

# 2-JAW RADIAL GRIPPER SERIES GK

1

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

## ▶ PRODUCT ADVANTAGES



SOMMER  
automatic 5

### “The compact”

#### ▶ Proven technology

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

#### ▶ Best force/installation space ratio

Force transmission using the toggle lever enables high gripping force while optimally utilizing the installation space

#### ▶ Smooth stroke configuration

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

## ▶ 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](http://www.zimmer-group.com)

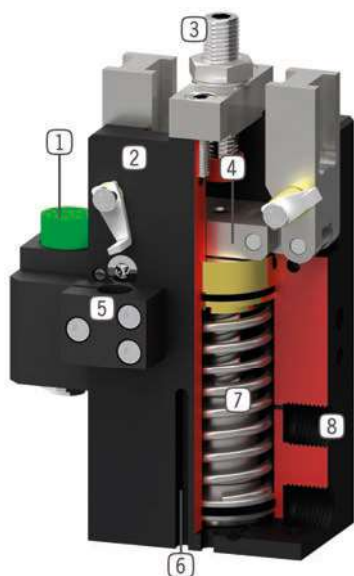
### HOW TO ORDER CORRECTLY

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

Order no.	GK15N	<input type="checkbox"/>	-B	
External gripping, mechanical self-locking at 0° opening angle and spring closing		C		



## ► BENEFITS IN DETAIL



- ① **Buffer stop**  
- absorption of kinetic energy for heavy and long gripper fingers
- ② **Robust, lightweight housing**  
- hard coated aluminium alloy
- ③ **Stroke adjustment screw**  
- Infinitely adjustable opening stroke
- ④ **Guided toggle lever mechanism**  
- synchronized the movement of the gripper jaws  
- mechanically self-locking
- ⑤ **Mounting block**  
- mounting for inductive proximity switch
- ⑥ **Sensing slot**  
- mounting and positioning of magnetic field sensors
- ⑦ **Integrated gripping force safety device**  
- spring integrated into cylinder as energy storage
- ⑧ **Energy supply**  
- possible from several sides

## ► SERIES CHARACTERISTICS



Number of installation sizes	6
Stroke per jaw	90°
Gripping force	100 N - 4250 N
Weight	0,12 kg - 4,1 kg
AP class	2



10 million maintenance-free cycles (max.)



IP20



Spring closing C



Magnetic field sensor



Inductive sensor

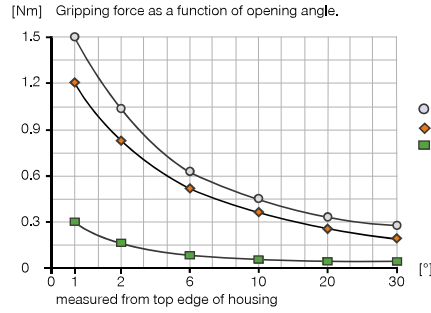
# 2-JAW RADIAL GRIPPER

## INSTALLATION SIZE GK15

### ▶ PRODUCT SPECIFICATIONS

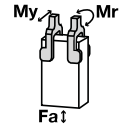


#### ▶ Gripping moment diagram



#### ▶ Forces and moments

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



Mr [Nm]	0,4
My [Nm]	0,4
Fa [N]	75

### ▶ RECOMMENDED ACCESSORIES



Buffer stop

**PB15N**



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 Angled  
Cable 5m - Socket M8  
(female)

