

2-JAW RADIAL GRIPPER

SERIES GG4000

1

Series GG4000 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The sealed”

▶ Suitable for use under extreme conditions

The sealed rotation axis guarantees process reliability even under the harshest conditions

▶ Smooth stroke configuration

You can adjust the 180° opening angle to be unique to your application using an adjusting screw

▶ 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.	GG4032	<input type="checkbox"/>	C	
Stroke per jaw 90°		N		
Stroke per jaw 20°		S		



► BENEFITS IN DETAIL



- ① **Stroke adjustment screw**
- Infinitely adjustable opening stroke
- ② **Removable centering sleeves**
- individual gripper finger mounting
- ③ **Robust, lightweight housing**
- hard coated aluminium alloy
- ④ **Sensing slot**
- mounting and positioning of magnetic field sensors
- ⑤ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ⑥ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑦ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ⑧ **Mounting block**
- mounting for inductive proximity switch
- ⑨ **Sealed rotation point**
- for use under extreme conditions

► SERIES CHARACTERISTICS



Number of installation sizes	6
Stroke per jaw	90°
Gripping moment	7 Nm - 156 Nm
Weight	0,25 kg - 4,5 kg
AP class	3



10 million maintenance-free cycles (max.)



Spring closing C



High-strength S



Inductive sensor



IP64



Magnetic field sensor



Purged air

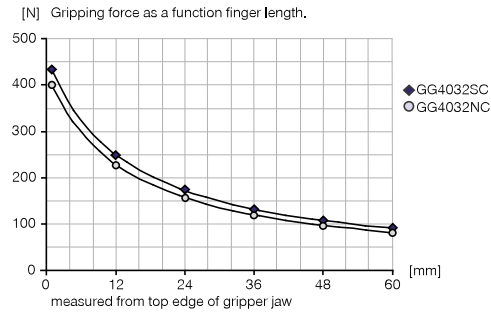
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4032

