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 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

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

► FURTHER INFORMATION IS AVAILABLE ONLINE



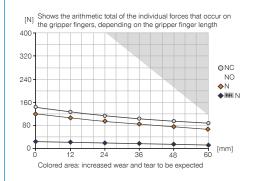
All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

2-JAW PARALLEL ROTARY GRIPPERS **INSTALLATION SIZE DGP404**

PRODUCT SPECIFICATIONS



Gripping force diagram



Forces and moments

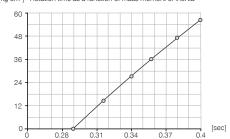
Displays static forces and moments that can also have an effect, besides the gripping force.



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

Rotation time diagram

Rotation time as a function of mass moment of inertia



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 - M8 connector



SENSORS



MFS02-K-KHC-P1-PNP

Magnetic field sensor straight, cable 5 m



MFS01-K-KHC-P1-PNP

Magnetic field sensor angled, cable 5 m



MFS02-S-KHC-P1-PNP

Magnetic field sensor straight, cable 0.3 m - M8

	Technical data		
Order no.	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

