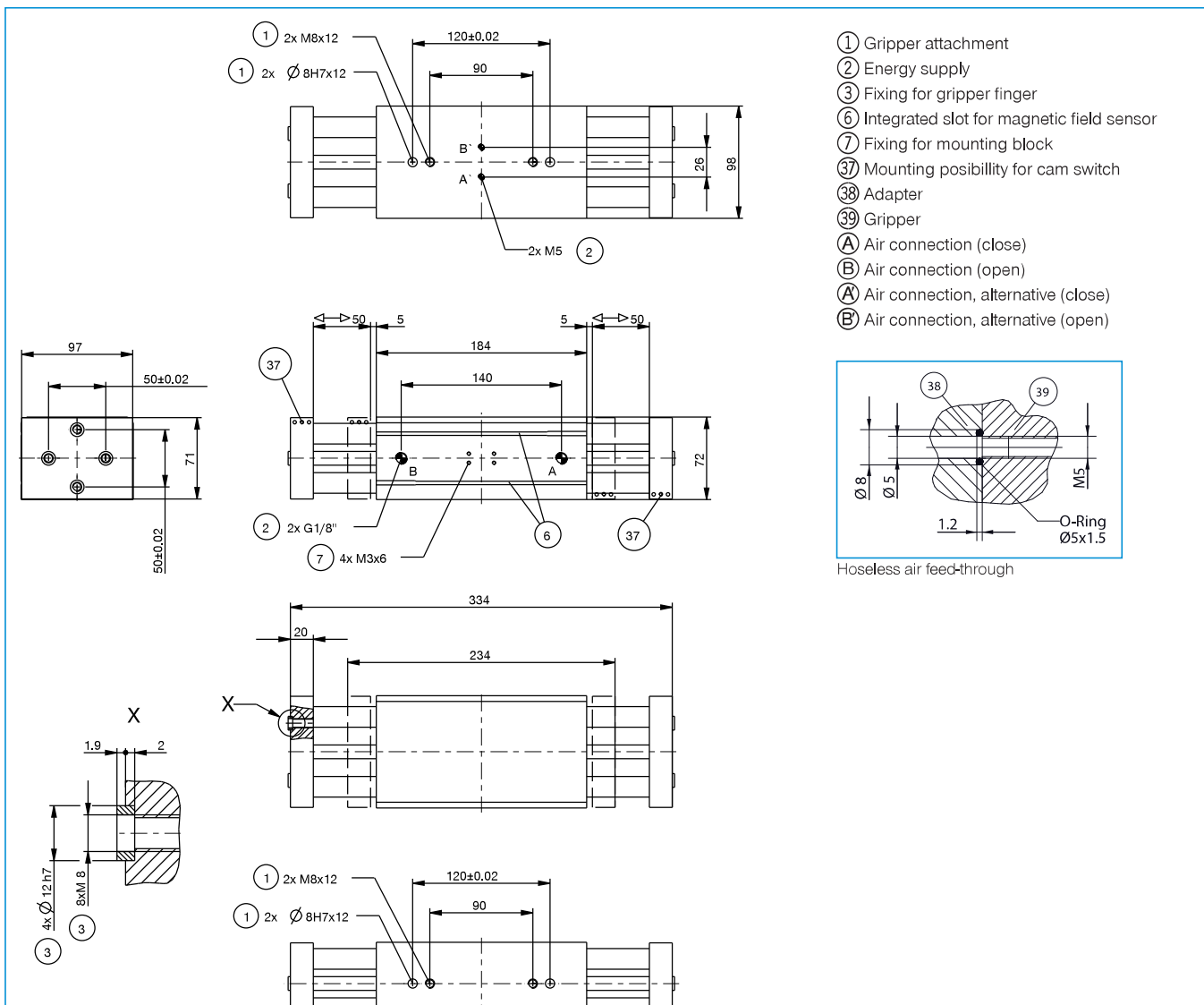


Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	MGH8350
Stroke per jaw [mm]	50
Gripping force in closing [N]	800
Gripping force in opening [N]	910
Closing time [s]	0.3
Opening time [s]	0.25
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
Air volume per cycle [cm³]	170
Weight [kg]	5.1

*All data measured at 6 bar

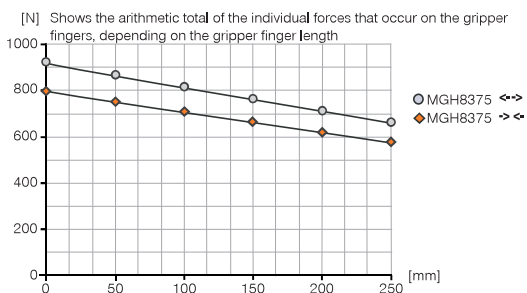


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8375

▶ PRODUCT SPECIFICATIONS

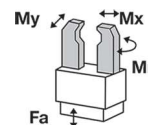


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	130
Mx [Nm]	130
My [Nm]	98
Fa [N]	1300

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0025



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



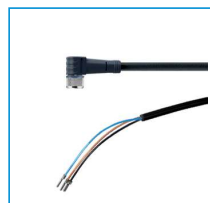
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



Straight Fittings - Quick Connect Style

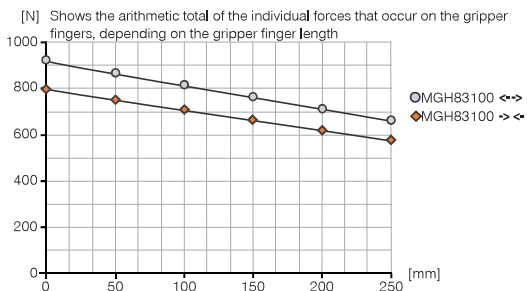
GV1-8X6

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH83100

▶ PRODUCT SPECIFICATIONS

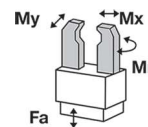


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	130
Mx [Nm]	130
My [Nm]	98
Fa [N]	1300

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0026



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



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



Straight Fittings - Quick Connect Style

GV1-8X6

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GH6000

▶ PRODUCT ADVANTAGES



“The robust”

▶ Gripper jaws may be up to 25% longer in comparison to the benchmark

The highest force and torque measurement enables flexible for maximum dynamics

▶ Over 30% more powerful than the benchmark

Optimisation of weight and force reduces your application costs since all components can have a smaller scale

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

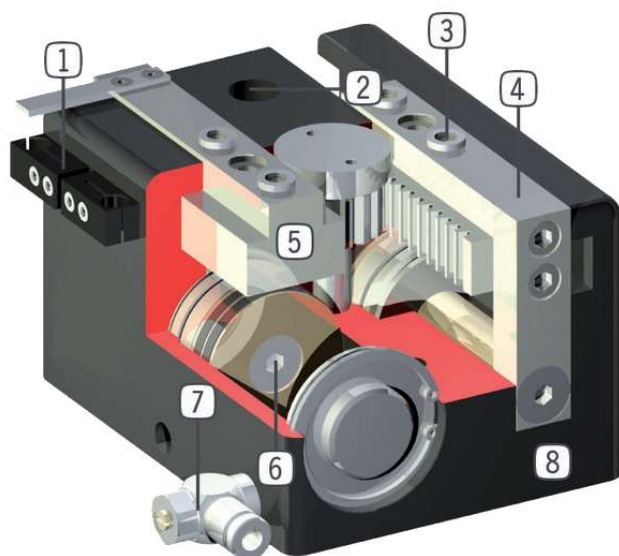
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Mounting block**
 - mounting for inductive proximity switch
- ② **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ③ **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ④ **Gripper jaw**
 - individual gripper finger mounting
- ⑤ **Precise long T-Slot guides**
 - high forces and moments capacity
- ⑥ **Drive**
 - two double-acting pneumatic cylinders
 - synchronized by gearwheel
- ⑦ **Energy supply**
 - possible from several sides
 - CAUTION: always operate long stroke gripper with supplied exhaust air flow control valve (speed regulation)
- ⑧ **Robust, lightweight housing**
 - Hard-coated aluminum alloy

► SERIES CHARACTERISTICS



Number of installation sizes	5
Stroke per jaw	20 mm - 200 mm
Gripping force	120 N - 3400 N
Weight	0,3 kg - 23,8 kg
AP class	3



10 million maintenance-free cycles (max.)



Inductive sensor



IP40



Magnetic field sensor

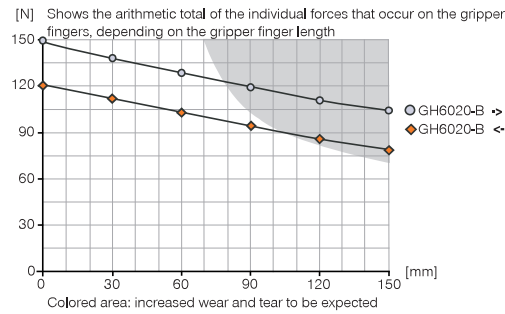
2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6020

Installation size GH6020 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

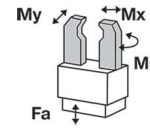


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
Mx [Nm]	20
My [Nm]	20
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRV5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



Magnetic field sensor Angled Cable 5 m

MFS103KHC



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

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



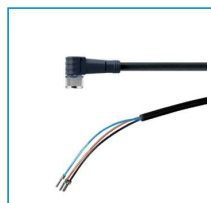
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

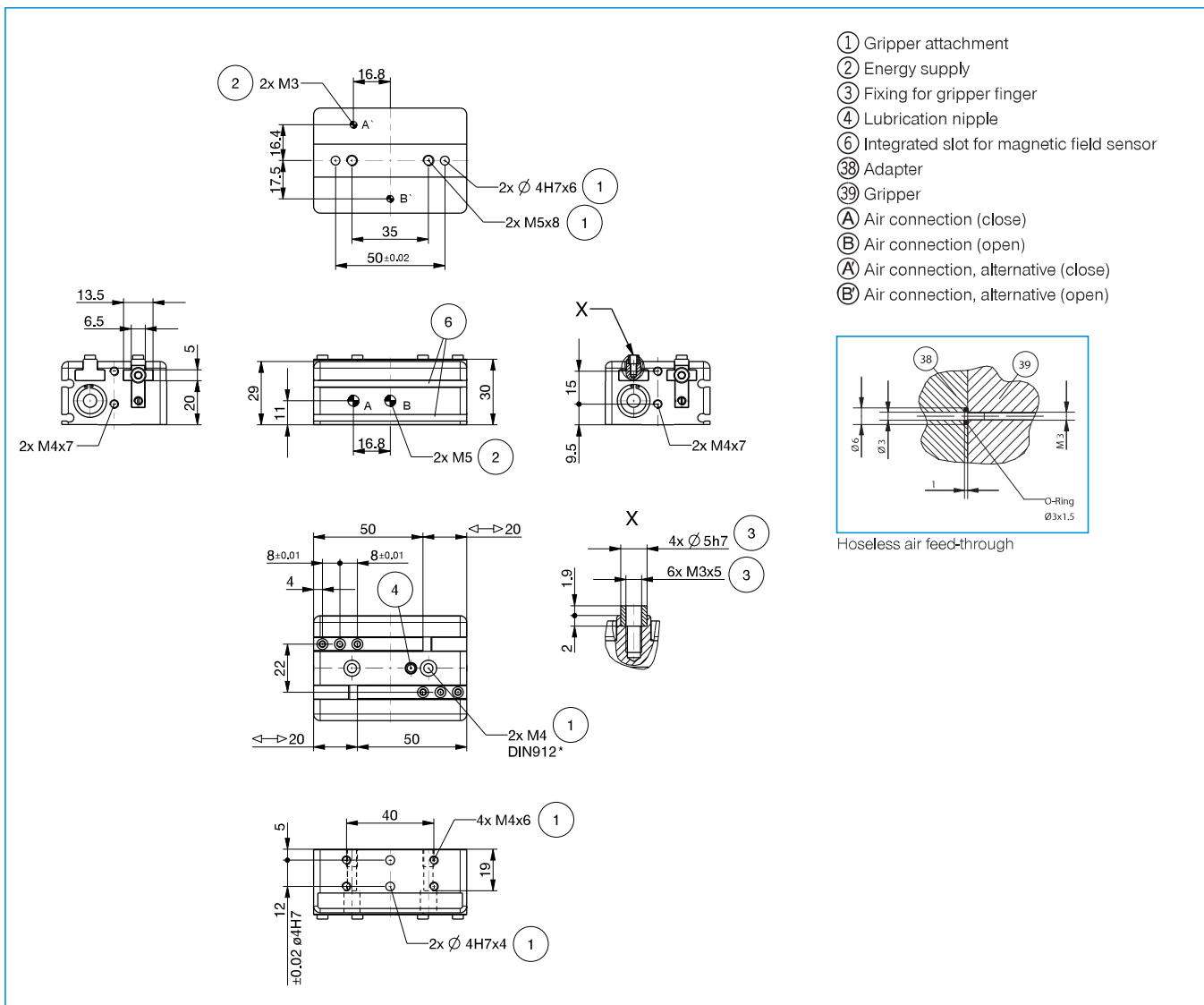


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	20
Gripping force in closing [N]	150
Gripping force in opening [N]	120
Closing time [s]	0.1
Opening time [s]	0.1
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
Air volume per cycle [cm³]	12
Weight [kg]	0.3

*All data measured at 6 bar



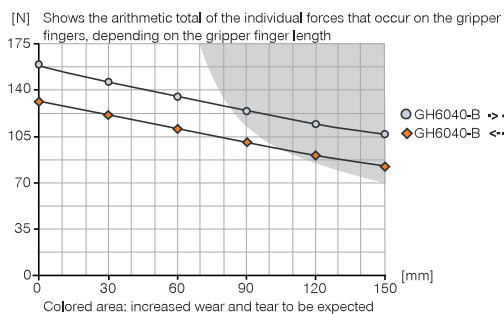
2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6040

Installation size GH6040 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

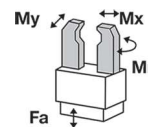


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	35
My [Nm]	35
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB6,5-04



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



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



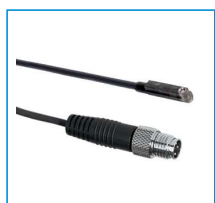
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



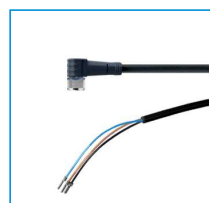
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

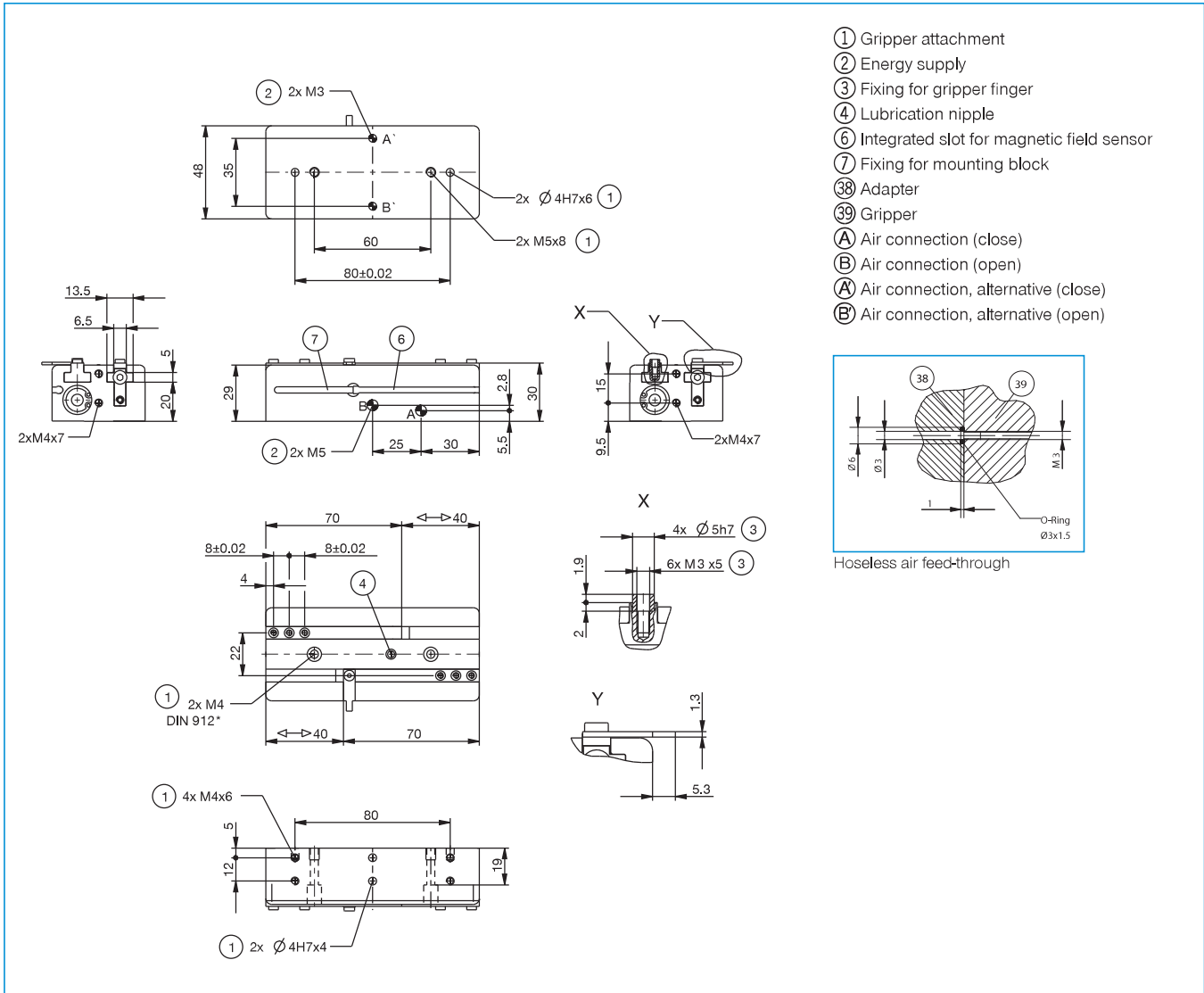


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	40
Gripping force in closing [N]	155
Gripping force in opening [N]	130
Closing time [s]	0.2
Opening time [s]	0.2
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
Air volume per cycle [cm³]	20
Weight [kg]	0.47