▶ PRODUCT SPECIFICATIONS

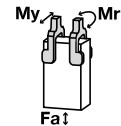


▶ Gripping force diagram



▶ Forces and moments

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



Mr [Nm]	8,5
My [Nm]	8,5
Fa [N]	180

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600



Stroke adjustment screw

HES0014

▶ RECOMMENDED ACCESSORIES



Mounting block

KB4-06



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



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



Inductive proximity switch
- Cable 5 m
NJ4-E2



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



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

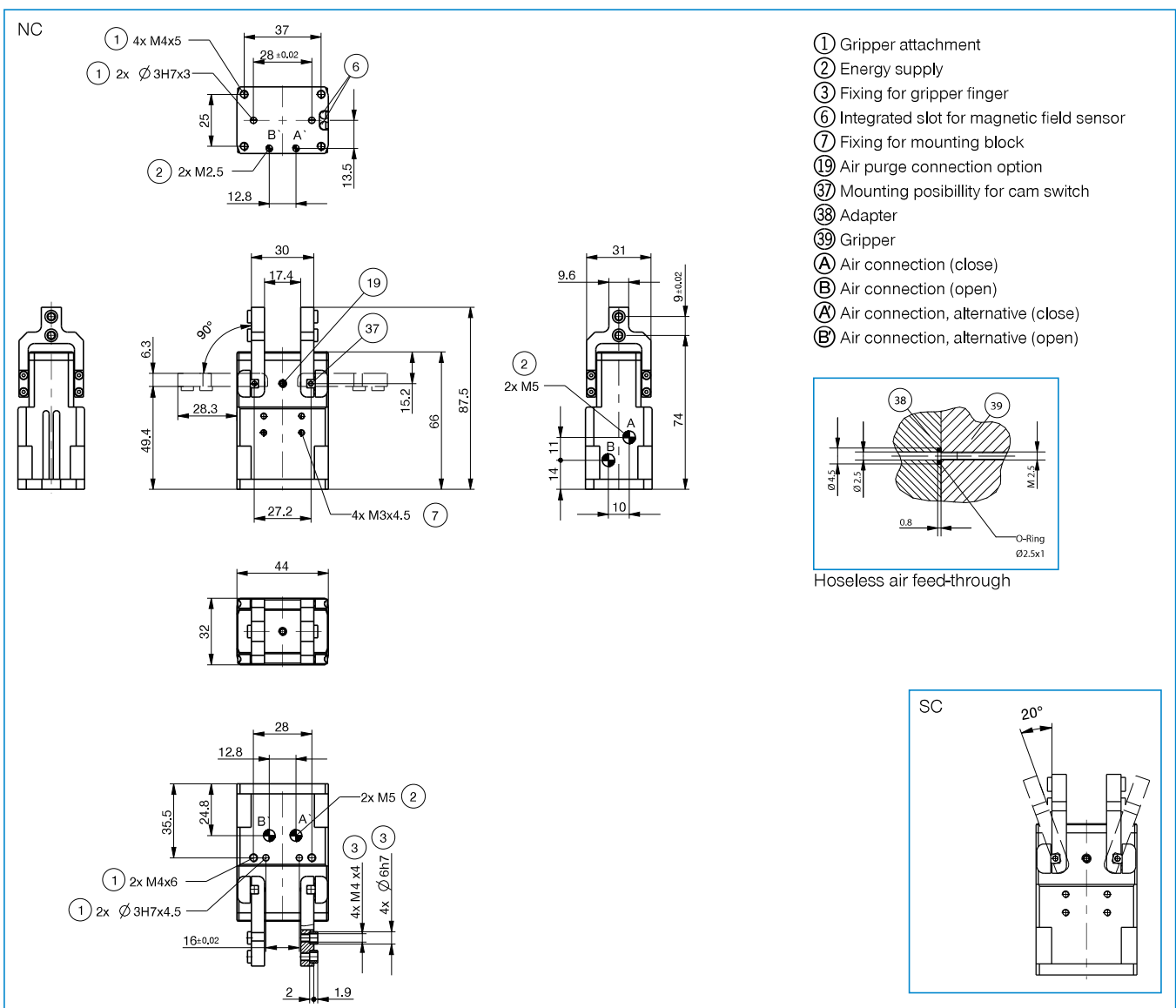


Plug-in connector customiz-
able Straight - Connector M8
S8-G-3

► Technical Data*

Order no.	GG4032NC	GG4032SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	6.5	7
Gripping force in closing [N]	430	460
Gripping moment secured by spring min. [Nm]	1	1.5
Length of the gripper fingers max. [mm]	65	65
Weight per jaw max. [g]	55	55
Closing time [s]	0.055	0.02
Opening time [s]	0.08	0.03
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	80	80
Air volume per cycle [cm³]	13	10
Weight [kg]	0.25	0.25

*All data measured at 6 bar



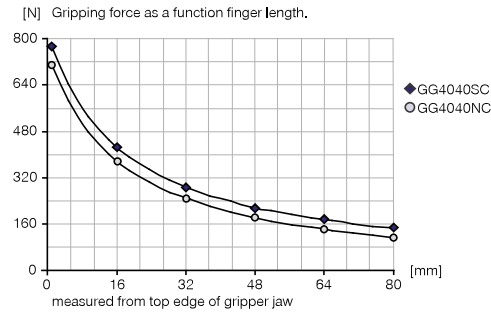
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4040

