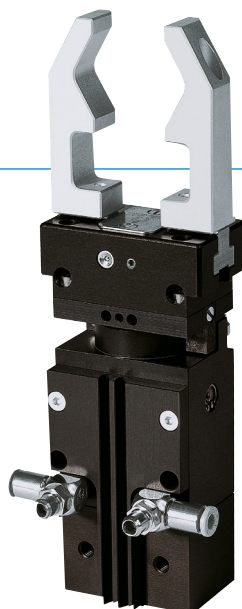


2-JAW PARALLEL ROTARY GRIPPERS

SERIES DGP400

► PRODUCT ADVANTAGES



“TWO in ONE”

► Proven T slot guide

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





► 2 in 1

Gripping and swivelling in a module allows optimum utilisation of the installation space

► Individually adjustable

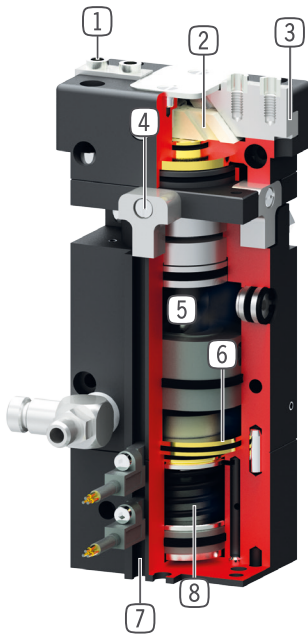
How you stay flexible: 90° or 180° swivel angle - You decide what your application requires on site

► SERIES CHARACTERISTICS

Installation size		Version		
DGP40X		N	NC	NO
 1.5 Mio	1.5 million maintenance-free cycles (max.)	•	•	•
 Spring closing C			•	
 Spring opening O				•
 IP 40	IP40	•	•	•



► BENEFITS IN DETAIL



- ① **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ② **Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
- ③ **Precise T-Slot guide**
 - high forces and moments capacity
- ④ **Endposition 0°/90°/180° adjustment**
 - endstops for 0°/90°/180° included with purchase
- ⑤ **Rotating-drive mechanism**
 - robust, wear-resistant
- ⑥ **Drive**
 - two double-acting pneumatic cylinders
- ⑦ **Slot for magnetic field sensor**
 - sensing of the rotational position and gripper jaw position
- ⑧ **Integrated gripping force safety device**
 - optional via integrated spring (C or O models)

► TECHNICAL DATA

Installation size	Stroke per jaw [mm]	Gripping force [N]	Weight [kg]	IP class
DGP404	4	115 - 155	0,44 - 0,48	IP40

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

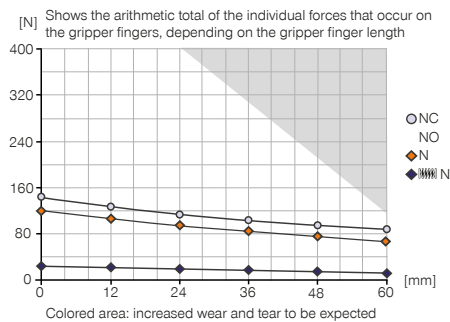
2-JAW PARALLEL ROTARY GRIPPERS

INSTALLATION SIZE DGP404

PRODUCT SPECIFICATIONS

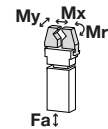


Gripping force diagram



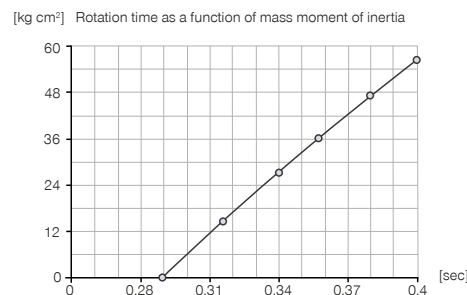
Forces and moments

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



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	10
Fa [N]	300

Rotation time diagram



INCLUDED IN DELIVERY



2 [piece]
Flow Control Valves - with Swivel joint
DRVM5X4



4 [piece]
Centering Disc
DST40400



1 [piece]
Stop 90° + 180°
ANS0065

RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GVM5
Straight Fittings - Quick Connect Style



SENSORS



MFS01-S-KHC-P1-PNP
Magnetic field sensor Angled Cable 0,3 m - Connector M8



SENSORS



MFS01-K-KHC-P1-PNP
Magnetic field sensor Angled Cable 5 m



MFS02-K-KHC-P1-PNP
Magnetic field sensor Straight Cable 5 m



MFS02-S-KHC-P1-PNP
Magnetic field sensor Straight Cable 0,3 m - Connector M8

Order no.	Technical data		
	DGP404N	DGP404NC	DGP404NO
Stroke per jaw [mm]	4	4	4
Gripping force in closing [N]	115	155	
Gripping force in opening [N]	115		155
Gripping force secured by spring min. [N]		40	40
Closing time / Opening time [s]	0.01 / 0.01	0.015 / 0.015	0.015 / 0.015
Torque [Nm]	0.5	0.5	0.5
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Repetition accuracy +/- [°]	0.05	0.05	0.05
Axial bearing load [N]	960	960	960
Radial bearing load [Nm]	10	10	10
Operating pressure [bar]	3 ... 8	3 ... 8	3 ... 8
Nominal operating pressure [bar]	6	6	6
Operating temperature [°C]	5 ... +80	5 ... +80	5 ... +80
Air volume per cycle [cm³]	3	5	5
Air volume per cycle 90° [cm³]	4.5	4.5	4.5
Air volume per cycle 180° [cm³]	9	9	9
Weight [kg]	0.44	0.48	0.48