*All data measured at 6 bar



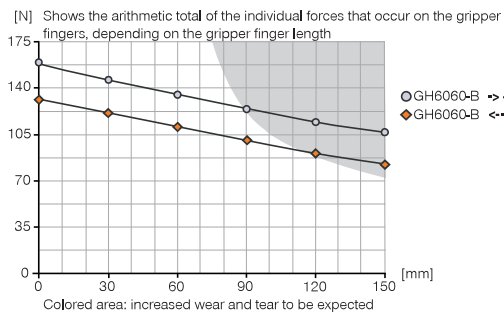
2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6060

Installation size GH6060 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

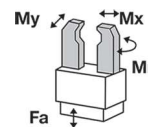


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	50
Mx [Nm]	50
My [Nm]	50
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB6,5-04



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



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



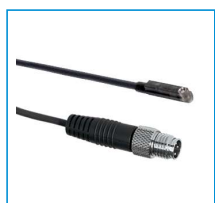
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



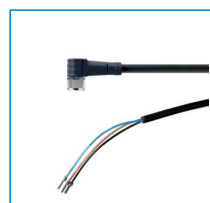
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



Pressure Safety Valve

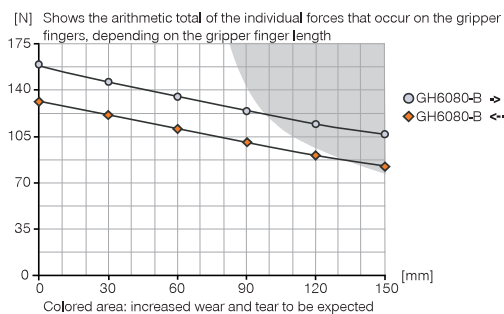
DSV1-8

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6080

▶ PRODUCT SPECIFICATIONS

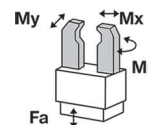


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	65
Mx [Nm]	65
My [Nm]	65
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB6,5-04



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



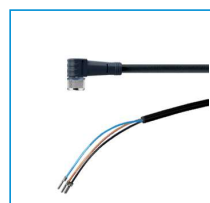
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

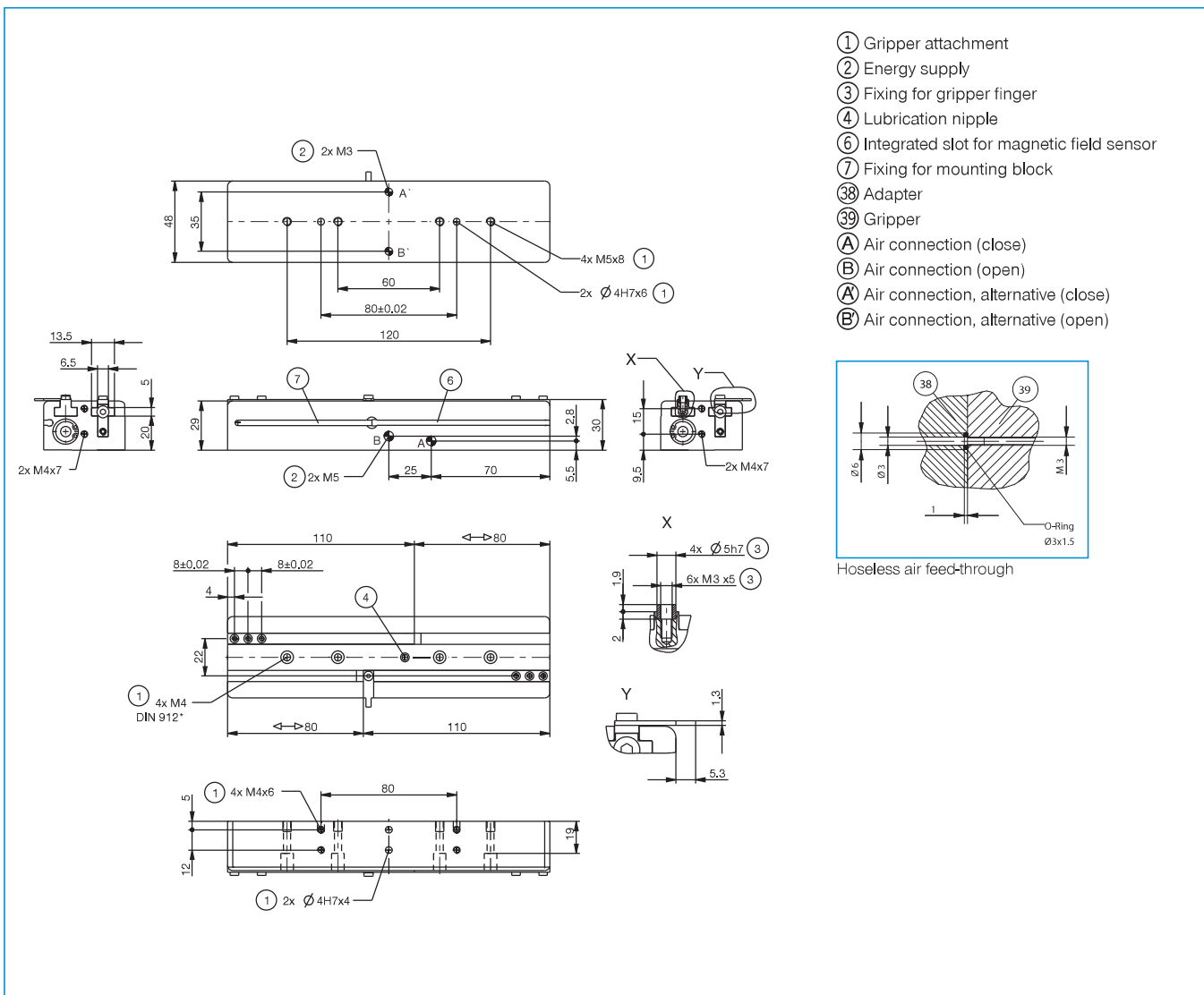


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	80
Gripping force in closing [N]	155
Gripping force in opening [N]	130
Closing time [s]	0.3
Opening time [s]	0.3
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
Air volume per cycle [cm ³]	40
Weight [kg]	0.75

*All data measured at 6 bar

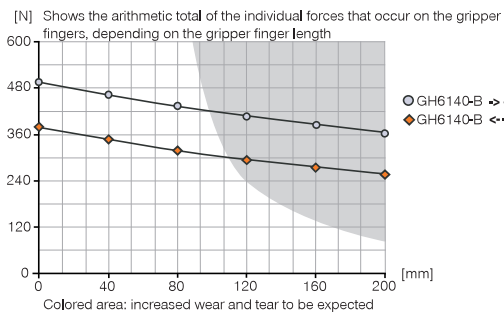


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6140

▶ PRODUCT SPECIFICATIONS

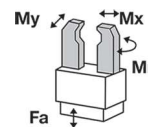


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	70
Mx [Nm]	100
My [Nm]	60
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6140-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



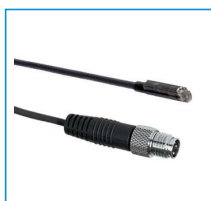
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



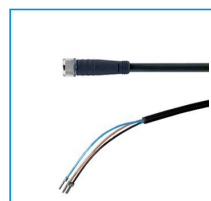
Magnetic field sensor Straight Cable 5 m

MFS204KHC



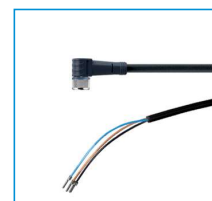
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

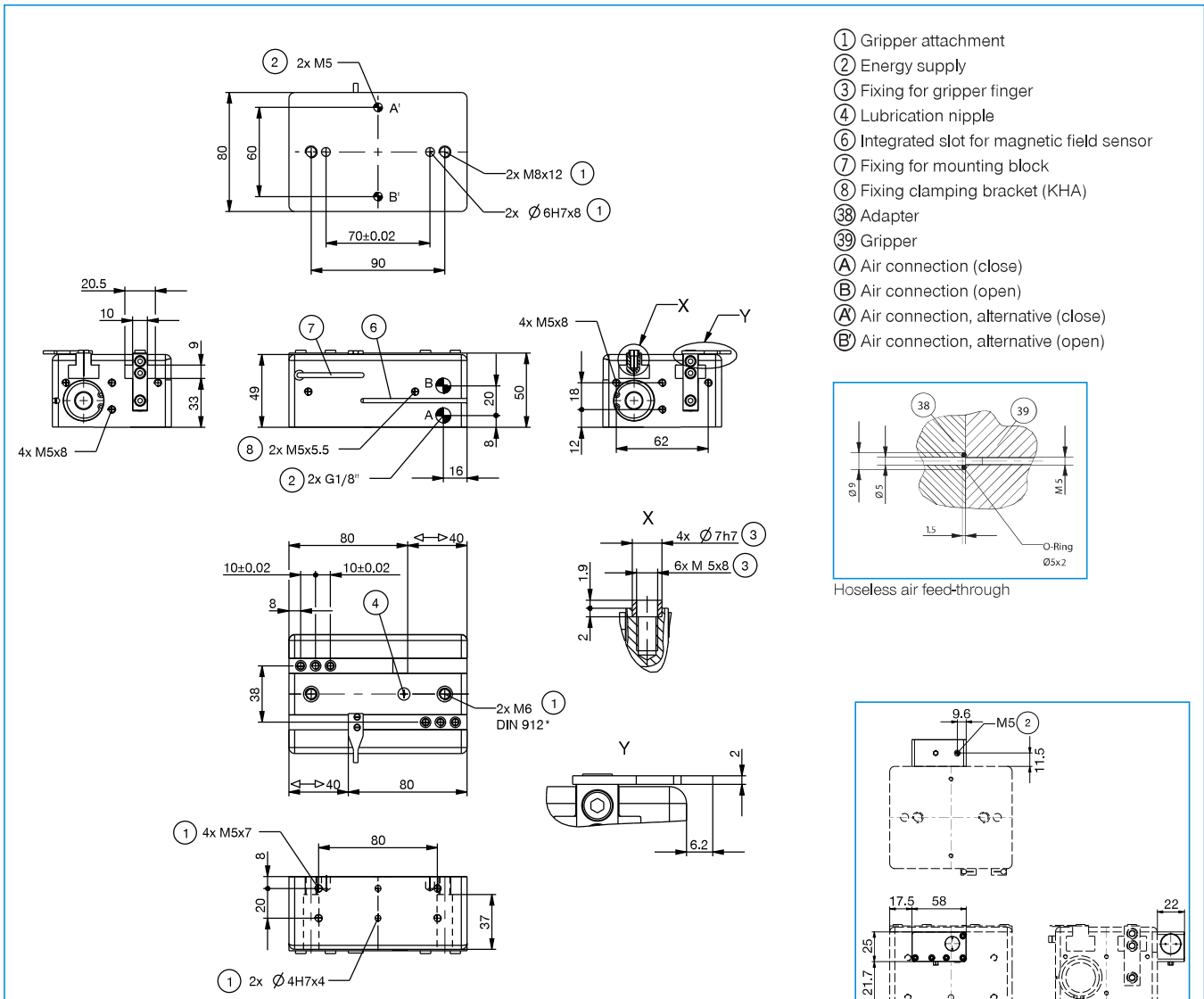


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH6140-B	GHK6140
Stroke per jaw [mm]	40	40
Gripping force in closing [N]	490	490
Gripping force in opening [N]	370	370
Retention force in case of drop in pressure [N]		300
Closing time [s]	0.25	0.25
Opening time [s]	0.25	0.25
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	73	73
Weight [kg]	1.5	1.7

*All data measured at 6 bar
GHK series, see page 221

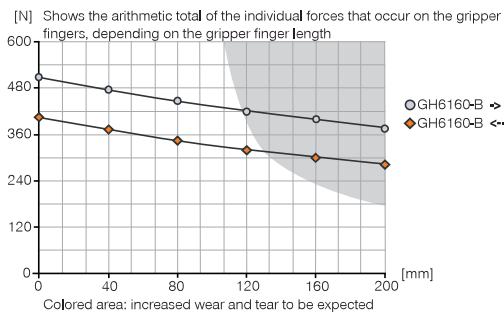


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6160

▶ PRODUCT SPECIFICATIONS

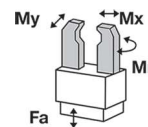


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	85
Mx [Nm]	120
My [Nm]	75
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6160-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



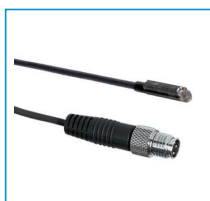
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



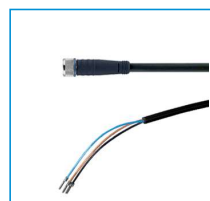
Magnetic field sensor Straight Cable 5 m

MFS204KHC



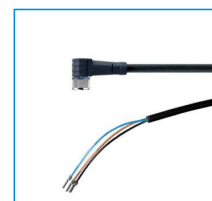
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

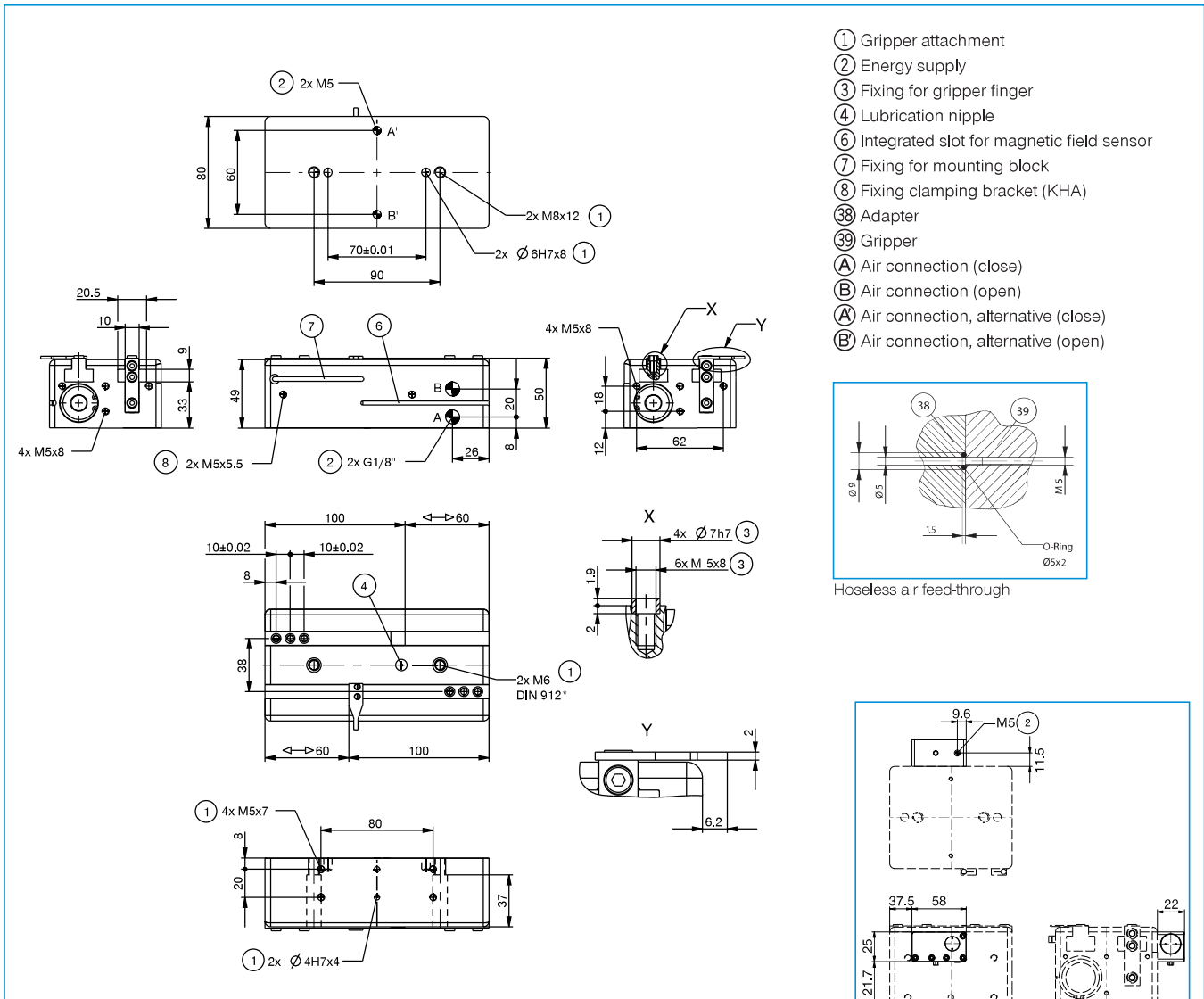


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	Technical Data*	
	GH6160-B	GHK6160
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	510	510
Gripping force in opening [N]	400	400
Retention force in case of drop in pressure [N]		300
Closing time [s]	0,3	0,3
Opening time [s]	0,3	0,3
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	109	109
Weight [kg]	1,9	2,1

*All data measured at 6 bar
GHK series, see page 221

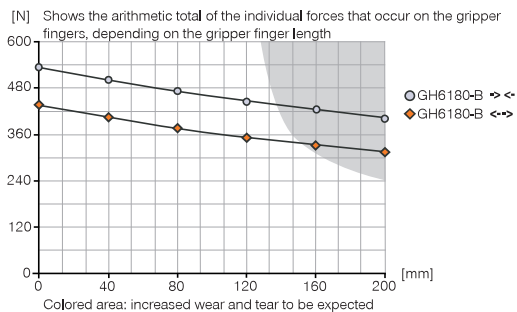


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6180

▶ PRODUCT SPECIFICATIONS

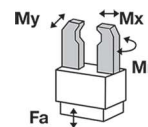


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	120
Mx [Nm]	140
My [Nm]	90
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6180-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



