

# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE MGW812

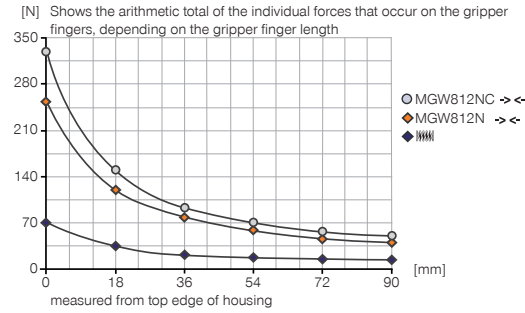
1

Installation size MGW812 / 2-Jaw Angular Grippers / pneumatic / Grippers

### ▶ PRODUCT SPECIFICATIONS

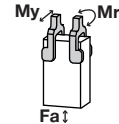


#### ▶ Gripping force diagram



#### ▶ Forces and moments

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



Mr [Nm]	2.3
My [Nm]	2.3
Fa [N]	720

### ▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

### ▶ RECOMMENDED ACCESSORIES



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



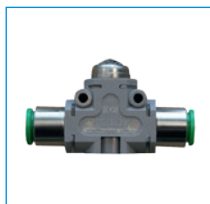
Straight Fittings - Quick  
Connect Style

GVM5



Angled Fittings - Quick  
Connect Style

WVM5



Quick Exhaust Valve

DEV04

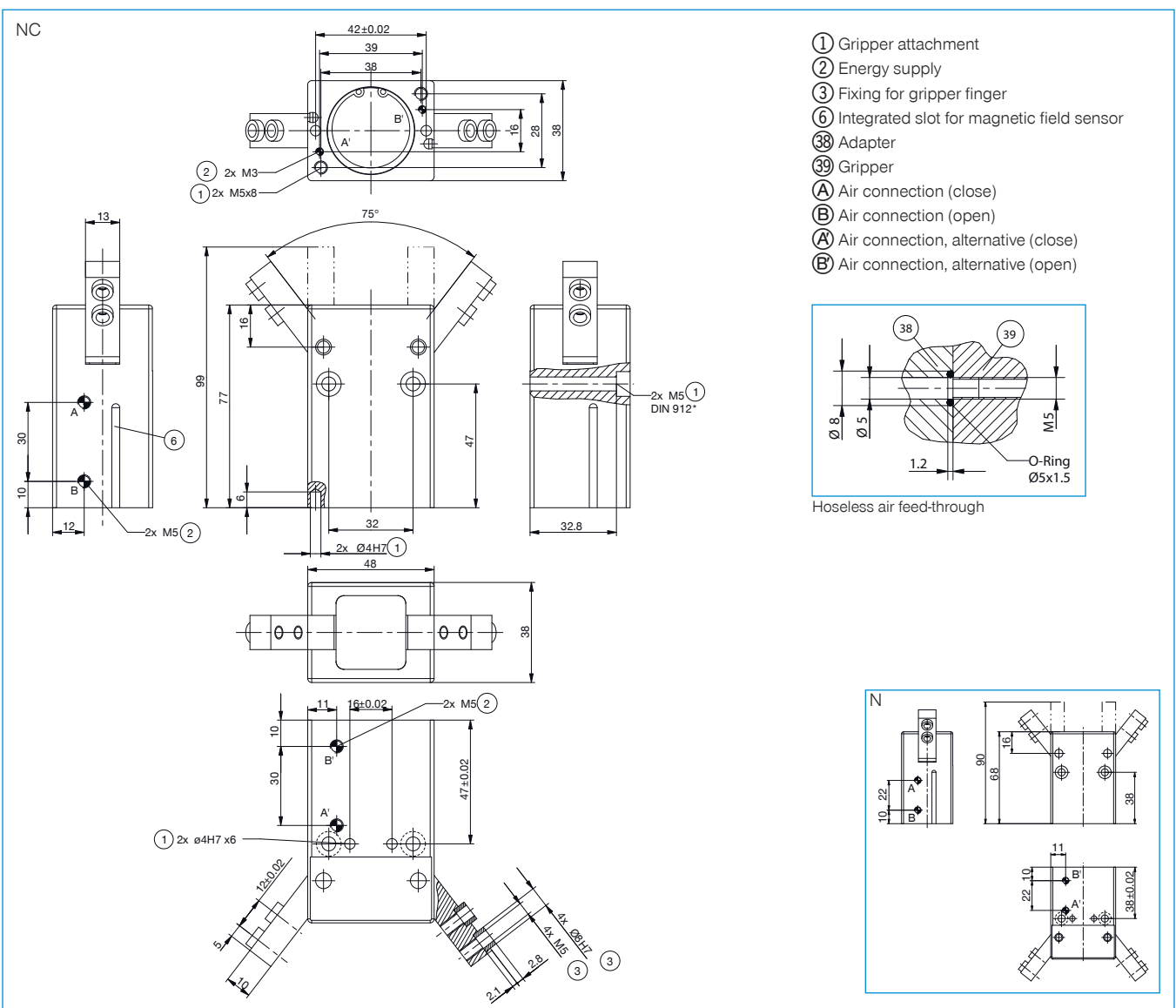


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*	
	MGW812N	MGW812NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	4.1	5.2
Gripping moment in opening [Nm]	4.55	
Gripping moment secured by spring min. [Nm]		1.1
Gripping force in closing [N]	255	325
Gripping force in opening [N]	285	
Closing time [s]	0.03	0.03
Opening time [s]	0.03	0.06
Repetition accuracy +/- [mm]	0.05	0.05
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]	22.1	27.6
Weight [kg]	0.4	0.45

\*All data measured at 6 bar



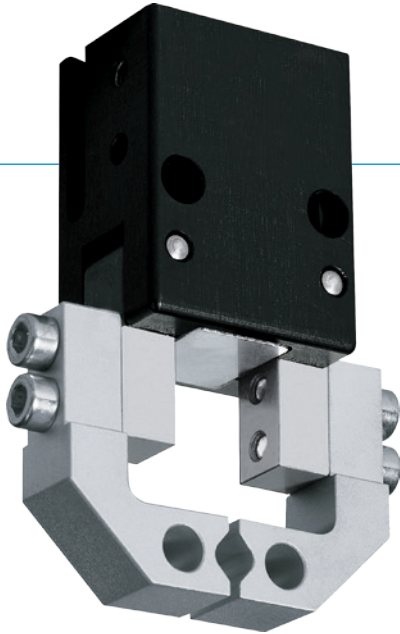
