

# 2-JAW PARALLEL GRIPPERS

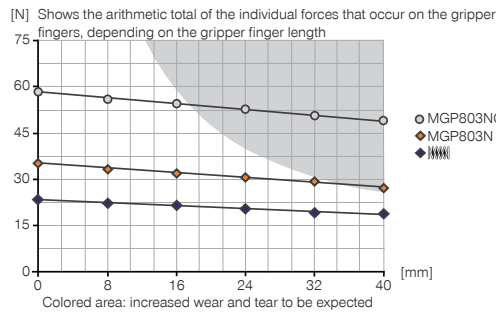
## INSTALLATION SIZE MGP803

1

### ▶ PRODUCT SPECIFICATIONS

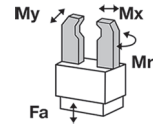


#### ▶ Gripping force diagram



#### ▶ 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

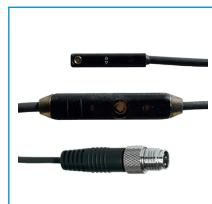
### ▶ RECOMMENDED ACCESSORIES



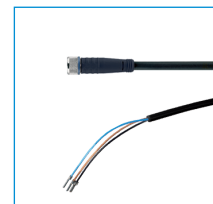
Magnetic field sensor  
Angled Cable 0,3 m -  
Connector M8  
MFS103SKHC



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



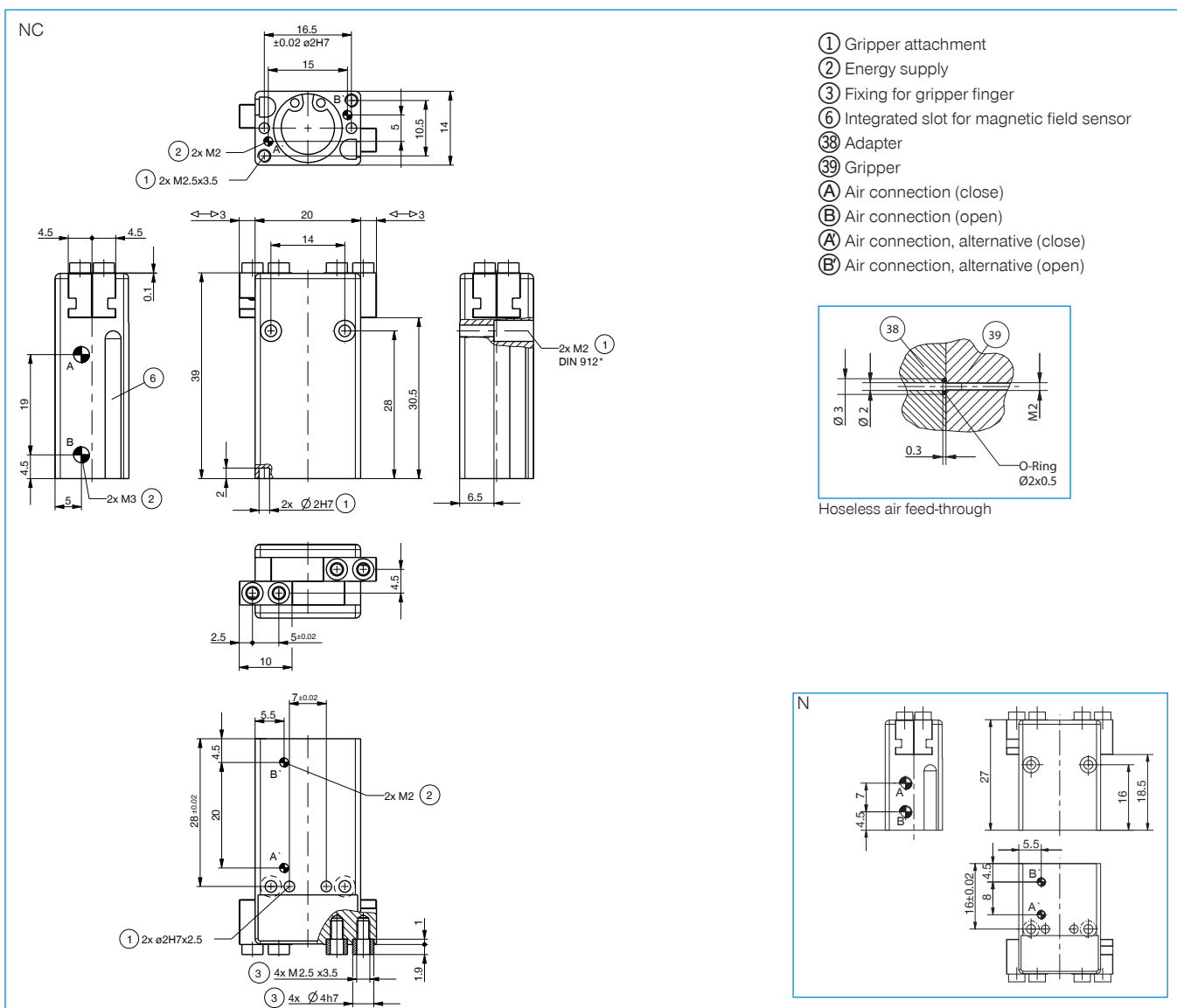
Angled Fittings - Barb  
Style Connection  
WVM3



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 [cm <sup>3</sup> ]	0.8	1.1
Weight [kg]	0.025	0.035

\*All data measured at 6 bar



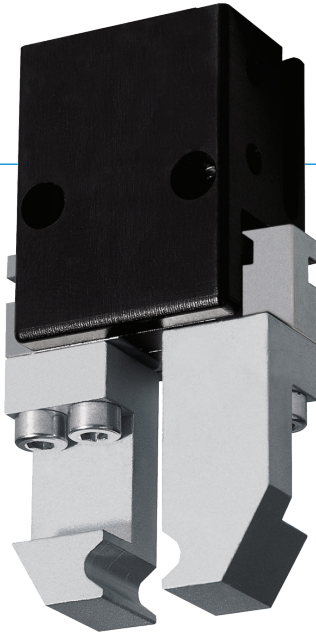
# 2-JAW PARALLEL GRIPPERS

## SERIES MGP800

1

Series MGP800 / 2-Jaw Parallel Grippers / pneumatic / Grippers

### ▶ 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 cycles

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products welcome the challenge!**  
Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.  
Find the best product for your specific use:  
[www.zimmer-group.de](http://www.zimmer-group.de)

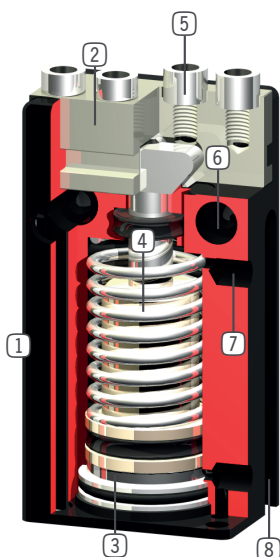
#### HOW TO ORDER CORRECTLY

- ▶ 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