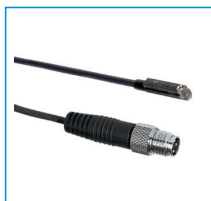
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



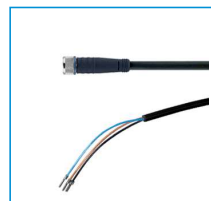
Magnetic field sensor Straight Cable 5 m

MFS204KHC



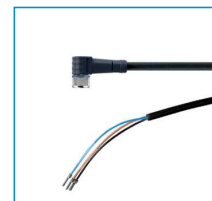
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

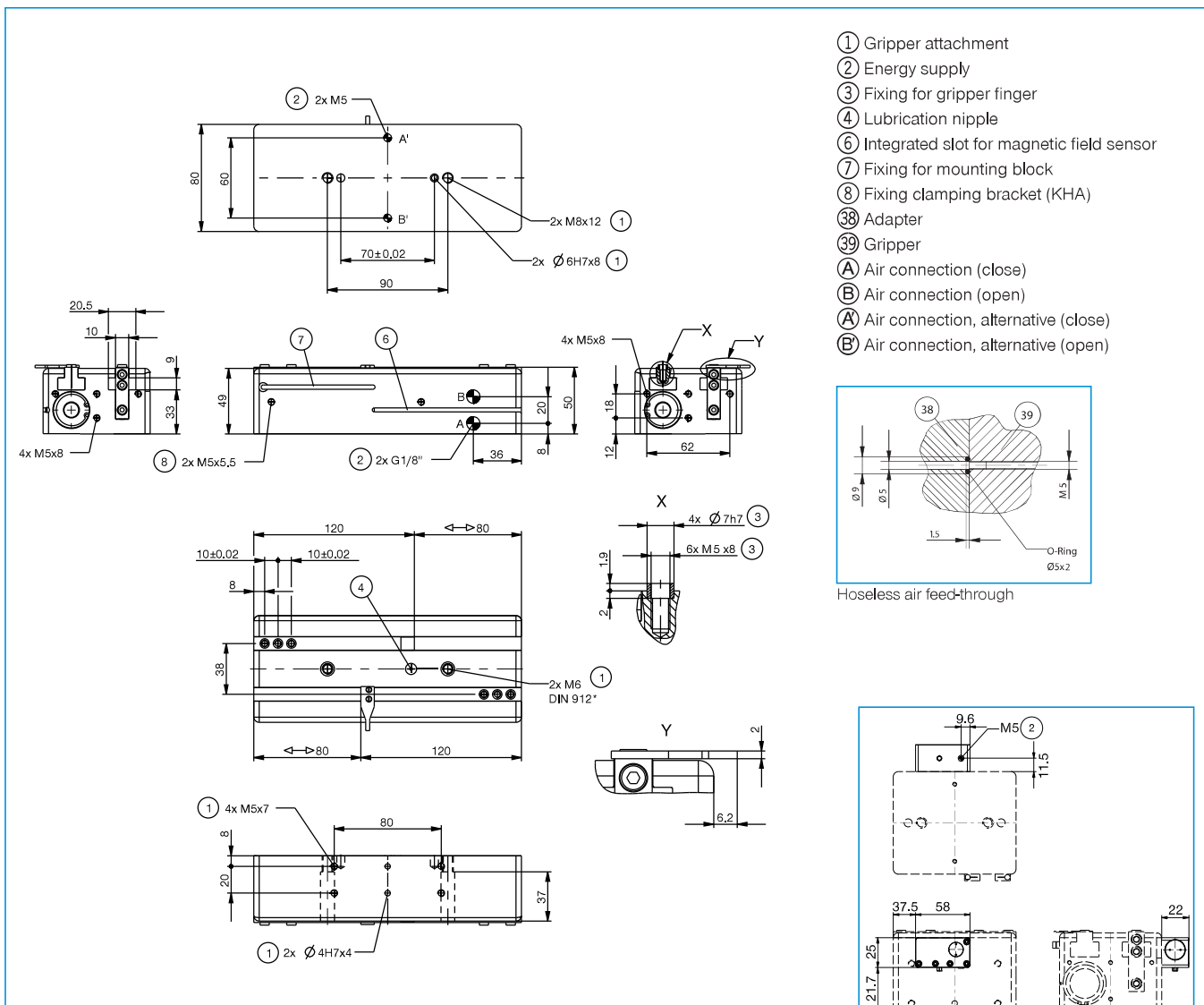


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	▶ Technical Data*	
	GH6180-B	GHK6180
Stroke per jaw [mm]	80	80
Gripping force in closing [N]	530	530
Gripping force in opening [N]	430	430
Retention force in case of drop in pressure [N]		300
Closing time [s]	0,35	0,35
Opening time [s]	0,35	0,35
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	145	145
Weight [kg]	2,2	2,4

*All data measured at 6 bar
GHK series, see page 221

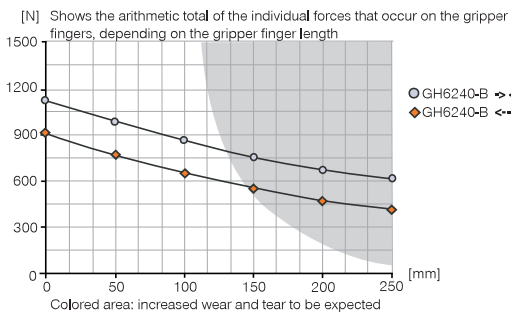


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6240

▶ PRODUCT SPECIFICATIONS

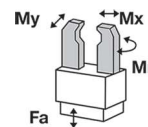


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	125
My [Nm]	80
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA6240-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



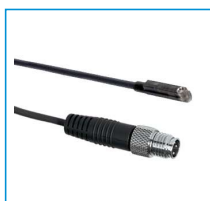
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



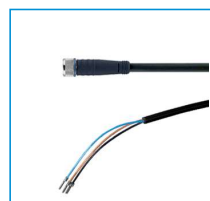
Magnetic field sensor Straight Cable 5 m

MFS204KHC



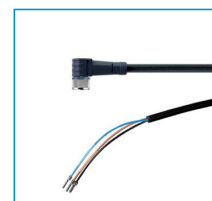
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

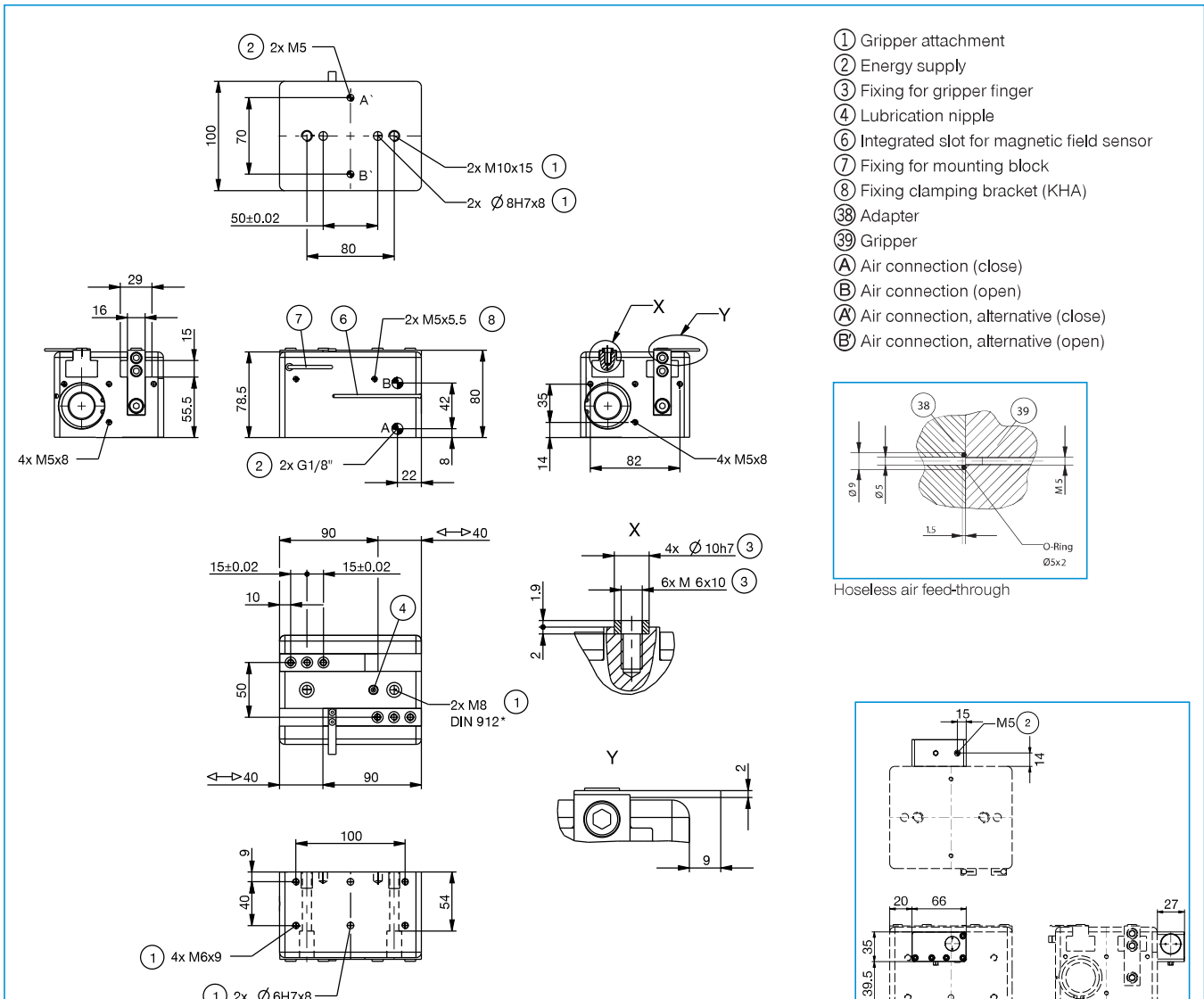


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	Technical Data*	
	GH6240-B	GHK6240
Stroke per jaw [mm]	40	40
Gripping force in closing [N]	1120	1120
Gripping force in opening [N]	900	900
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,3	0,3
Opening time [s]	0,3	0,3
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	183	183
Weight [kg]	3,3	3,8

*All data measured at 6 bar
GHK series, see page 221

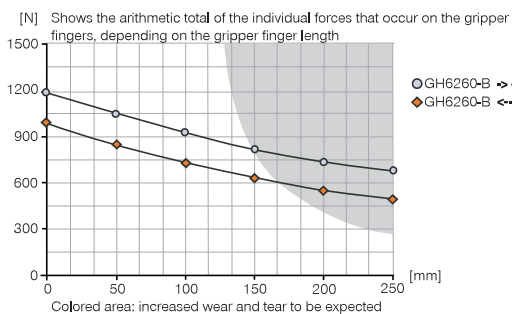


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6260

▶ PRODUCT SPECIFICATIONS

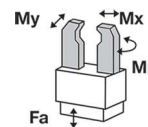


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	120
Mx [Nm]	150
My [Nm]	180
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA6260-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



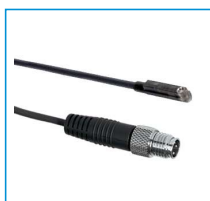
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



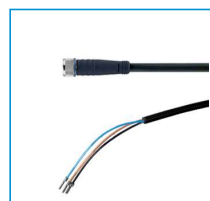
Magnetic field sensor Straight Cable 5 m

MFS204KHC



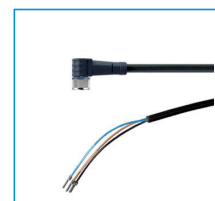
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

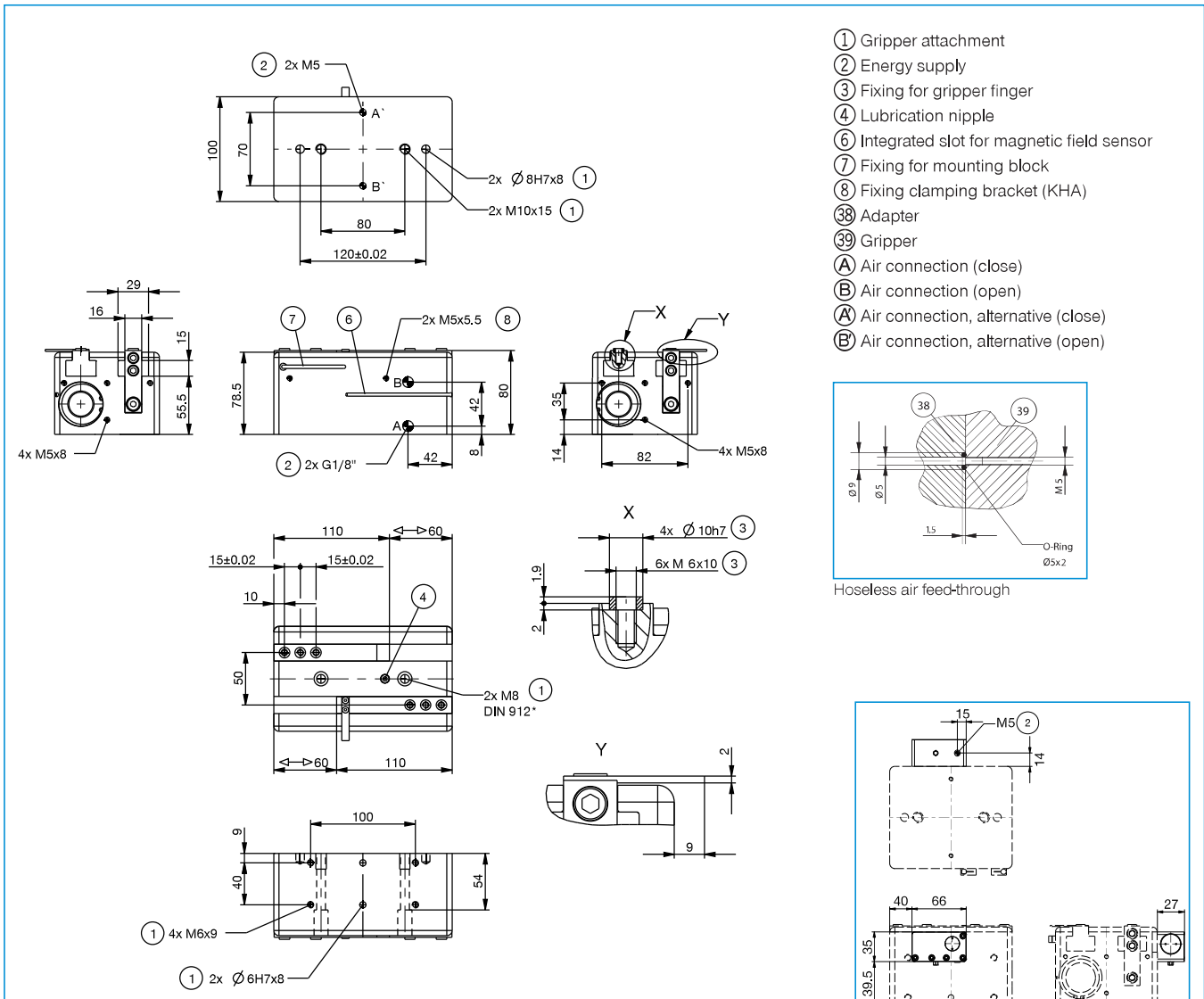


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH6260-B	GHK6260
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	1200	1200
Gripping force in opening [N]	980	980
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,35	0,35
Opening time [s]	0,35	0,35
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	275	275
Weight [kg]	4,1	4,6

*All data measured at 6 bar
GHK series, see page 221

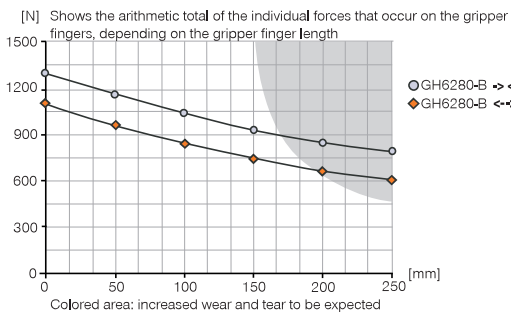


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6280

▶ PRODUCT SPECIFICATIONS

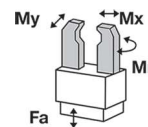


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	140
Mx [Nm]	175
My [Nm]	120
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA6280-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



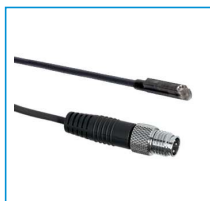
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



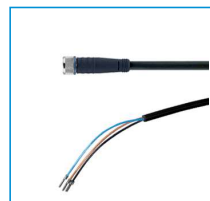
Magnetic field sensor Straight Cable 5 m

MFS204KHC



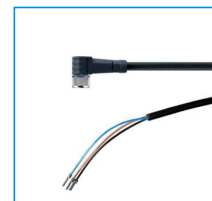
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