# 2-JAW ANGULAR GRIPPERS

## SERIES MGW800

1

Series MGW800 / 2-Jaw Angular Grippers / pneumatic / Grippers

### ▶ PRODUCT ADVANTAGES



#### “The economical”

##### ▶ Concentration on the essentials

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

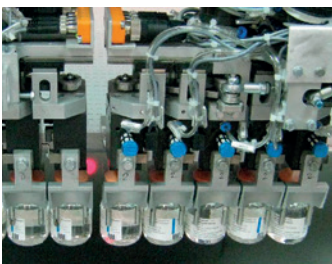
##### ▶ High moment load

The optimally designed angular gear box provides the highest durability for your application

##### ▶ 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)

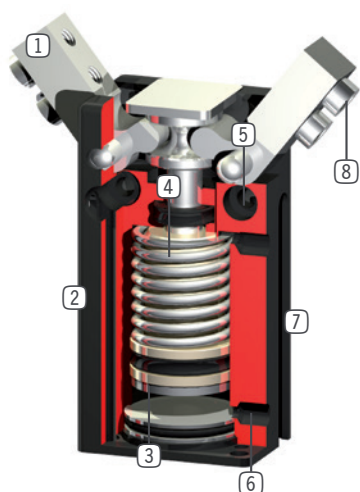
#### HOW TO ORDER CORRECTLY

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

Order no.	MGW803N	<input type="checkbox"/>		
For external gripping, self-locking, spring closing		C		



## BENEFITS IN DETAIL



- ① **Gripper jaw**  
- individual gripper finger mounting
- ② **Robust, lightweight housing**  
- Hard-coated aluminum alloy
- 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 **Mounting and positioning**  
- mounting possible from several sides for versatile positioning
- ⑥ **Energy supply**  
- possible from several sides
- ⑦ **Sensing slot**  
- 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	8
Stroke per jaw	37,5°
Gripping force	5 N - 325 N
Weight	0,01 kg - 0,45 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



IP30



Magnetic field sensor