▶ PRODUCT SPECIFICATIONS

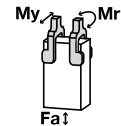


▶ Gripping force diagram



▶ Forces and moments

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



Mr [Nm]	19
My [Nm]	19
Fa [N]	180

▶ INCLUDED IN DELIVERY



Centering Disc

BDST40800



Stroke adjustment screw

HES0015

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-48



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



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



Inductive proximity switch
- Connector M8

NJ8-E2S



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

KAW500



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

KAG500



Plug-in connector customizable
Straight - Connector M8

S8-G-3

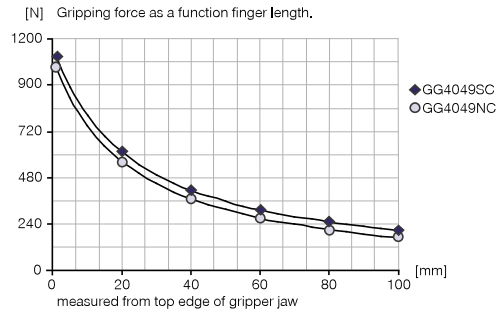
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4049

▶ PRODUCT SPECIFICATIONS

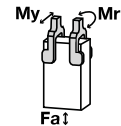


▶ Gripping force diagram



▶ Forces and moments

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



Mr [Nm]	22
My [Nm]	22
Fa [N]	475

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000



Stroke adjustment screw

HES0016

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



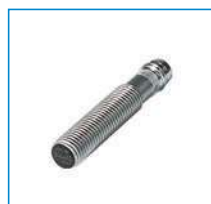
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



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



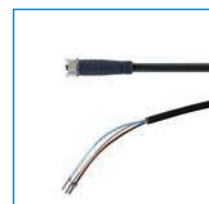
2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC