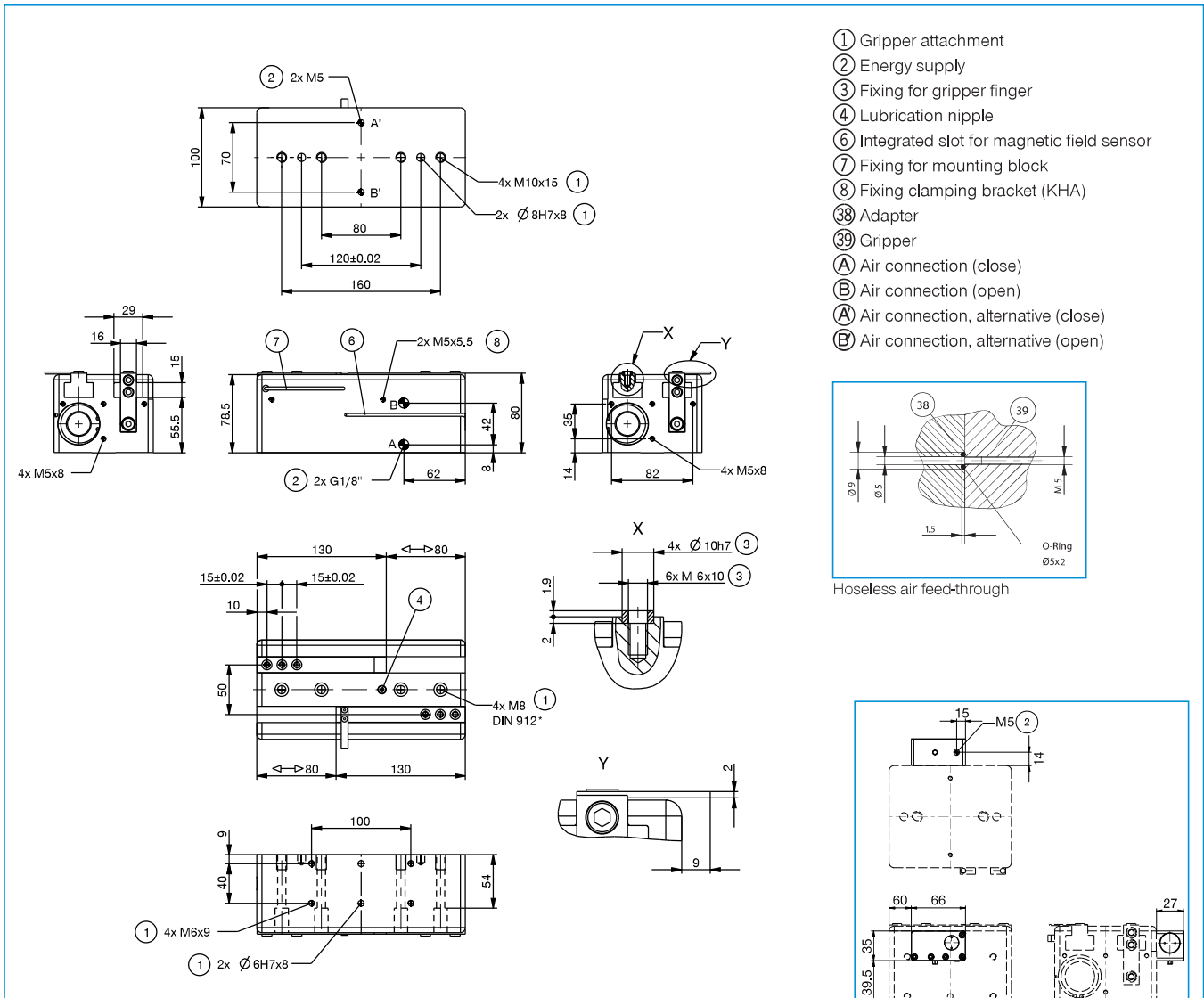


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	Technical Data*	
	GH6280-B	GHK6280
Stroke per jaw [mm]	80	80
Gripping force in closing [N]	1280	1280
Gripping force in opening [N]	1100	1100
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,4	0,4
Opening time [s]	0,4	0,4
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	367	367
Weight [kg]	4,8	5,3

*All data measured at 6 bar
GHK series, see page 221

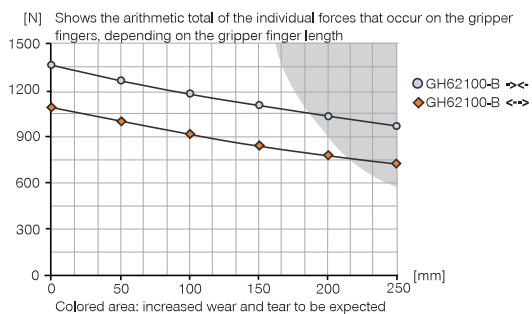


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH62100

▶ PRODUCT SPECIFICATIONS

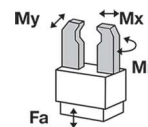


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	160
Mx [Nm]	200
My [Nm]	140
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA62100-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



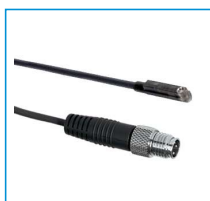
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



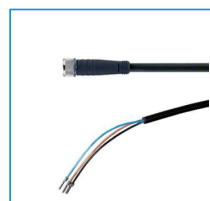
Magnetic field sensor Straight Cable 5 m

MFS204KHC



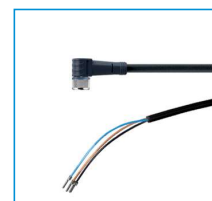
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

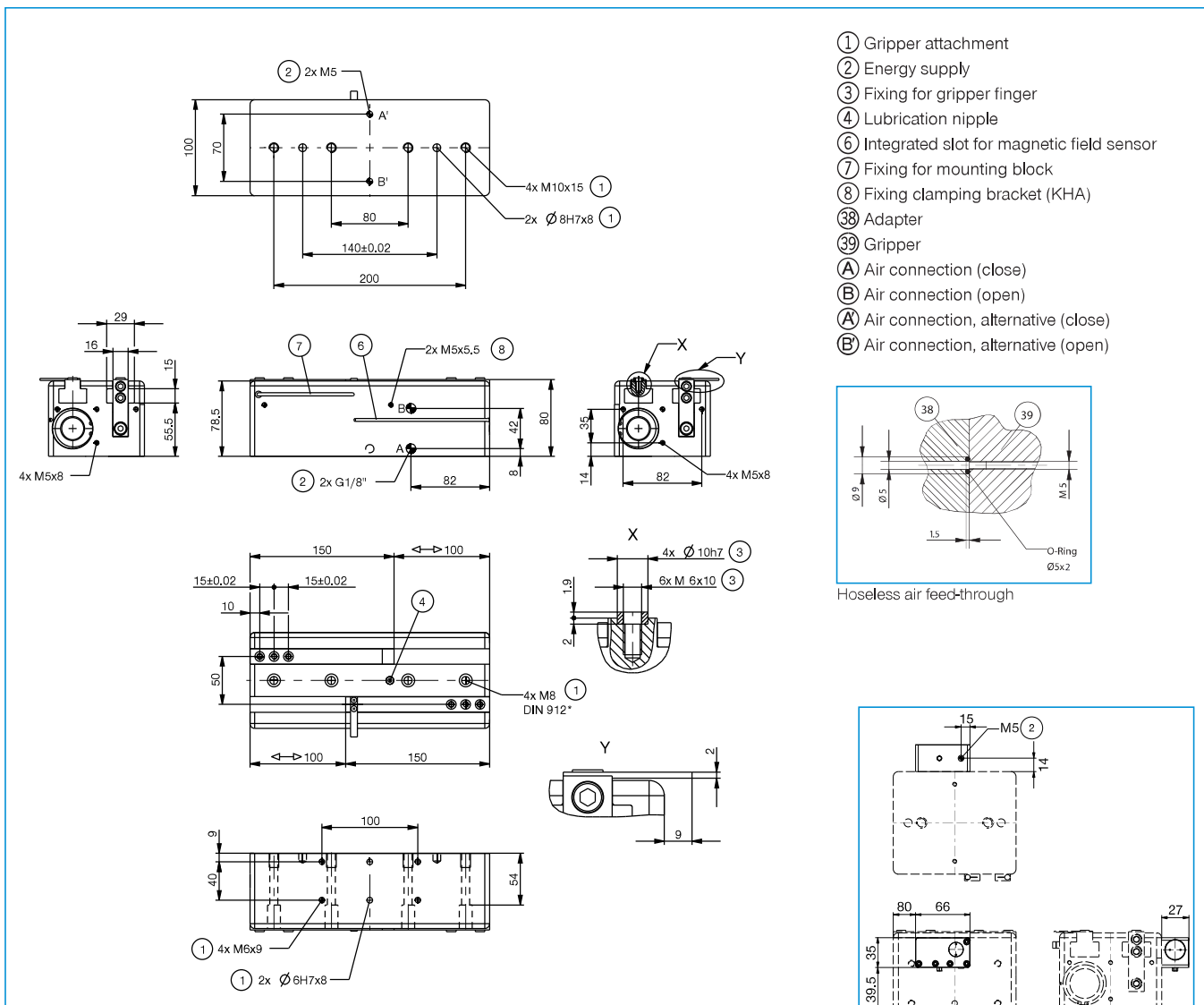


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

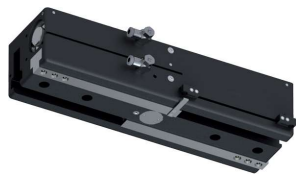
Order no.	► Technical Data*	
	GH62100-B	GHK62100
Stroke per jaw [mm]	100	100
Gripping force in closing [N]	1350	1350
Gripping force in opening [N]	1100	1100
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,45	0,45
Opening time [s]	0,45	0,45
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	458	458
Weight [kg]	5,6	6,1

*All data measured at 6 bar
GHK series, see page 221

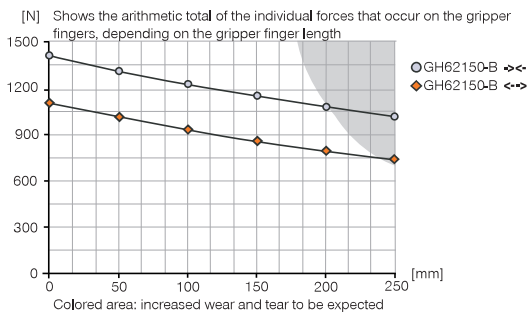


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH62150

▶ PRODUCT SPECIFICATIONS

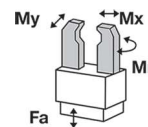


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	225
My [Nm]	160
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA62150-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



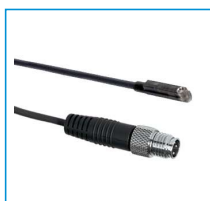
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



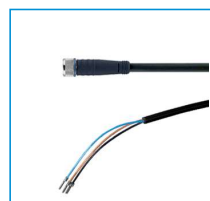
Magnetic field sensor Straight Cable 5 m

MFS204KHC



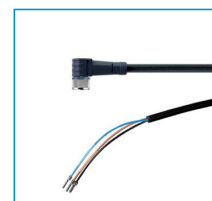
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500

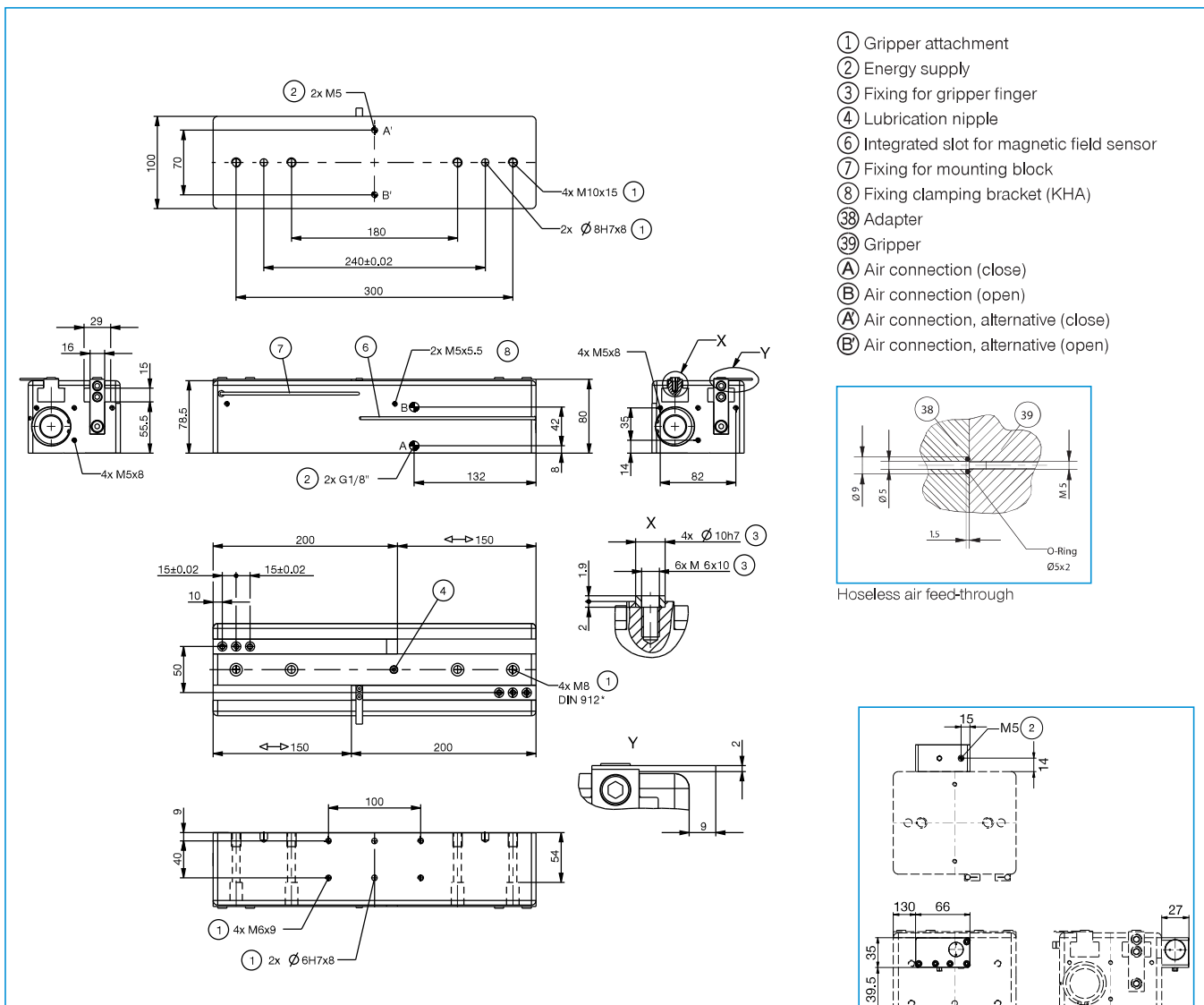


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH62150-B	GHK62150
Stroke per jaw [mm]	150	150
Gripping force in closing [N]	1400	1400
Gripping force in opening [N]	1100	1100
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,5	0,5
Opening time [s]	0,5	0,5
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	687	687
Weight [kg]	7,5	8

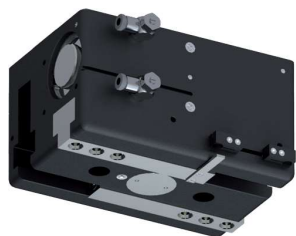
*All data measured at 6 bar
GHK series, see page 221



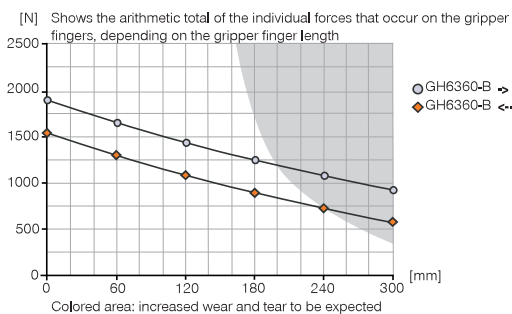
2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6360

Installation size GH6360 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

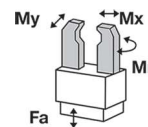


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	160
Mx [Nm]	190
My [Nm]	130
Fa [N]	3800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41600



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA6360-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



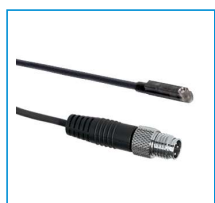
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



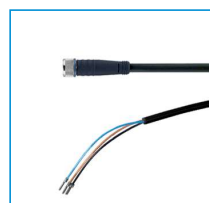
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAW500



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

KAG500

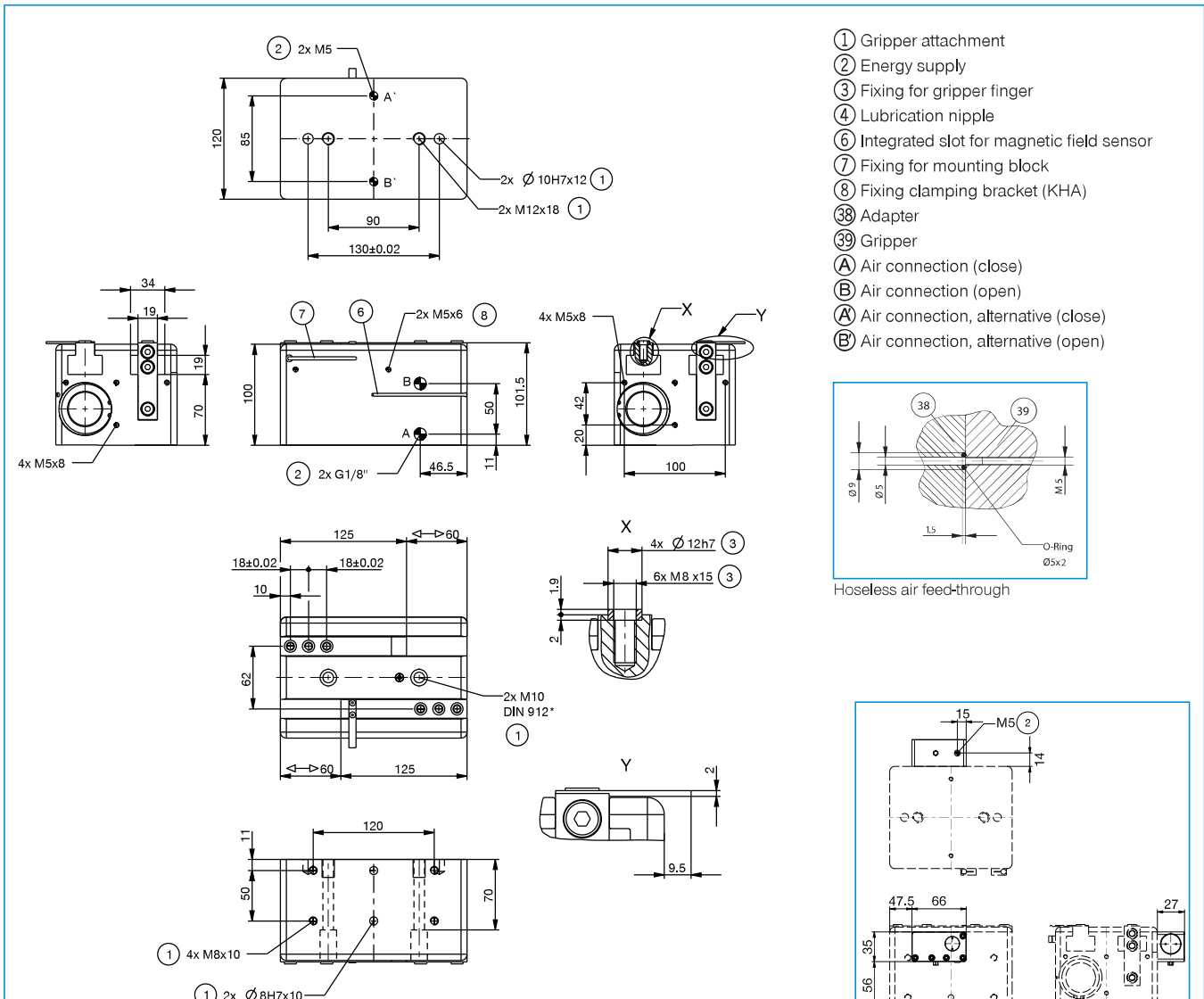


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*	
	GH6360-B	GHK6360
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	1840	1840
Gripping force in opening [N]	1520	1520
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,4	0,4
Opening time [s]	0,4	0,4
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	486	486
Weight [kg]	7	7,5