**KAW500**



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

**KAG500**



Straight Fittings - Quick  
Connect Style

**GVM5**



Centering Disc

**ZE12H7X4**



Magnetic field sensor  
Angled Cable 5 m

**MFS103KHC**



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

**MFS103SKHC**



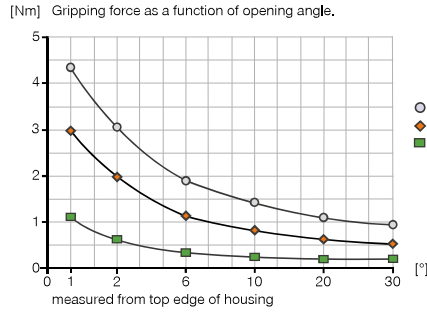
# 2-JAW RADIAL GRIPPER

## INSTALLATION SIZE GK20

### ▶ PRODUCT SPECIFICATIONS

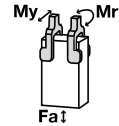


#### ▶ Gripping moment diagram



#### ▶ Forces and moments

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



Mr [Nm]	0,8
My [Nm]	1
Fa [N]	150

### ▶ INCLUDED IN DELIVERY



Mounting block

**KB8K**

### ▶ RECOMMENDED ACCESSORIES



Buffer stop

**PB20N**



Inductive proximity switch  
- Cable 5 m

**NJ8-E2**



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**



Straight Fittings - Quick  
Connect Style

**GVM5**



Centering Disc

**ZE20H7X4**



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**



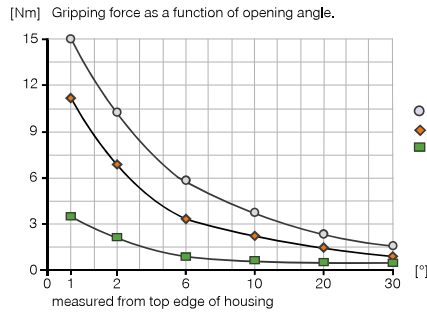
# 2-JAW RADIAL GRIPPER

## INSTALLATION SIZE GK25

### ▶ PRODUCT SPECIFICATIONS

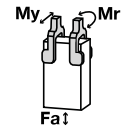


#### ▶ Gripping moment diagram



#### ▶ Forces and moments

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