Inductive proximity switch
- Connector M8
NJ8-E2S



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



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

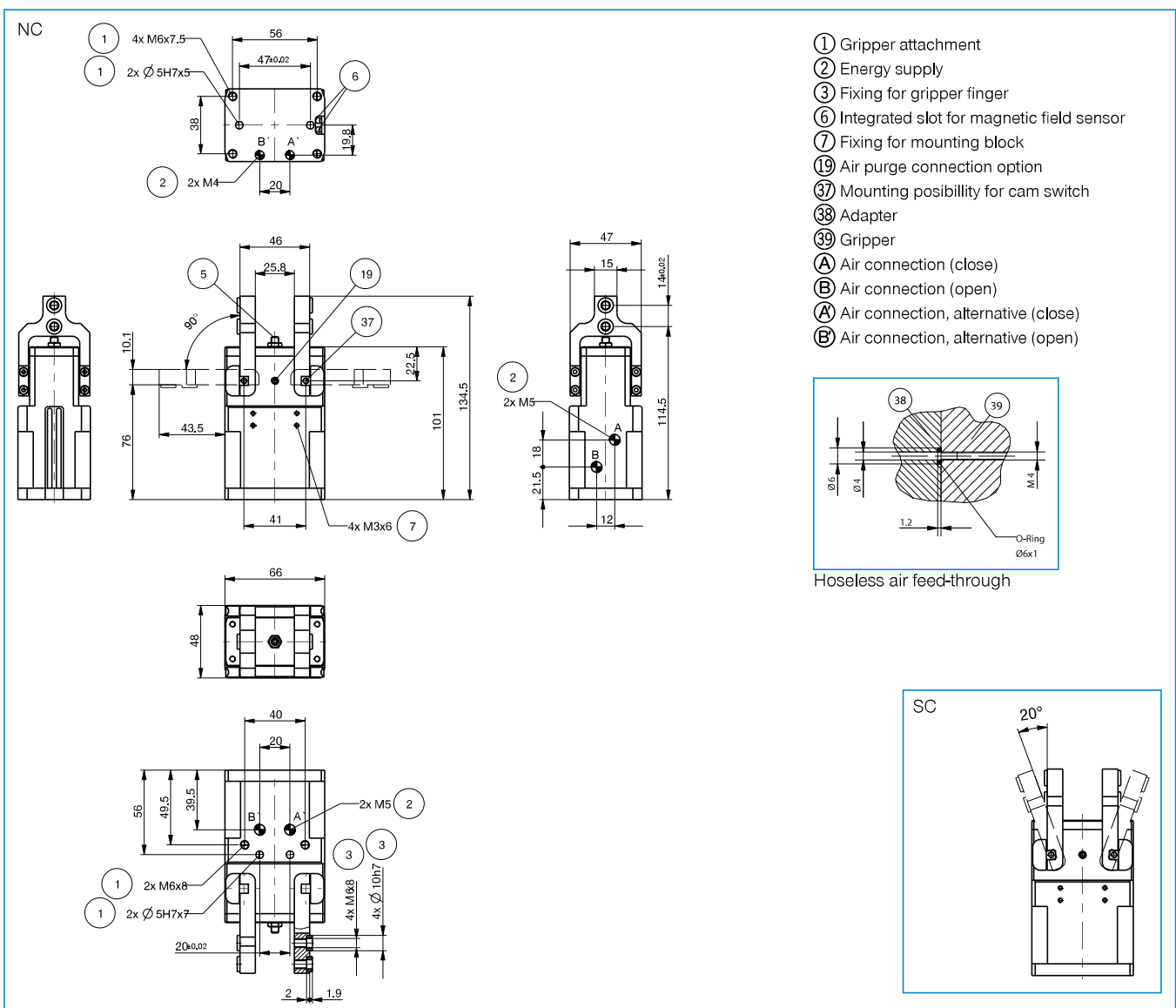


Plug-in connector customizable
Straight - Connector M8
S8-G-3

► Technical Data*

Order no.	GG4049NC	GG4049SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	23	26
Gripping force in closing [N]	1000	1150
Gripping moment secured by spring min. [Nm]	4.2	7.2
Length of the gripper fingers max. [mm]	100	100
Weight per jaw max. [g]	200	200
Closing time [s]	0.11	0.05
Opening time [s]	0.17	0.09
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	80	80
Air volume per cycle [cm³]	44	33
Weight [kg]	0,85	0,85

*All data measured at 6 bar



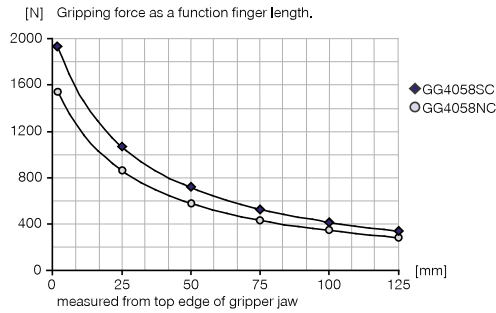
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4058

