

# 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			•
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](http://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.

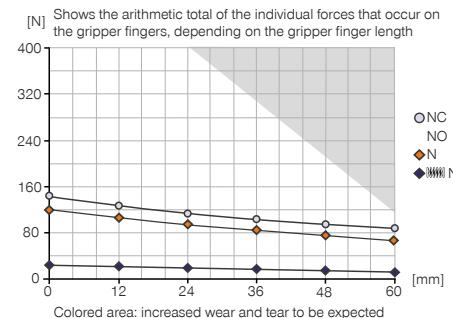
# 2-JAW PARALLEL ROTARY GRIPPERS

## INSTALLATION SIZE DGP404

### ► PRODUCT SPECIFICATIONS

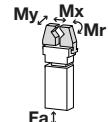


#### ► Gripping force diagram



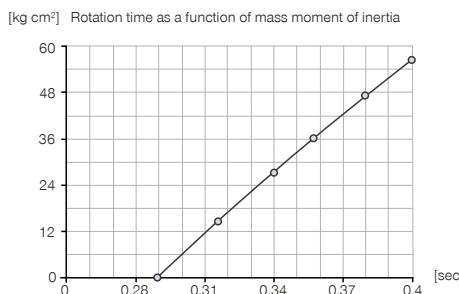
#### ► Forces and moments

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  
**DRVMSX4**



4 [piece]  
Centering Disc  
**DST4040**



1 [piece]  
Stop 90° + 180°  
**ANS0065**

### ► RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**GVM**  
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