Mr [Nm]	2,5
My [Nm]	4
Fa [N]	250

### ▶ INCLUDED IN DELIVERY



Mounting block

**KB8K**

### ▶ RECOMMENDED ACCESSORIES



Buffer stop

**PB25N**



Inductive proximity switch  
- Cable 5 m

**NJ8-E2**



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**



Straight Fittings - Quick  
Connect Style

**GVM5**



Centering Disc

**ZE20H7X4**



Magnetic field sensor  
Angled Cable 5 m

**MFS103KHC**



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

**MFS103SKHC**

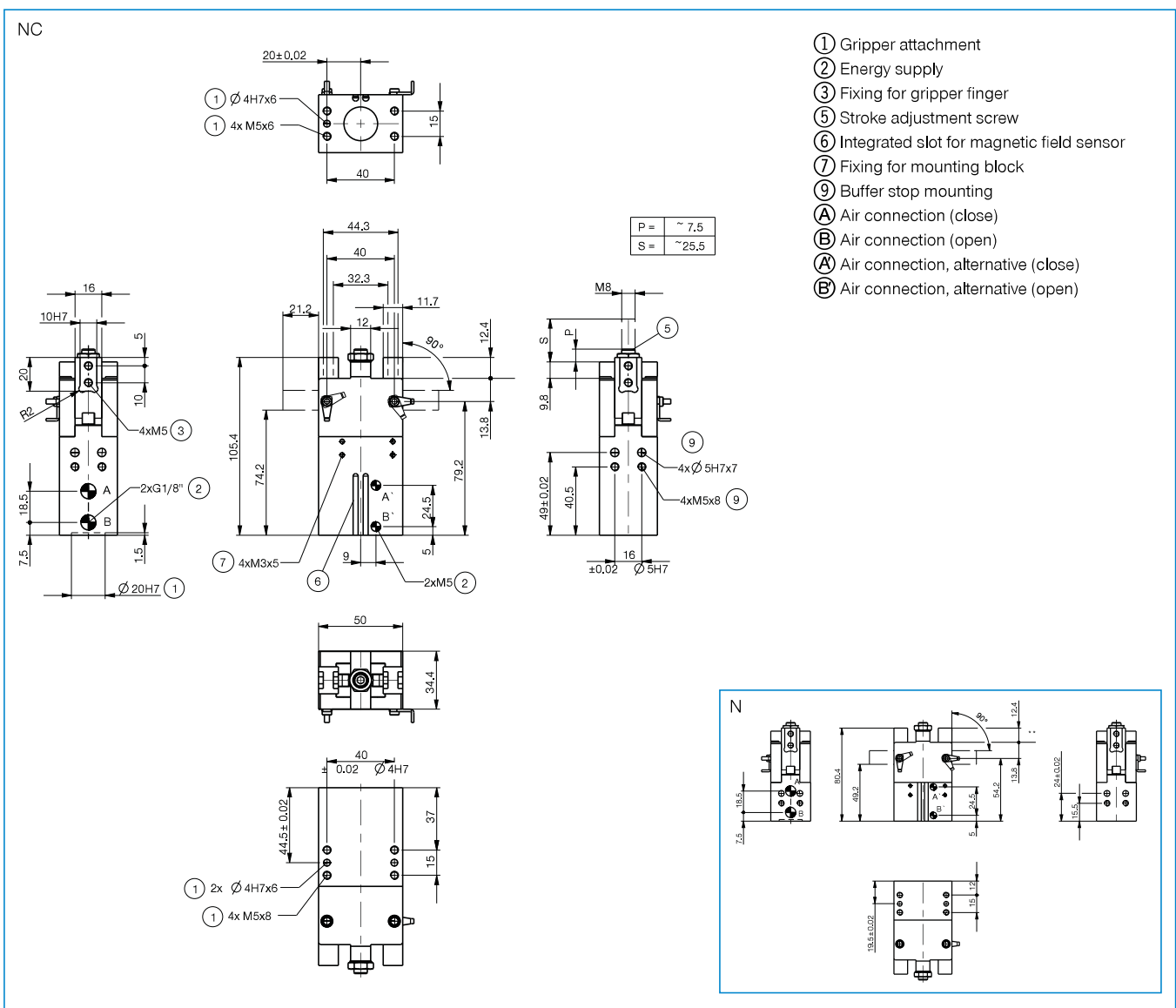


Magnetic field sensor  
Straight Cable 5 m

**MFS204KHC**

Order no.	Technical Data*	
	GK25N-B	GK25NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	10.5	14.5
Gripping force in closing [N]	440	610
Closing time [s]	0.15	0.25
Opening time [s]	0.15	0.25
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 <sup>3</sup> ]	18	21
Weight [kg]	0.42	0.58

\*All data measured at 6 bar





# 2-JAW RADIAL GRIPPER

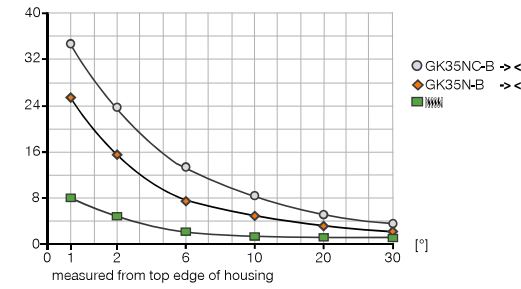
## INSTALLATION SIZE GK35

### ▶ PRODUCT SPECIFICATIONS



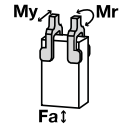
#### ▶ Gripping moment diagram

[Nm] Gripping force as a function of opening angle.