▶ PRODUCT SPECIFICATIONS

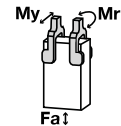


▶ Gripping force diagram



▶ Forces and moments

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



Mr [Nm]	33
My [Nm]	33
Fa [N]	720

▶ INCLUDED IN DELIVERY



Centering Disc

DST11500



Stroke adjustment screw

HES0017

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



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



Inductive proximity switch
- Connector M8
NJ8-E2S



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



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

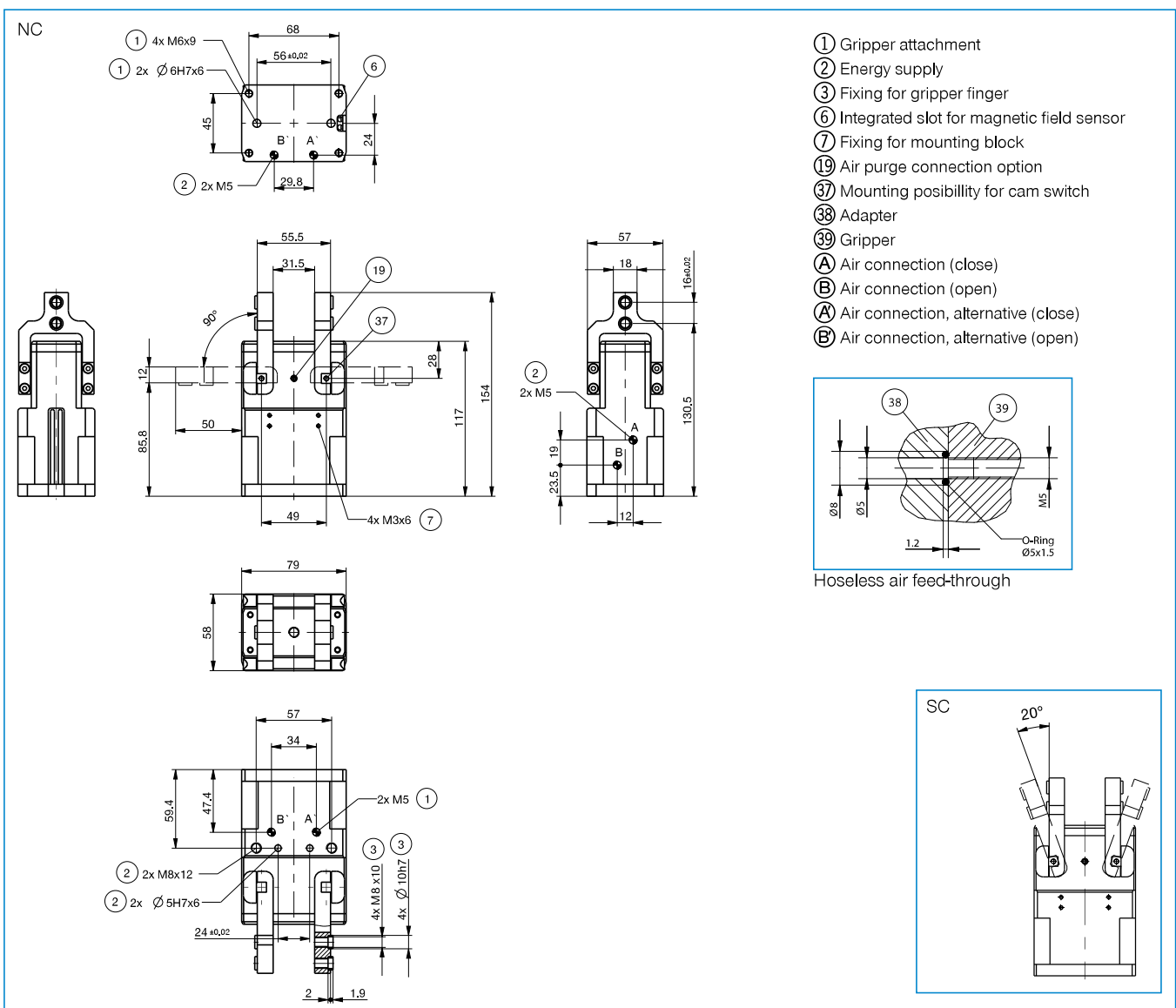


Plug-in connector customizable
Straight - Connector M8
S8-G-3

► Technical Data*

Order no.	GG4058NC	GG4058SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	46	53,5
Gripping force in closing [N]	1650	1900
Gripping moment secured by spring min. [Nm]	5,7	14,5
Length of the gripper fingers max. [mm]	120	120
Weight per jaw max. [g]	360	360
Closing time [s]	0,16	0,14
Opening time [s]	0,28	0,17
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	80	80
Air volume per cycle [cm³]	86	65
Weight [kg]	1,4	1,4

*All data measured at 6 bar



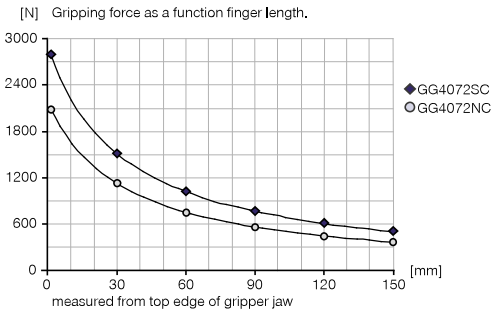
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4072