*All data measured at 6 bar
GHK series, see page 221

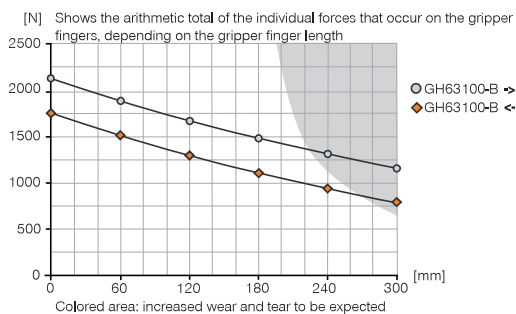


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH63100

▶ PRODUCT SPECIFICATIONS

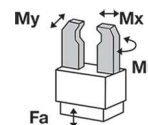


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	220
Mx [Nm]	260
My [Nm]	180
Fa [N]	3800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41600



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA63100-B-8



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



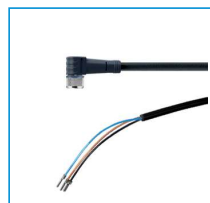
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



Pressure Safety Valve

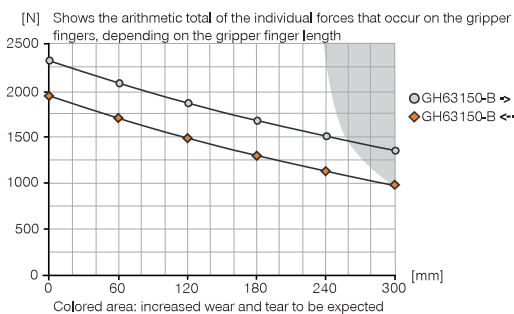
DSV1-8

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH63150

▶ PRODUCT SPECIFICATIONS

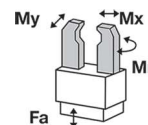


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	250
Mx [Nm]	290
My [Nm]	220
Fa [N]	3800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41600



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA63150-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



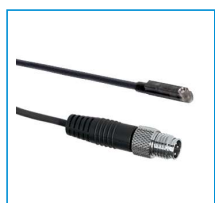
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



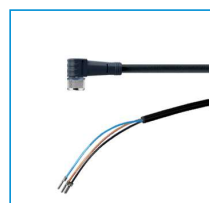
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

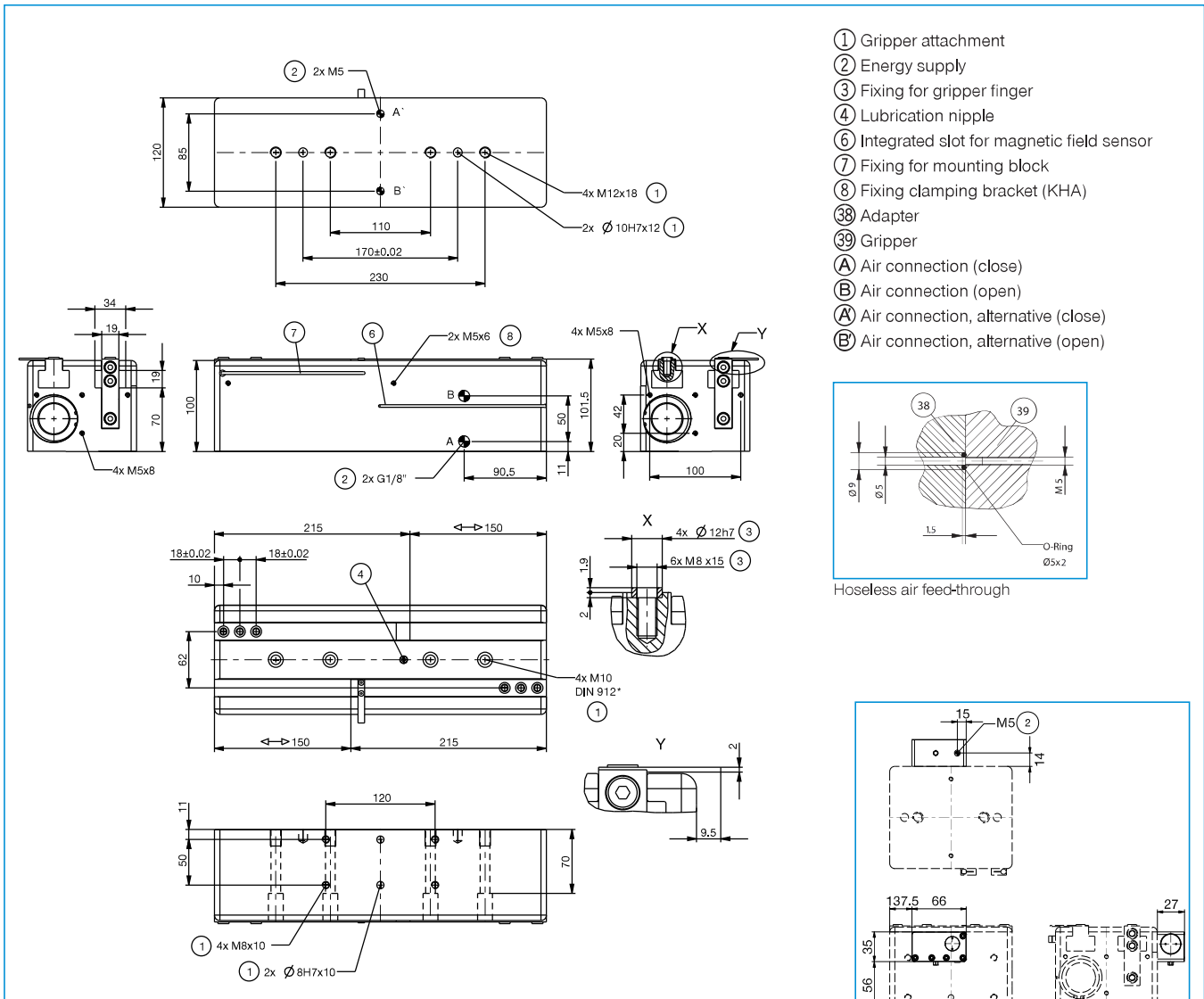


Pressure Safety Valve

DSV1-8

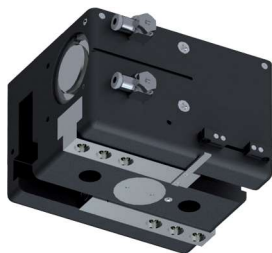
Order no.	▶ Technical Data*	
	GH63150-B	GHK63150
Stroke per jaw [mm]	150	150
Gripping force in closing [N]	2270	2270
Gripping force in opening [N]	1900	1900
Retention force in case of drop in pressure [N]		640
Closing time [s]	0,95	0,95
Opening time [s]	0,95	0,95
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1215	1215
Weight [kg]	10,5	11

*All data measured at 6 bar
GHK series, see page 221

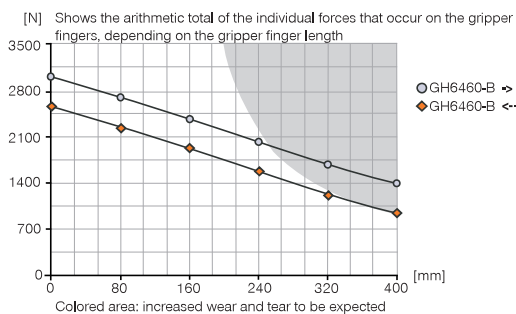


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6460

▶ PRODUCT SPECIFICATIONS

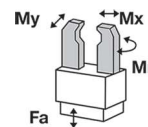


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	250
Mx [Nm]	300
My [Nm]	200
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA6460-B-8



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



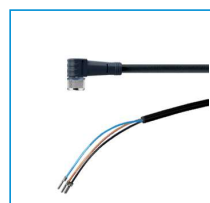
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

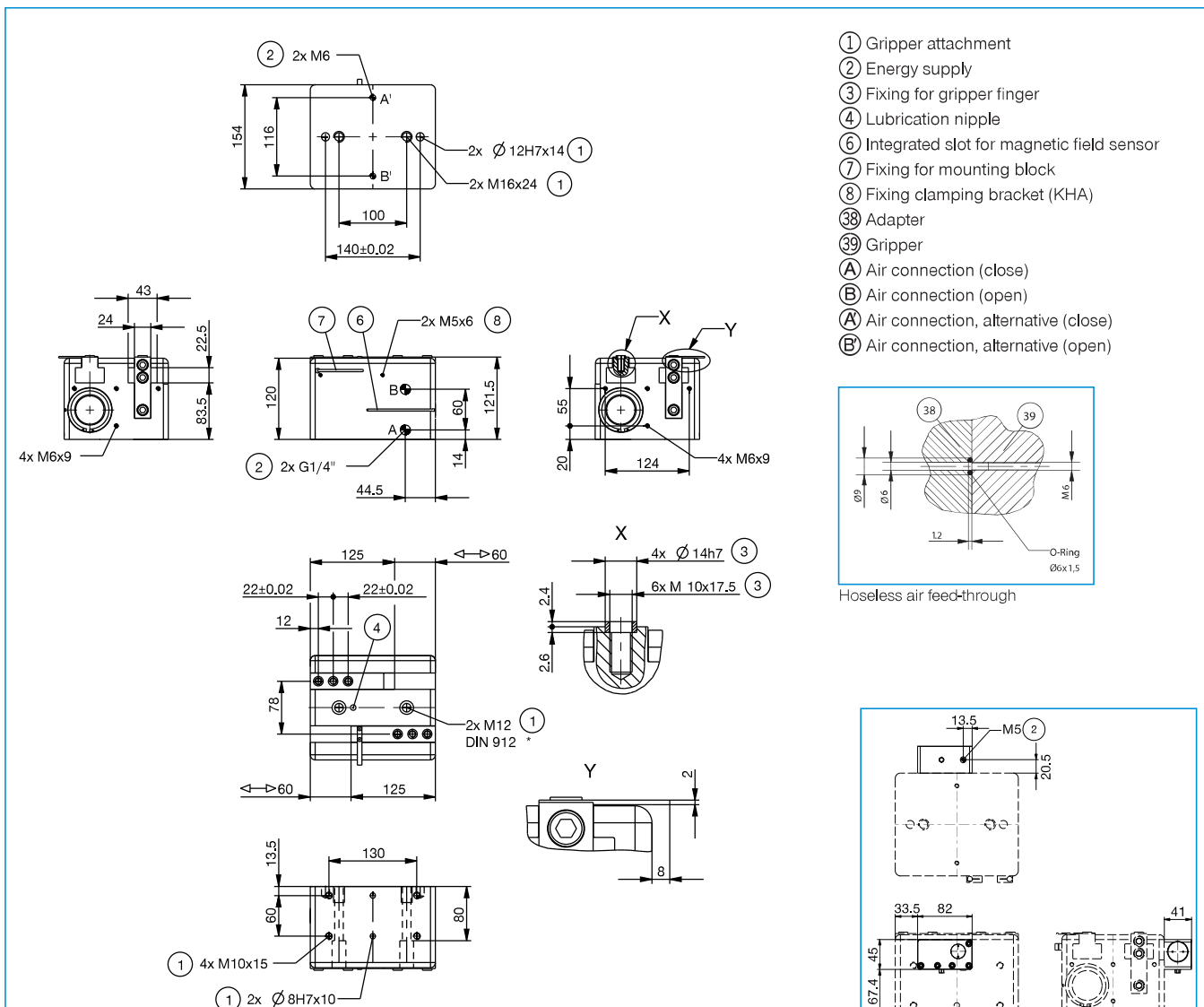


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*	
	GH6460-B	GHK6460
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	3000	3000
Gripping force in opening [N]	2600	2600
Retention force in case of drop in pressure [N]		1050
Closing time [s]	0,4	0,4
Opening time [s]	0,4	0,4
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	710	710
Weight [kg]	10,4	11,5

*All data measured at 6 bar
GHK series, see page 221

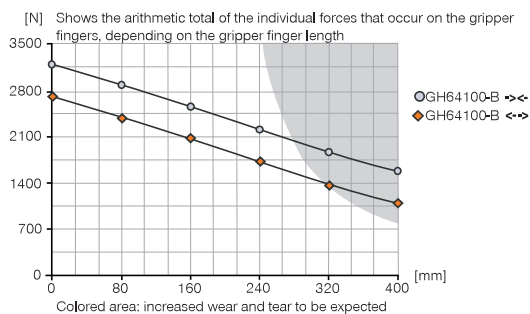


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH64100

▶ PRODUCT SPECIFICATIONS

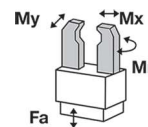


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	300
Mx [Nm]	350
My [Nm]	250
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA64100-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



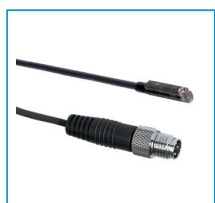
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



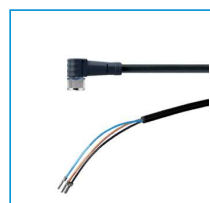
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

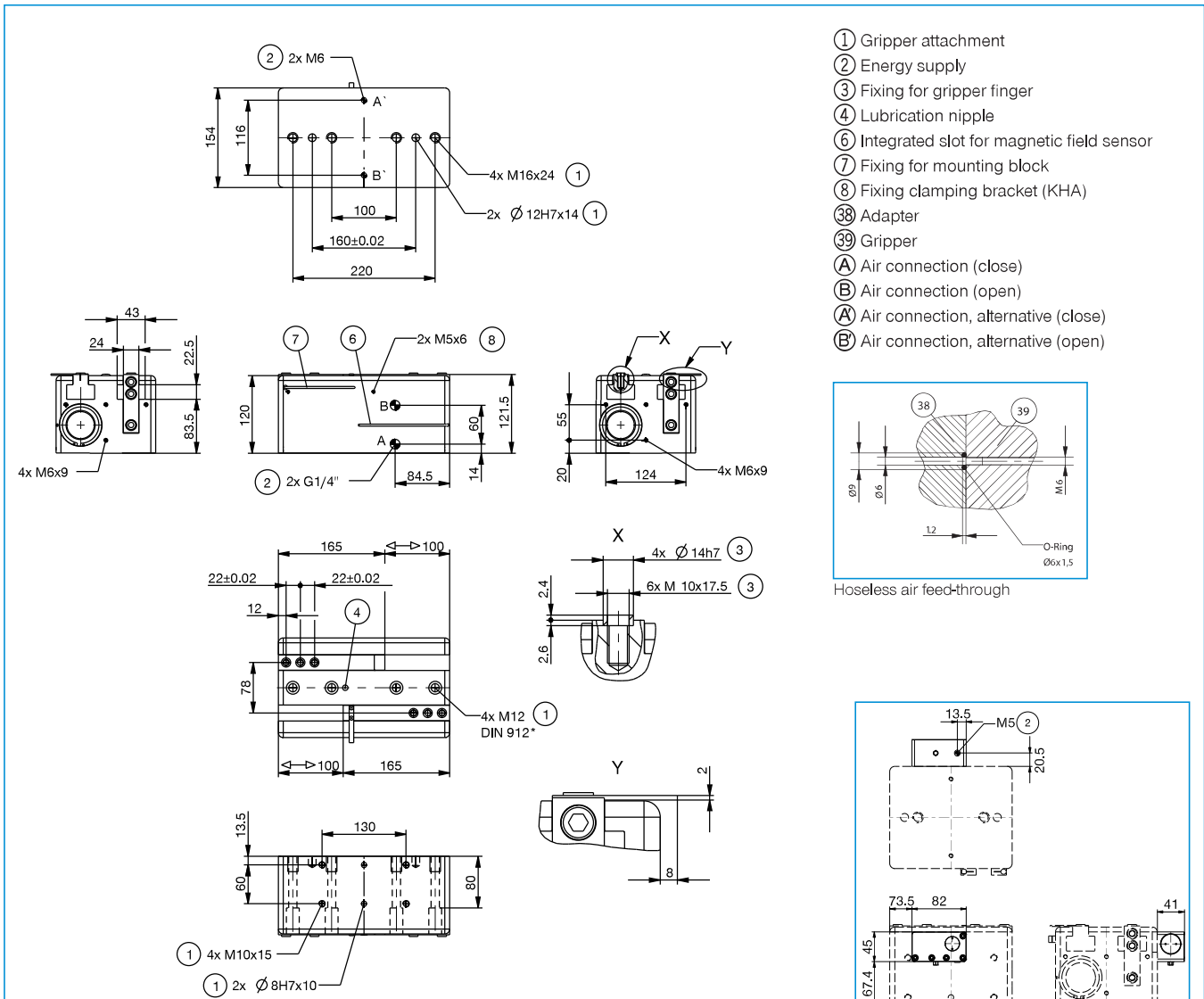


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	GH64100-B	GHK64100
Stroke per jaw [mm]	100	100
Gripping force in closing [N]	3200	3200
Gripping force in opening [N]	2700	2700
Retention force in case of drop in pressure [N]		1050
Closing time [s]	0.7	0.7
Opening time [s]	0.7	0.7
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1185	1185
Weight [kg]	13.7	14.8