#### ▶ Forces and moments

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



Mr [Nm]	12
My [Nm]	20
Fa [N]	400

### ▶ INCLUDED IN DELIVERY



Mounting block

**KB8K**

### ▶ RECOMMENDED ACCESSORIES



Buffer stop

**PB35N**



Inductive proximity switch  
- Cable 5 m

**NJ8-E2**



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**



Straight Fittings - Quick  
Connect Style

**GVM5**



Centering Disc

**ZE25H7X6**



Magnetic field sensor  
Angled Cable 5 m

**MFS103KHC**



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

**MFS103SKHC**

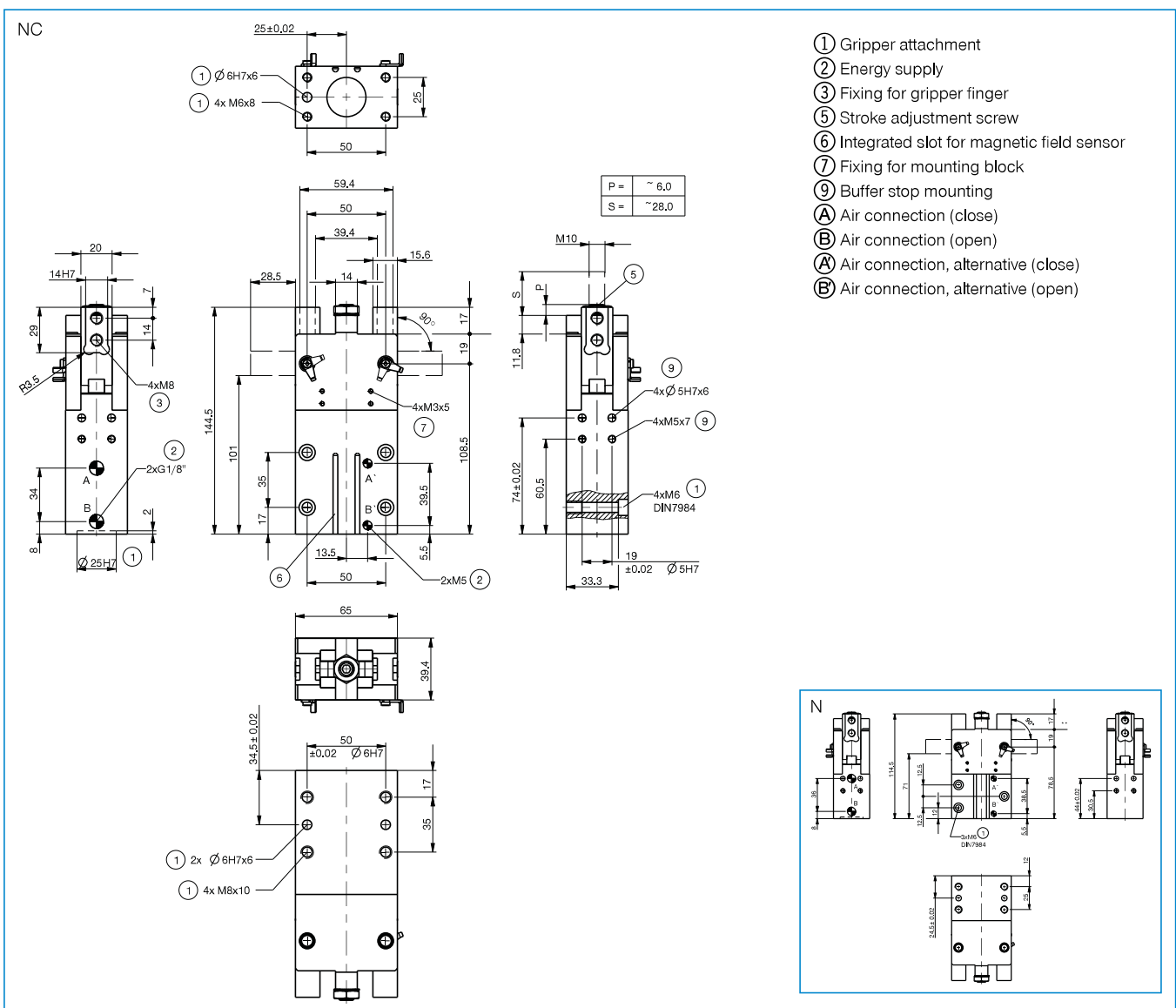


Magnetic field sensor  
Straight Cable 5 m

**MFS204KHC**

Order no.	Technical Data*	
	GK35N-B	GK35NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	27.5	36.5
Gripping force in closing [N]	950	1250
Closing time [s]	0.25	0.35
Opening time [s]	0.25	0.35
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 <sup>3</sup> ]	43	50
Weight [kg]	0.9	1.2