▶ PRODUCT SPECIFICATIONS

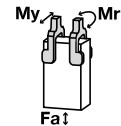


▶ Gripping force diagram



▶ Forces and moments

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



Mr [Nm]	41
My [Nm]	41
Fa [N]	1100

▶ INCLUDED IN DELIVERY



Centering Disc

DST42000



Stroke adjustment screw

HES0018

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Straight Fittings - Quick Connect Style

GV1-8X6



Pressure Safety Valve

DSV1-8



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



Inductive proximity switch
- Connector M8
NJ8-E2S



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



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

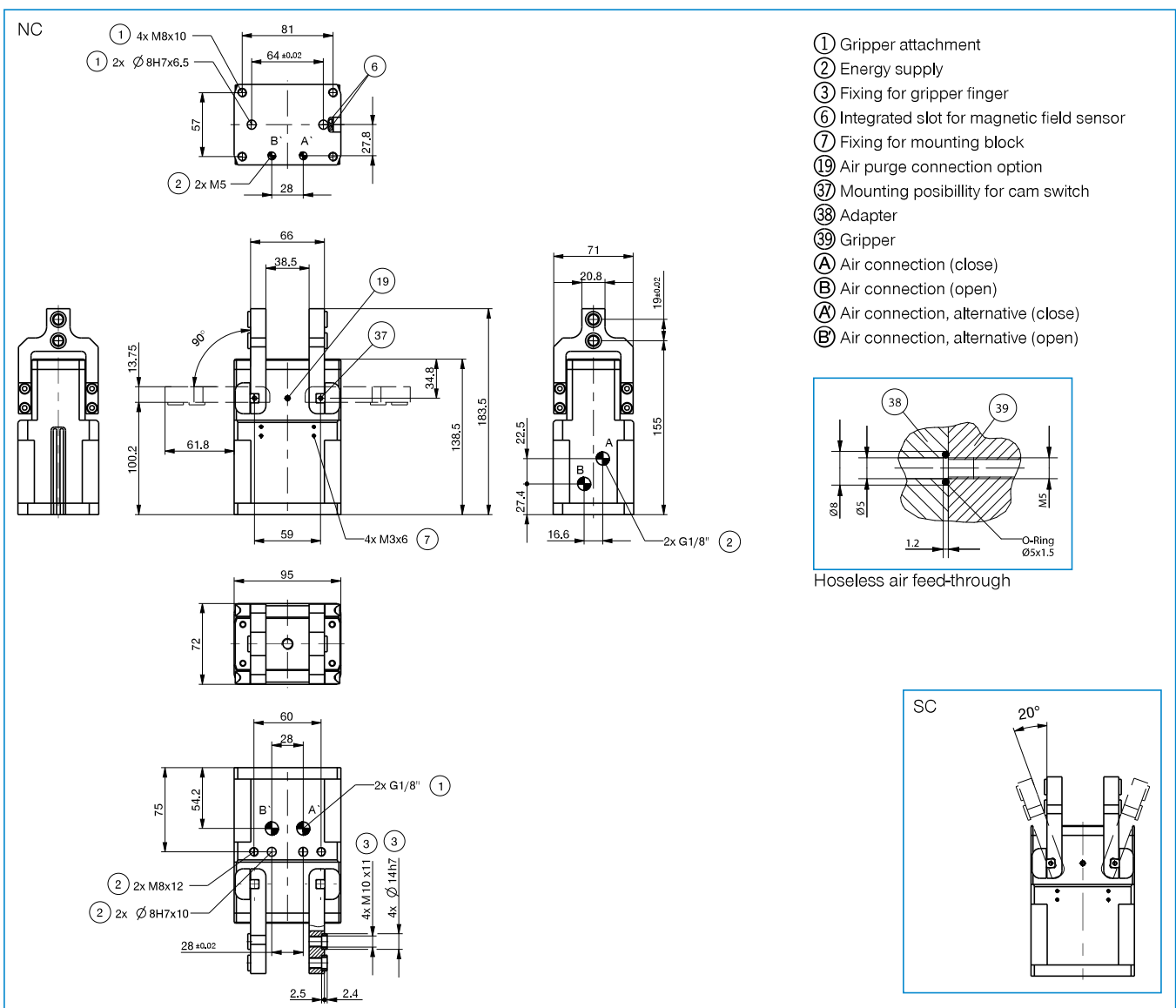


Plug-in connector customiz-
able Straight - Connector M8
S8-G-3

► Technical Data*

Order no.	GG4072NC	GG4072SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	69	94
Gripping force in closing [N]	1950	2700
Gripping moment secured by spring min. [Nm]	10	21
Length of the gripper fingers max. [mm]	145	145
Weight per jaw max. [g]	650	650
Closing time [s]	0,21	0,06
Opening time [s]	0,34	0,175
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	80	80
Air volume per cycle [cm³]	130	100
Weight [kg]	2,45	2,45

*All data measured at 6 bar



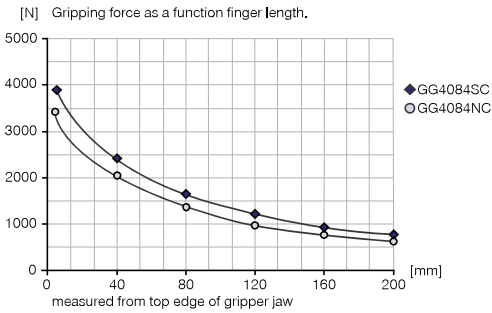
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4084

▶ PRODUCT SPECIFICATIONS

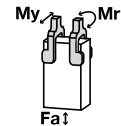


▶ Gripping force diagram



▶ Forces and moments

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



Mr [Nm]	60
My [Nm]	60
Fa [N]	1800

▶ INCLUDED IN DELIVERY



Centering Disc

DST43000



Stroke adjustment screw

HES0019