*All data measured at 6 bar
GHK series, see page 221

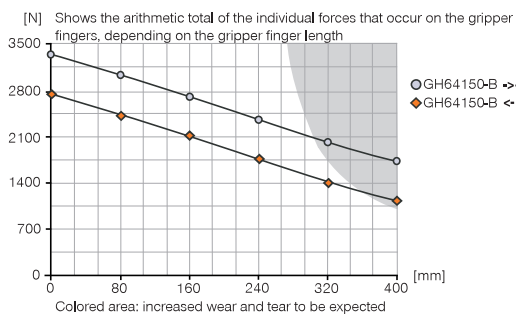


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH64150

▶ PRODUCT SPECIFICATIONS

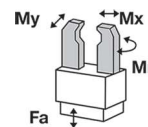


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	350
Mx [Nm]	400
My [Nm]	300
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA64150-B-8



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



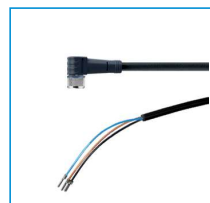
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500



Pressure Safety Valve

DSV1-8

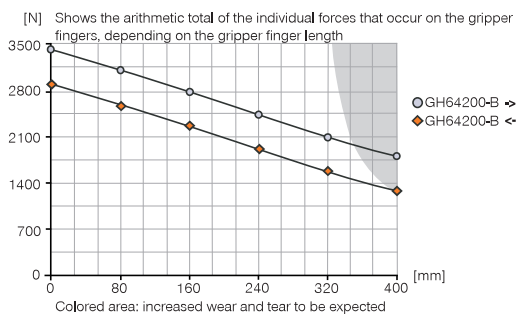
2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH64200

Installation size GH64200 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

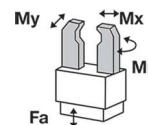


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	400
Mx [Nm]	450
My [Nm]	350
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA64200-B-8



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



Magnetic field sensor Straight Cable 5 m

MFS204KHC



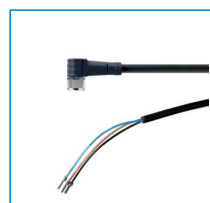
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



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

KAG500



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

KAW500

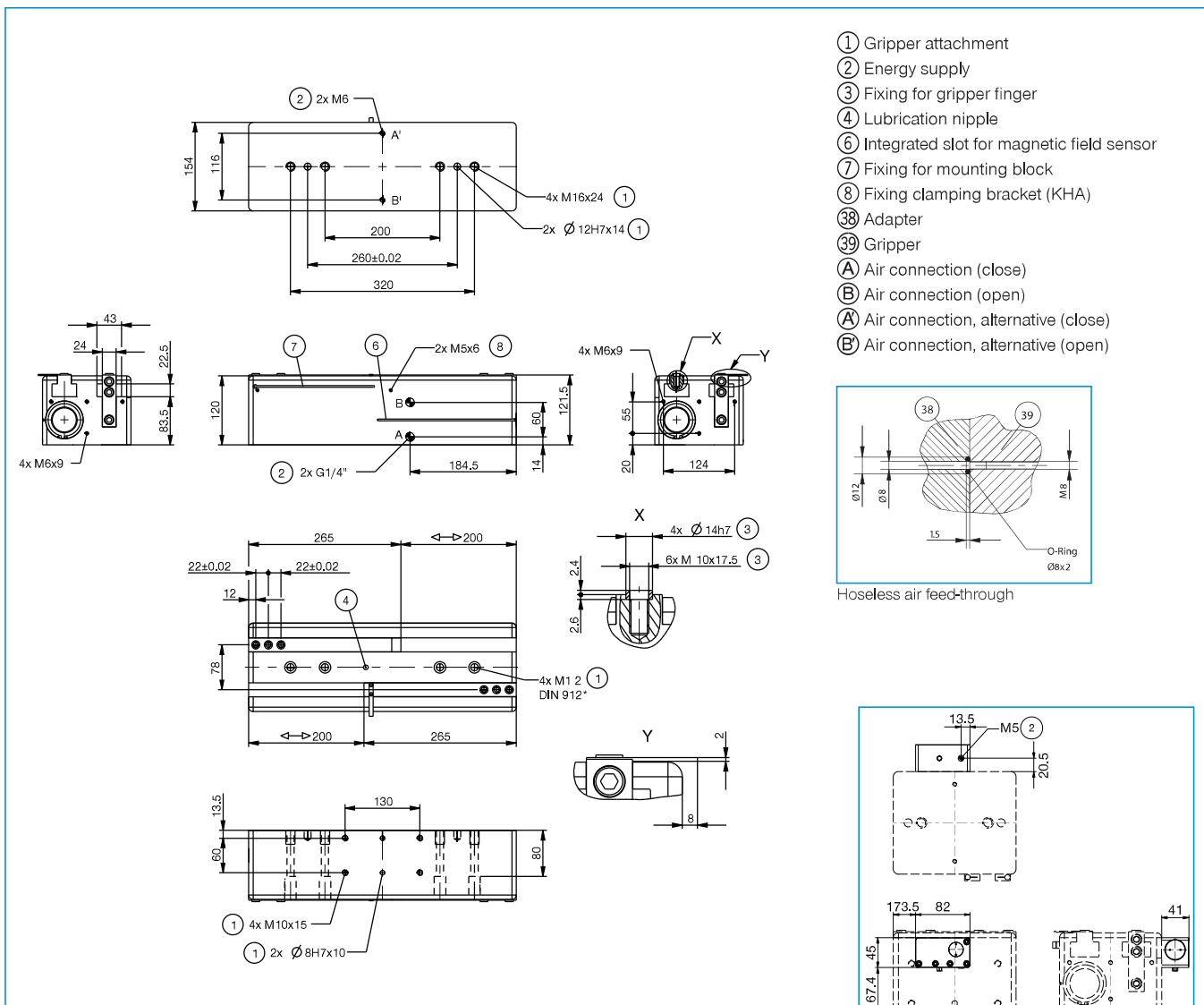


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	GH64200-B	GHK64200
Stroke per jaw [mm]	200	200
Gripping force in closing [N]	3400	3400
Gripping force in opening [N]	2900	2900
Retention force in case of drop in pressure [N]		1050
Closing time [s]	1.5	1.5
Opening time [s]	1.5	1.5
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	2370	2370
Weight [kg]	22.7	23.8

*All data measured at 6 bar
GHK series, see page 221



2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GHK6000

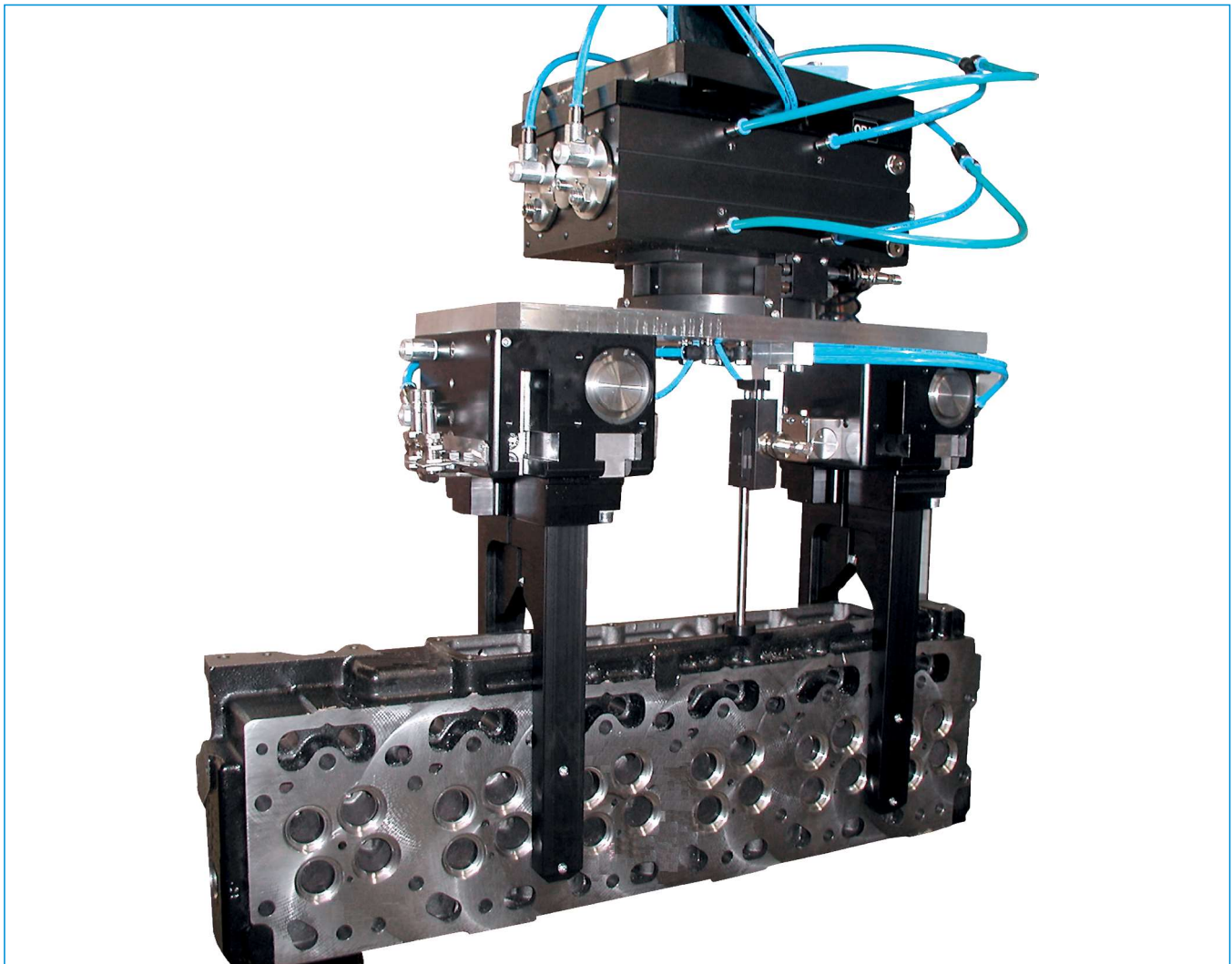
1

▶ PRODUCT ADVANTAGES



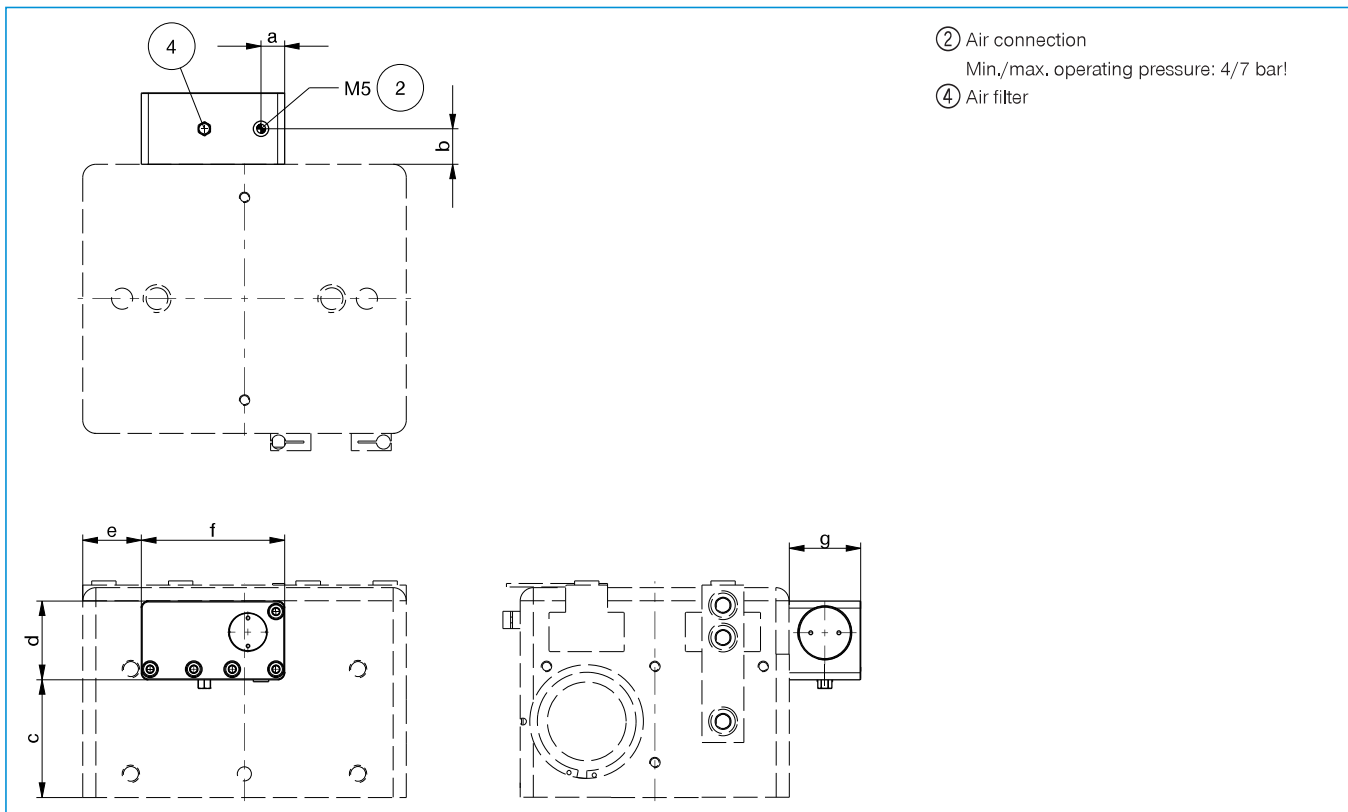
“The robust”

- ▶ Securing the workpiece in case of drop in pressure above clamping element on the condition of a positive gripper jaw design
- ▶ Dimensions based on GH6000 series standard gripper
- ▶ Long stroke, up to 200 mm per jaw
- ▶ Stable T-slot guide, guided completely along the entire length of the housing
- ▶ For gripper fingers with a length of up to 600 mm
- ▶ Compact design, through stacked cylinder and guide



► **Technical Data**

Order no.	Retention force in case of drop in pressure	A	B	C	D	E	F	G
	[N]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
GHK6140	300	9.6	11.5	21.7	25	17.5	58	22
GHK6160	300	9.6	11.5	21.7	25	37.5	58	22
GHK6180	300	9.6	11.5	21.7	25	37.5	58	22
GHK6240	640	15	14	39.5	35	20	66	27
GHK6260	640	15	14	39.5	35	40	66	27
GHK6280	640	15	14	39.5	35	60	66	27
GHK62100	640	15	14	39.5	35	80	66	27
GHK62150	640	15	14	39.5	35	130	66	27
GHK6360	640	15	14	56	35	47.5	66	27
GHK63100	640	15	14	56	35	87.5	66	27
GHK63150	640	15	14	56	35	137.5	66	27
GHK6460	1050	13.5	20.5	67.4	45	33.5	82	41
GHK64100	1050	13.5	20.5	67.4	45	73.5	82	41
GHK64150	1050	13.5	20.5	67.4	45	123.5	82	41
GHK64200	1050	13.5	20.5	67.4	45	173.5	82	41



2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GH7000

▶ PRODUCT ADVANTAGES



“The strong”

▶ High gripping force

The high gripping force allows you to handle the heaviest workpieces in your application reliably

▶ High moment load

The heavy-duty linear guide provides the highest possible durability for your application

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

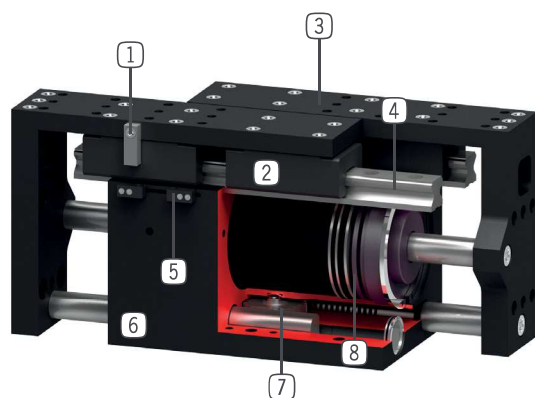
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Switch cam**
 - for position sensing
- ② **Carriage with wiper**
 - for use under extreme conditions
- ③ **Gripper jaw**
 - individual gripper finger mounting
- ④ **Precise linear guide**
 - ideal for highest transverse forces and loads
 - double secured against twisting
- ⑤ **Mounting block adjustable**
 - direct sensing of the gripper jaw position
- ⑥ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑦ **Synchronization**
 - via rack and pinion
- ⑧ **Drive**
 - two double-acting pneumatic cylinders

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	65 mm - 100 mm
Gripping force	8500 N - 8500 N
Weight	31 kg - 36 kg
AP class	3



10 million maintenance-free cycles (max.)



