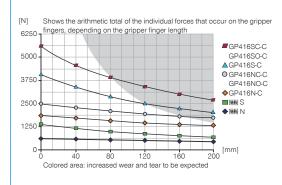
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP416

▶ PRODUCT SPECIFICATIONS



Gripping force diagram



Forces and moments

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



140
160
180
5000

► INCLUDED IN DELIVERY



Mounting block



Centering Disc

KB8K

DST41600

> RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB416



Universal Jaw Steel

UB416ST



Alternate proximity bracket

KHA416-B-8



Magnetic field sensor Angled Cable 0,3 m -





Magnetic field sensor Straight Cable 0,3 m -

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

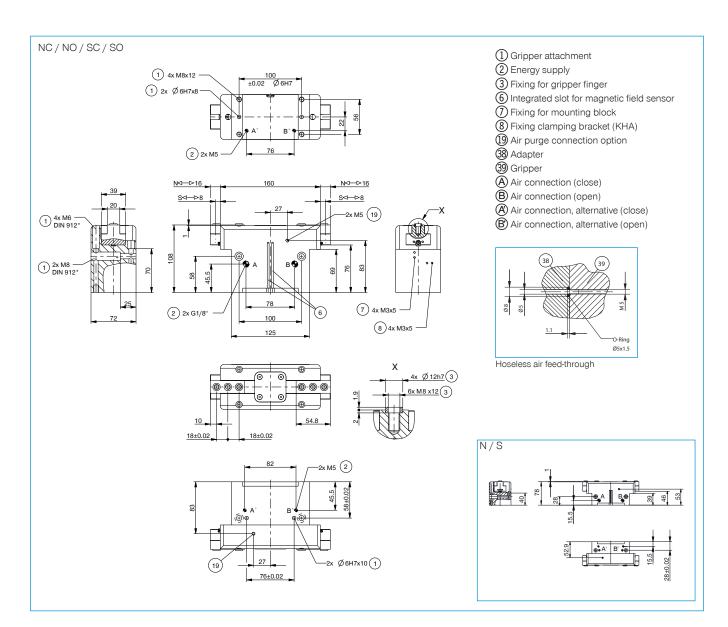


Pressure Safety Valve

DSV1-8

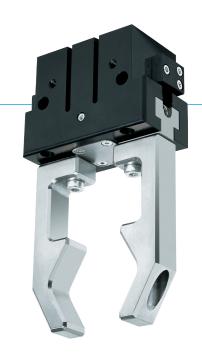
	Technical	Data*				
Order no.	GP416N-C	GP416NC-C	GP416NO-C	GP416S-C	GP416SC-C	GP416SO-C
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	1860	2490		4160	5560	
Gripping force in opening [N]	1960		2590	4390		5780
Gripping force secured by spring min. [N]		630	630		1400	1400
Closing time [s]	0.2	0.15	0.25	0.2	0.15	0.25
Opening time [s]	0.2	0.25	0.15	0.2	0.25	0.15
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	268	477	477	268	477	477
Weight [kg]	2.9	3.4	3.4	2.9	3.4	3.4

^{*}All data measured at 6 bar



2-JAW PARALLEL GRIPPERS **SERIES GP400**

PRODUCT ADVANTAGES



"The economical"

Concentration on the essentials

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

Proven T slot guide

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

Compact structure

Reduces the interference contours for your application

> THE BEST PRODUCT FOR YOUR APPLICATION



Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities: Find the best product for your specific use: www.zimmer-group.com

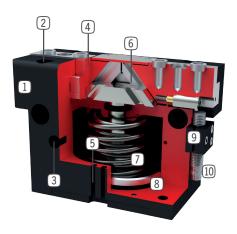
HOW TO ORDER CORRECTLY

The product order numbers are arranged according to this diagram:

Order no.	GP410			-c	
Long stroke		N			
High force		S			
For external gripping, self-locking, spring closing			С		
For internal gripping, self-locking, spring opening			0		



BENEFITS IN DETAIL



- 1 Robust, lightweight housing
 - Hard-coated aluminum alloy
- 2 Mounting and positioning
 - mounting possible from several sides for versatile positioning
- (3) Energy supply
 - possible from several sides
- 4 Gripper jaw
 - individual gripper finger mounting
- 5 Sensing slot
 - mounting and positioning of magnetic field sensors
- 6 Wedge hook mechanism
 - synchronized the movement of the gripper jaws
- (7) Integrated gripping force safety device
 - spring integrated into cylinder as energy storage
- 8 Position sensing
 - permanent magnet for direct monitoring of piston movement
- 9 Mounting block
 - mounting for inductive proximity switch (10)

SERIES CHARACTERISTICS



Number of installation sizes	9
Stroke per jaw	3 mm - 30 mm
Gripping force	85 N - 19275 N
Weight	0,08 kg - 18,9 kg
AP class	3



10 million maintenance-free cycles (max.)



High-strength S



Magnetic field sensor



Spring closing C



Inductive sensor



Purged air



Spring opening O



IP40