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Straight Fittings - Quick Connect Style

GV1-8X6



Pressure Safety Valve

DSV1-8



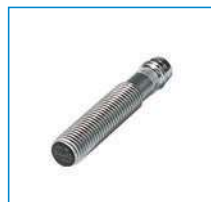
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



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



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



Inductive proximity switch
- Connector M8
NJ8-E2S



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



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



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

► Technical Data*

Order no.	GG4084NC	GG4084SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	135	156
Gripping force in closing [N]	3500	4000
Gripping moment secured by spring min. [Nm]	80	115
Length of the gripper fingers max. [mm]	175	175
Weight per jaw max. [g]	1000	1000
Closing time [s]	0,27	0,11
Opening time [s]	0,48	0,250
Repetition accuracy +/- [mm]	0,05	0,05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	80	80
Air volume per cycle [cm³]	220	170
Weight [kg]	4,5	4,5

*All data measured at 6 bar

NC

① 4x M10x11
① 2x Ø 10H7x7
② 2x M6
③ 76 ±0,02
④ 68,5
⑤ 34
⑥ 33,3
⑦ 79
⑧ 46
⑨ 19
⑩ 16,5
⑪ 74
⑫ 136,1
⑬ 179
⑭ 236
⑮ 70,6
⑯ 4x M3x6
⑰ 114
⑱ 84
⑲ 74
⑳ 34
㉑ 106,5
㉒ 63,8
㉓ 2x G1/8"
㉔ A
㉕ B
㉖ A'
㉗ B'
㉘ 4x M12 x14
㉙ 4x Ø 18h7
㉚ 34 ±0,02
㉛ 2,5
㉜ 2,4

- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ④ Integrated slot for magnetic field sensor
- ⑤ Fixing for mounting block
- ⑥ Air purge connection option
- ⑦ Mounting possibility for cam switch
- ⑧ Adapter
- ⑨ Gripper
- A Air connection (close)
- B Air connection (open)
- A' Air connection, alternative (close)
- B' Air connection, alternative (open)

Hoseless air feed-through

SC