Inductive sensor



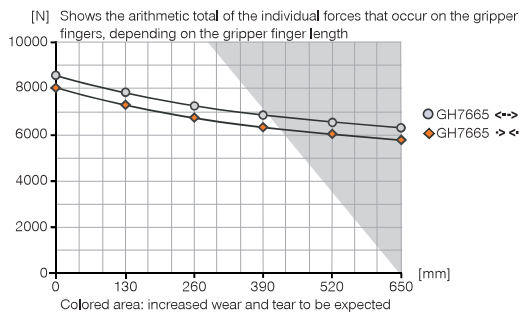
IP64

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH7665

▶ PRODUCT SPECIFICATIONS

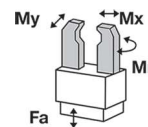


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2000
Mx [Nm]	2000
My [Nm]	1500
Fa [N]	4000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA7665-8



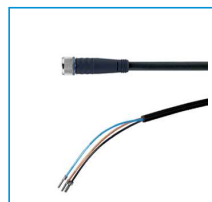
Inductive proximity switch - Cable 5 m

NJ8-E2



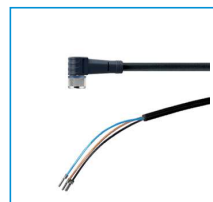
Inductive proximity switch - Connector M8

NJ8-E2S



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 customizable Straight - Connector M12

S12-G-3

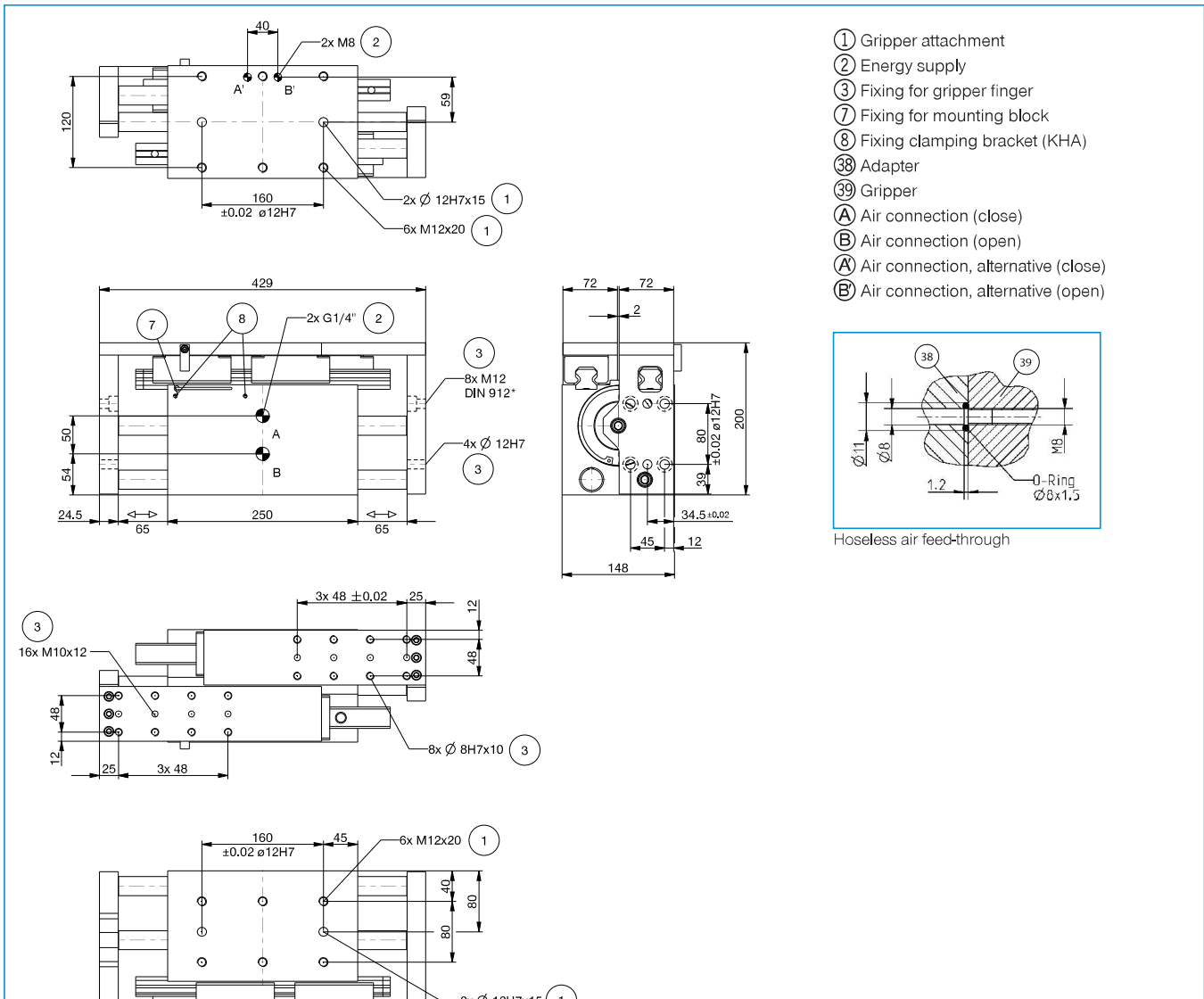


Pressure Safety Valve

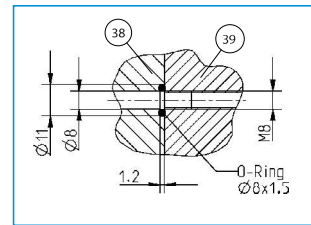
DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	65
Gripping force in closing [N]	8000
Gripping force in opening [N]	8500
Closing time [s]	1.1
Opening time [s]	1.1
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
Air volume per cycle [cm ³]	1985
Weight [kg]	31

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

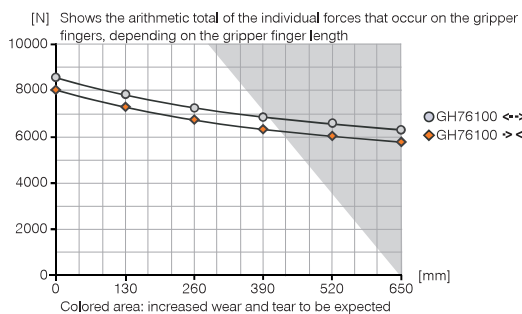
2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH76100

Installation size GH76100 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

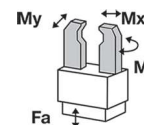


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2000
Mx [Nm]	2000
My [Nm]	1500
Fa [N]	4000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA76100-8



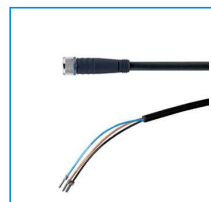
Inductive proximity switch - Cable 5 m

NJ8-E2



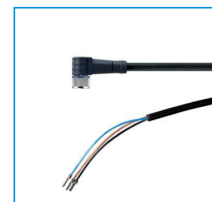
Inductive proximity switch - Connector M8

NJ8-E2S



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 customizable Straight - Connector M12

S12-G-3

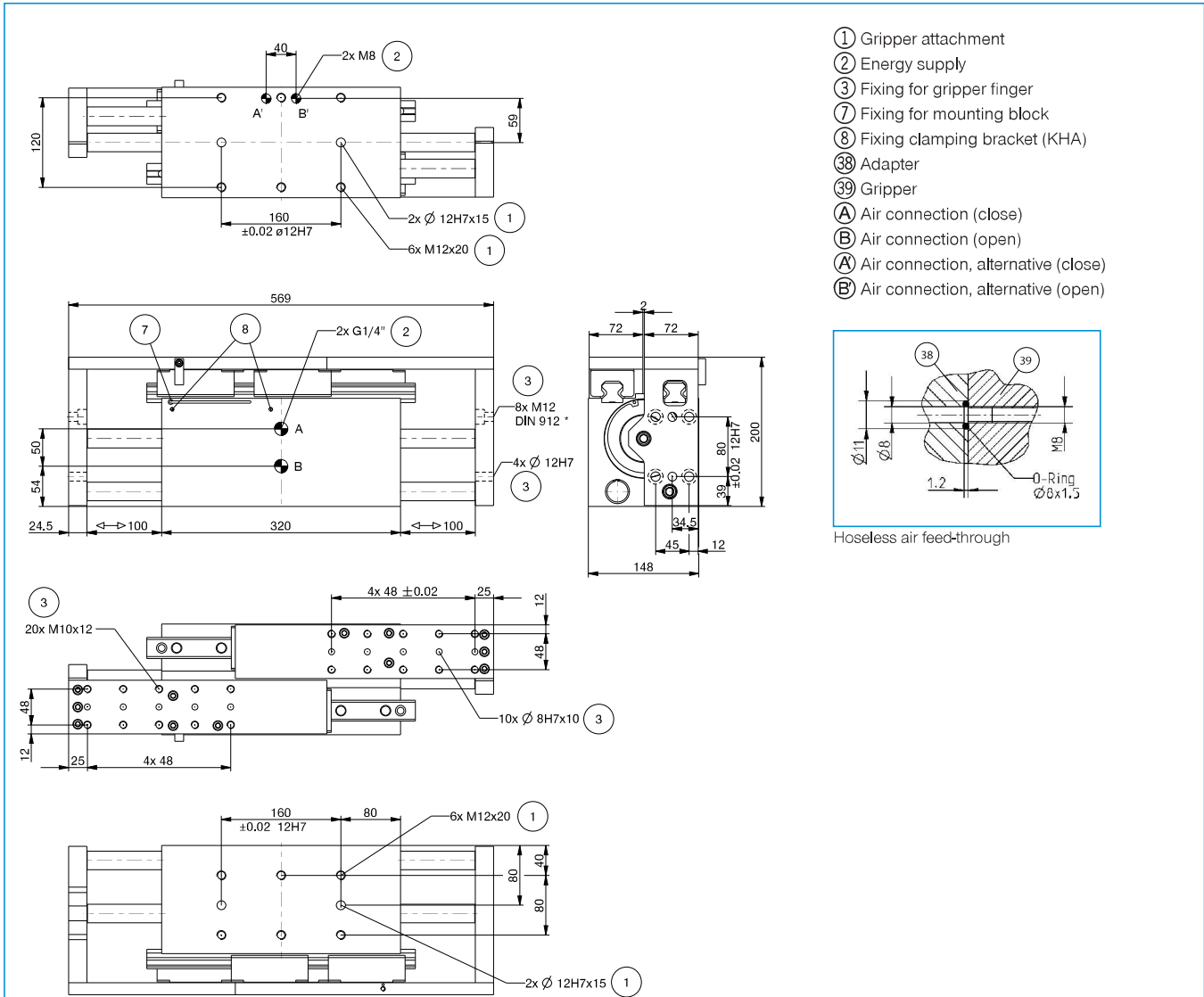


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	100
Gripping force in closing [N]	8000
Gripping force in opening [N]	8500
Closing time [s]	1.5
Opening time [s]	1.5
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
Air volume per cycle [cm³]	3040
Weight [kg]	36

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS WITH LONG STROKE

OVERVIEW OF SERIES



▶ ELECTRICAL



Series GEH6000IL

230



Series GEH8000

240

2-JAW PARALLEL GRIPPERS

SERIES GEH6000IL

▶ PRODUCT ADVANTAGES



IO-Link

“Highest performance”

- ▶ **5 million maintenance-free cycles**
- ▶ **Integrated sensing via IO-Link**
- ▶ **Self locking mechanism**
- ▶ **The highest power density on the market**

A superior proportion of gripping force to mass, volume and price enables you to have the maximum level of process reliability and cost optimization in the smallest amount of space

- ▶ **Servo drive with integrated controller**

Brushless drive technology, position, speed and force control in combination with a self locking mechanism guarantee the highest amount of functionality

- ▶ **IO-Link on board**

In addition to the unshielded single-cable solution, the future-proof, hot-pluggable activation provides you with a wide variety of travel profiles for easy implementation into your 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:

Find the best product for your specific use:

www.zimmer-group.com

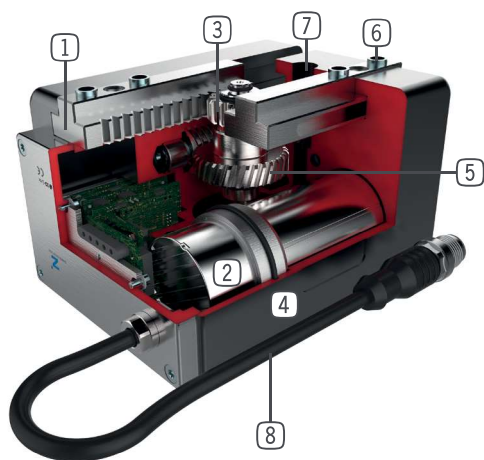
HOW TO ORDER CORRECTLY

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

Order no.	GEH6060	<input type="checkbox"/>	<input type="checkbox"/>	-A
IO-Link control		IL		
Positionable			03	



► BENEFITS IN DETAIL



- 1 Precise T-Slot guide**
 - high forces and moments capacity
- 2 Drive**
 - Brushless DC servomotor
- 3 Rack and pinion gear**
 - synchronized the movement of the gripper jaws
 - high force transfer
- 4 Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 5 Helical gear - worm gear**
 - self locking mechanism in case of power drop
- 6 Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- 7 Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 8 Energy supply**
 - standardized connector

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw, adjustable	up to 80 mm
Gripping force, adjustable	60 N - 2400 N
Weight	0,76 kg - 2,6 kg
AP class	3



5 million maintenance-free cycles (max.)



Integrated sensing



IP40 / IP54



Self locking mechanism

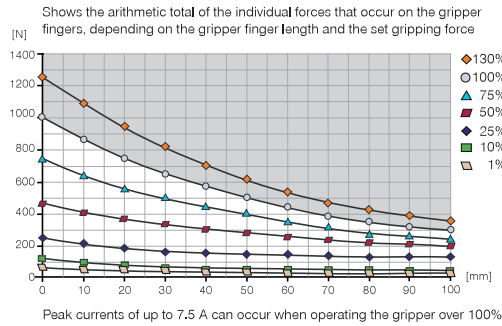
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEH6060IL

▶ PRODUCT SPECIFICATIONS

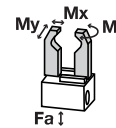


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	35
My [Nm]	35
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



IO-Link

Plug-in connector straight
5m - plug / socket M12

KAG500IL



IO-Link

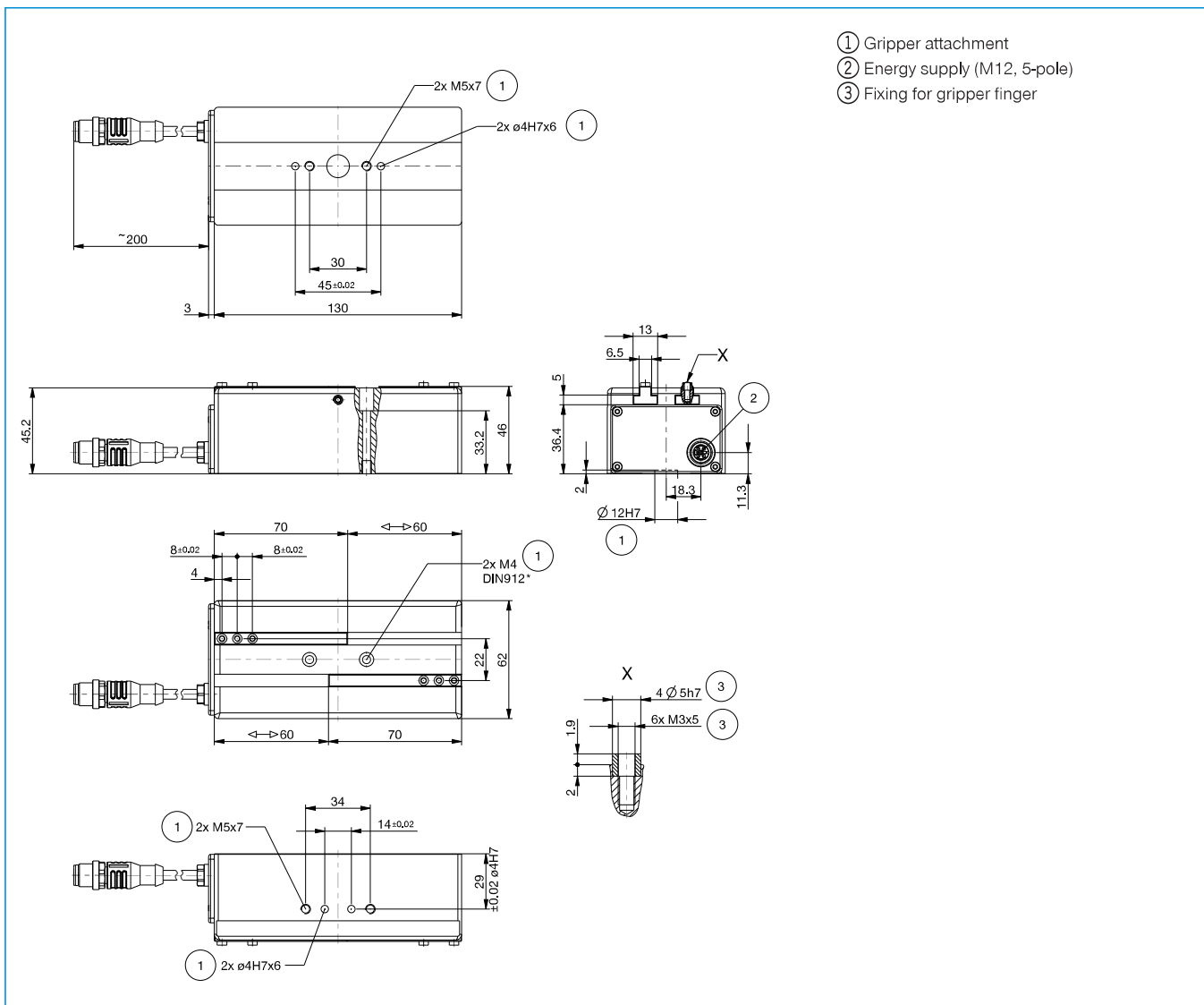
Y-Plug-in Connector

B12-Y-5IL

Order no.	Technical Data
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	60
Nominal gripping force [N]*	1000
Gripping force min. [N]	60
Gripping force max. [N]**	1250
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	0.3
Length of the gripper fingers max. [mm]	100
Max. movement speed per gripper finger [mm/s]	60
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP40
Weight [kg]	0.9