\*All data measured at 6 bar



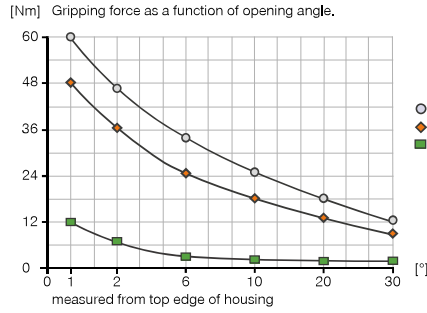
# 2-JAW RADIAL GRIPPER

## INSTALLATION SIZE GK40

### ▶ PRODUCT SPECIFICATIONS

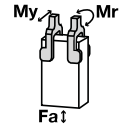


#### ▶ Gripping moment diagram



#### ▶ Forces and moments

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



Mr [Nm]	17
My [Nm]	30
Fa [N]	600

### ▶ INCLUDED IN DELIVERY



Mounting block

**KB8K**

### ▶ RECOMMENDED ACCESSORIES



Buffer stop

**PB40N**



Inductive proximity switch  
- Cable 5 m

**NJ8-E2**



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**



Straight Fittings - Quick  
Connect Style

**GVM5**



Centering Disc

**ZE30H7X4**



Magnetic field sensor  
Angled Cable 5 m

**MFS103KHC**



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

**MFS103SKHC**

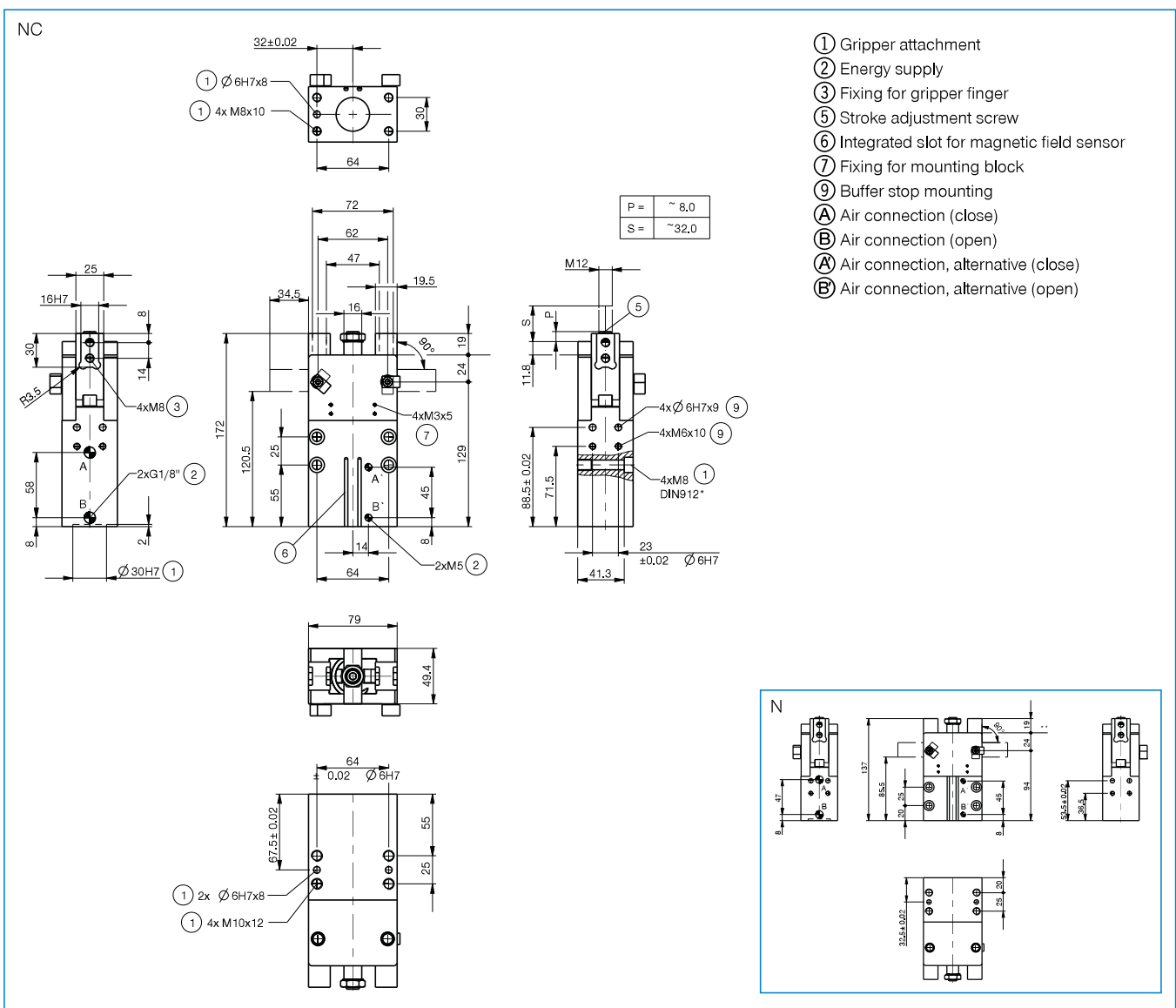


Magnetic field sensor  
Straight Cable 5 m

**MFS204KHC**

Order no.	Technical Data*	
	GK40N-B	GK40NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	47	62
Gripping force in closing [N]	1400	1820
Closing time [s]	0.25	0.35
Opening time [s]	0.25	0.35
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]	78	90
Weight [kg]	1.7	2.2

\*All data measured at 6 bar



# 2-JAW RADIAL GRIPPER

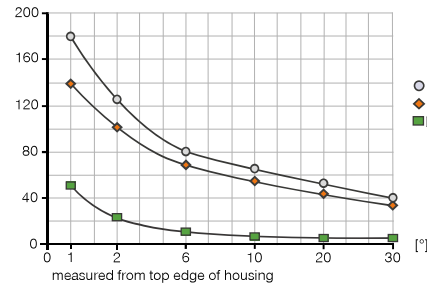
## INSTALLATION SIZE GK50

### ▶ PRODUCT SPECIFICATIONS



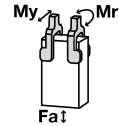
#### ▶ Gripping moment diagram

[Nm] Gripping force as a function of opening angle.



#### ▶ Forces and moments

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



Mr [Nm]	28
My [Nm]	40
Fa [N]	800

### ▶ INCLUDED IN DELIVERY



Mounting block

**KB8K**

### ▶ RECOMMENDED ACCESSORIES



Inductive proximity switch  
- Cable 5 m

**NJ8-E2**



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**



Straight Fittings - Quick  
Connect Style

**GV1-8X6**



Centering Disc

**ZE30H7X6**



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**

