

# Parallel gripper DHPS-16-A

Part number: 1254043

FESTO



## Data sheet

Feature	Value
Size	16
Stroke per gripper jaws	5 mm
Max. replacement accuracy	0.2 mm
Max. angular gripper jaw backlash ax, ay	0.5 deg
Max. gripper jaw backlash Sz	0.02 mm
Rotationally symmetrical	0.2 mm
Repetition accuracy, gripper	0.02 mm
Number of gripper jaws	2
Mounting position	optional
Mode of operation	Double-acting
Gripper function	Parallel
Design	Lever Force pilot operated motion sequence
Guide	Plain-bearing guide
Position detection	Via proximity switch
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Max. operating frequency of gripper	3 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	33 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	41 ms
Max. mass per external gripper finger	150 g
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Metals with more than 5% by mass of copper are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils
Ambient temperature	5 °C...60 °C
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	210 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	190 N

Feature	Value
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	105 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	96 N
Mass moment of inertia	0.465 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	150 N
Max. torque at gripper Mx static	8 Nm
Max. torque at gripper My static	8 Nm
Max. torque at gripper Mz static	8 Nm
Lubrication interval for guide components	10 MioCyc
Product weight	184 g
Type of mounting	Via female thread and centring sleeve Via through-hole and centring sleeve Either:
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material cover cap	PA
Material housing	Hard anodised wrought aluminium alloy
Material gripper jaws	High-alloy stainless steel