*Max. peak current ≤ 5 A

**Max. peak current ≤ 7.5 A



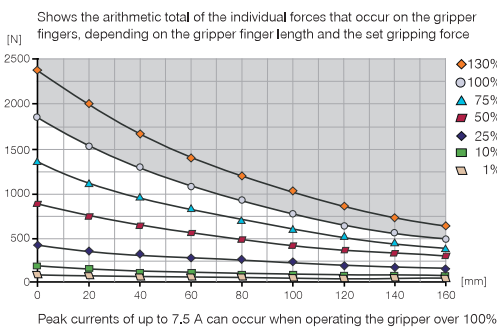
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEH6140IL

▶ PRODUCT SPECIFICATIONS

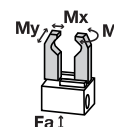


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	70
Mx [Nm]	80
My [Nm]	60
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Centering Disc

DST70000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Plug-in connector straight
5m - plug / socket M12

KAG500IL



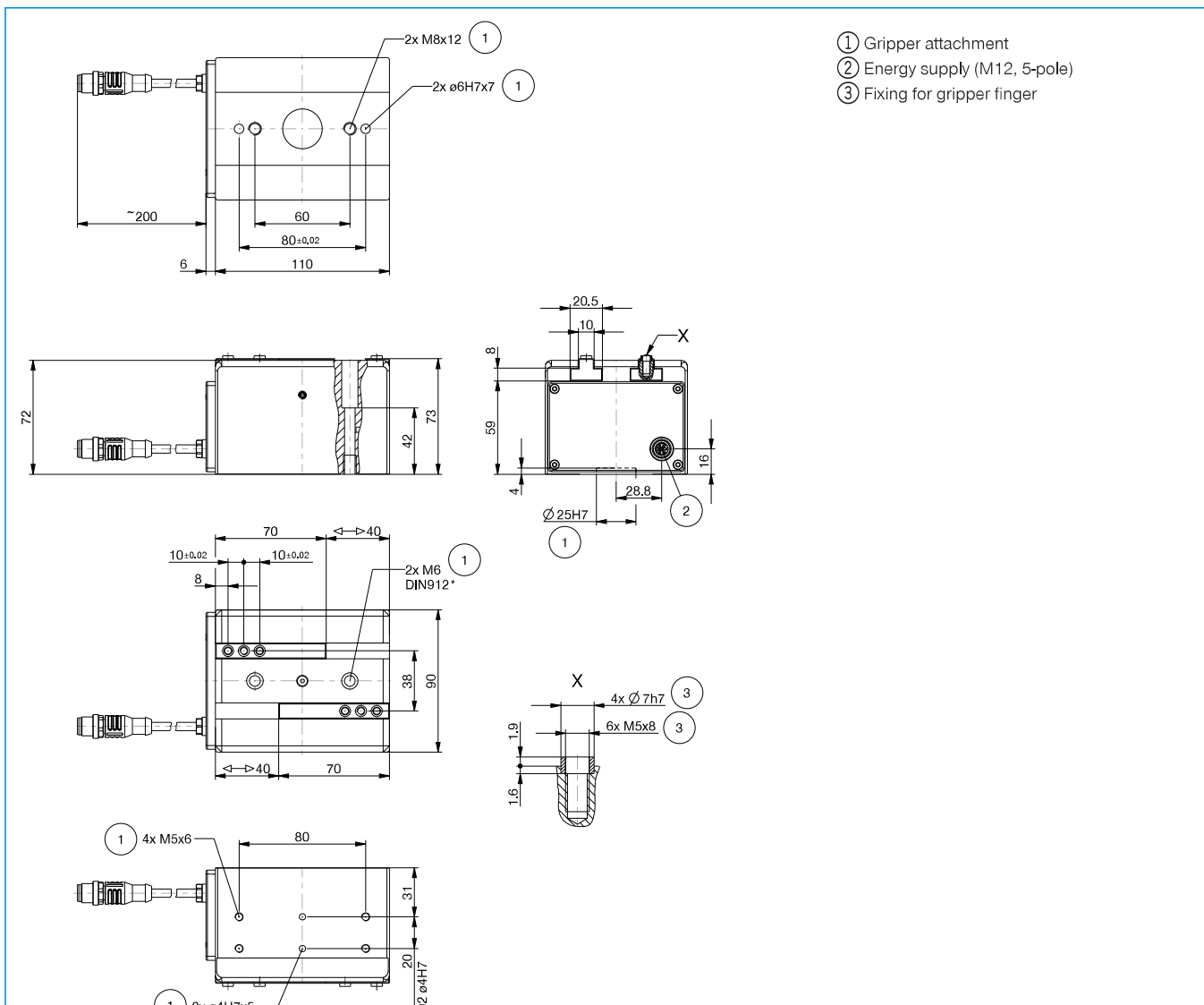
Y-Plug-in Connector

B12-Y-5IL

Order no.	Technical Data
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	40
Nominal gripping force [N]*	1800
Gripping force min. [N]	100
Gripping force max. [N]**	2400
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	1
Length of the gripper fingers max. [mm]	160
Max. movement speed per gripper finger [mm/s]	50
Repetition accuracy +/- [mm]	0,05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP54
Weight [kg]	1,9

*Max. peak current ≤ 5 A

**Max. peak current ≤ 7.5 A



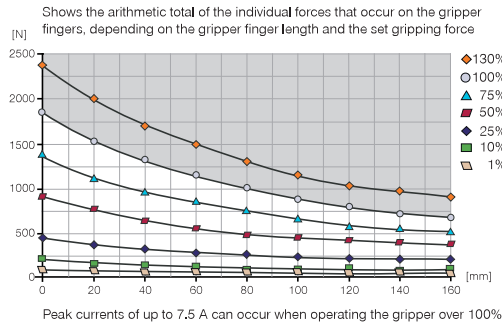
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEH6180IL

▶ PRODUCT SPECIFICATIONS

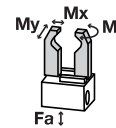


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	140
My [Nm]	90
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Centering Disc

DST70000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Plug-in connector straight
5m - plug / socket M12

KAG500IL



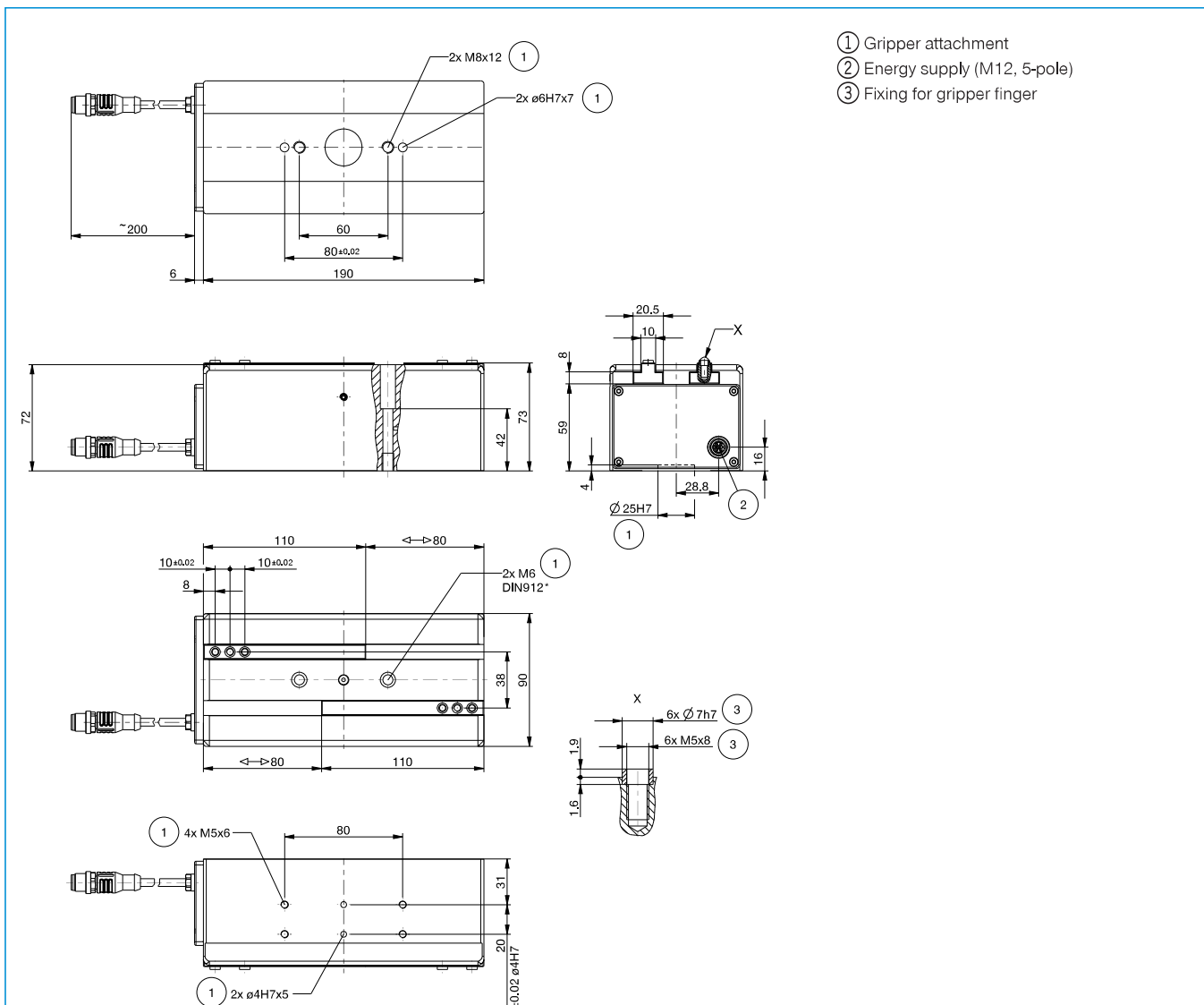
Y-Plug-in Connector

B12-Y-5IL

Order no.	Technical Data
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	80
Nominal gripping force [N]*	1800
Gripping force min. [N]	100
Gripping force max. [N]**	2400
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	1
Length of the gripper fingers max. [mm]	160
Max. movement speed per gripper finger [mm/s]	50
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP54
Weight [kg]	2.6

*Max. peak current ≤ 5 A

**Max. peak current ≤ 7.5 A



2-JAW PARALLEL GRIPPERS

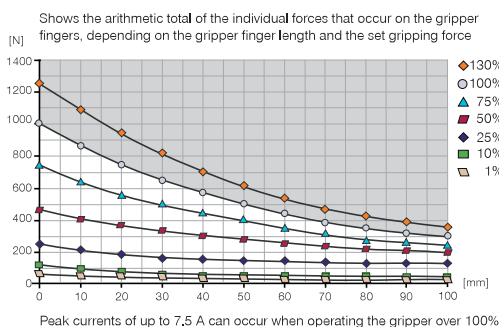
INSTALLATION SIZE GEH6040IL

COMING SOON

▶ PRODUCT SPECIFICATIONS

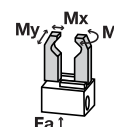


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	25
Mx [Nm]	25
My [Nm]	25
Fa [N]	500

▶ TECHNICAL DATA

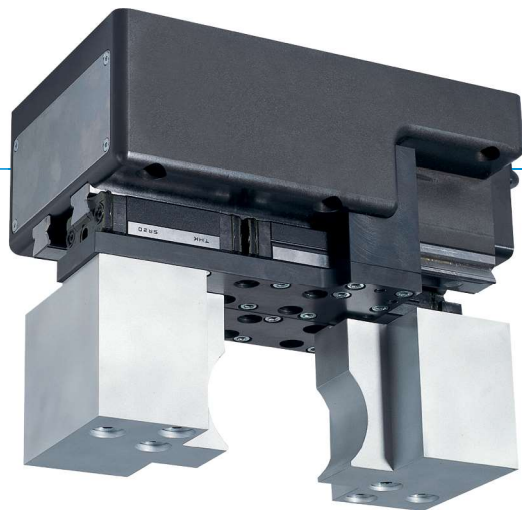
Order no.	Technical Data
	GEH6040IL-03-A
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	40
Nominal gripping force [N]*	1000
Gripping force min. [N]	60
Gripping force max. [N]**	1250
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	0,3
Length of the gripper fingers max. [mm]	100
Max. movement speed per gripper finger [mm/s]	60
Repetition accuracy +/- [mm]	0,05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP40
Weight [kg]	0,76

*Max. peak current ≤ 5 A

**Max. peak current ≤ 7.5 A

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

▶ PRODUCT ADVANTAGES



“The strong”

▶ High gripping force

Using the high gripping force, you can safely handle even the heaviest workpieces

▶ Servo drive

Position, speed and force control in combination with a mechanical self locking mechanism guarantee the highest functionality

▶ Multibus

How you stay flexible: PROFIBUS, SERCOS III, PROF-INET IO, EtherNet/IP or EtherCat - You decide what harmonises best with your system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

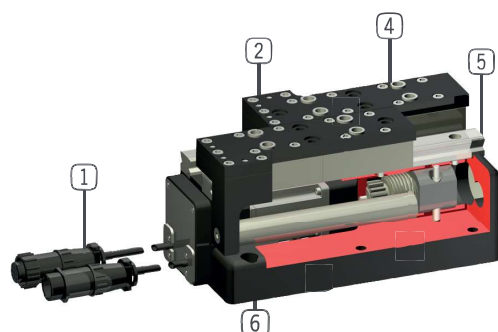
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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► BENEFITS IN DETAIL



- ① **Energy supply**
 - motor cable, female
 - encoder cable, male
- ② **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ③ **Drive**
 - AC servo motor
- ④ **Gripper jaw**
 - hardened steel
 - individual gripper finger mounting
- ⑤ **Precise linear guide**
 - high forces and moments capacity
 - guide wagon with wiper for harsh environments
- ⑥ **Mounting and positioning**
- ⑦ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑧ **Synchronization**
 - via rack and pinion

► SERIES CHARACTERISTICS



Number of installation sizes	1
Stroke per jaw	max. 60mm
Holding force	max. 3200N
Weight	10kg
AP class	3



10 million maintenance-free cycles (max.)



Integrated sensing



IP54



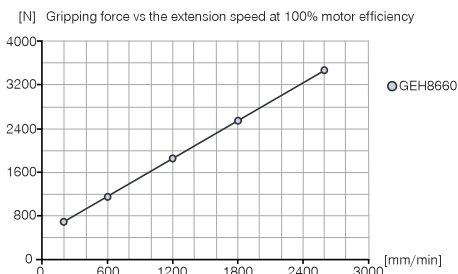
Self locking mechanism

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

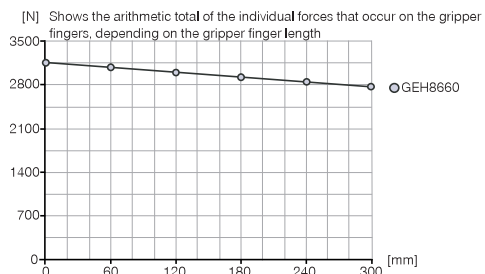
▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram



▶ Gripping force diagram



▶ INCLUDED IN DELIVERY



Commissioning USB

052650

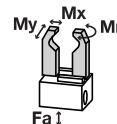


Centering Disc

DST41600

▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr	220
Mx	220
My	950

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SER-COS III, PROFINET IO, EtherNet/IP, EtherCAT

ZUBHCSME



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



Power cable 10 m

ZUBHCSKAL10



Power cable 25 m

ZUBHCSKAL25



Encoder cable 5 m

ZUBHCSKAG05



Encoder cable 10 m

ZUBHCSKAG10



Encoder cable 25 m

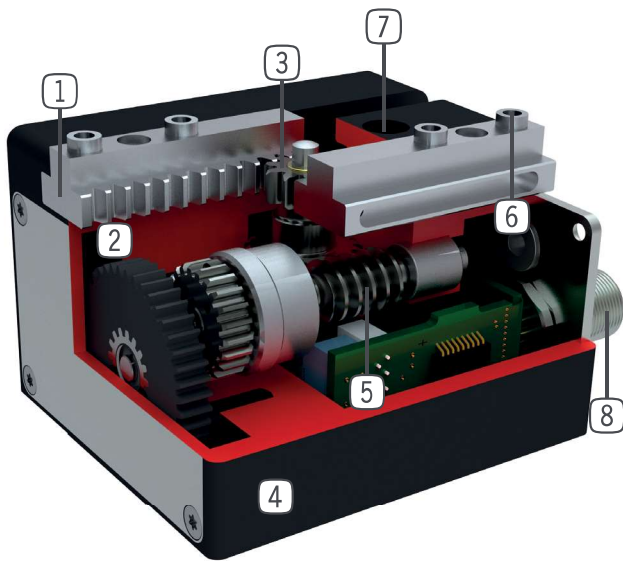
ZUBHCSKAG25

2-JAW PARALLEL GRIPPERS

SERIES GEH6000

still available

▶ BENEFITS IN DETAIL



- 1 **Precise T-Slot guide**
 - high forces and moments capacity
- 2 **Drive**
 - DC-Motor with encoder
- 3 **Rack and pinion gear**
 - synchronized the movement of the gripper jaws
 - high force transfer
- 4 **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 5 **Helical gear - worm gear**
 - self locking mechanism in case of power drop
- 6 **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- 7 **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 8 **Energy supply**
 - standardized connector

▶ TECHNICAL DATA *



Number of installation sizes	2
Stroke per jaw	30 mm - 80 mm
Holding force	1000 N - 2000 N
Weight	0,7 kg - 2,6 kg

*further information is available online

▶ FOR NEW DESIGNS, USE THE SUCCESSOR SERIES, THE GEH6000IL



"Highest performance"

- ▶ 5 million maintenance-free cycles
- ▶ Integrated sensing via IO-Link
- ▶ Self locking mechanism
- ▶ The highest power density on the market

A superior proportion of gripping force to mass, volume and price enables you to have the maximum level of process reliability and cost optimization in the smallest amount of space

- ▶ Servo drive with integrated controller

Brushless drive technology, position, speed and force control in combination with a self locking mechanism guarantee the highest amount of functionality

- ▶ IO-Link on board

In addition to the unshielded single-cable solution, the future-proof, hot-pluggable activation provides you with a wide variety of travel profiles for easy implementation into your control system