

# Parallel gripper DHPC-16-A-B-1

Part number: 8116789

FESTO



## Data sheet

Feature	Value
Size	16
Stroke per gripper jaw	3 mm
Max. replacement accuracy	0.2 mm
Max. angular gripper jaw backlash ax,ay	0 deg
Max. gripper jaw backlash Sz	0 mm
Rotationally symmetrical	≤ 0.2 mm
Repetition accuracy, gripper	≤ 0.02 mm
Number of gripper fingers	2
Drive system	pneumatic
Assembly position	Any
Mode of operation	double-acting
Gripper function	Parallel
Gripper force back-up	No
Design structure	Connection direction underneath Lever Sideways mounting of gripper fingers guided motion sequence
Guide	Ball guide
Position detection	For proximity sensor
Variants	Recommended for production facilities for the manufacture of lithium-ion batteries
Total gripping force at 0.6 MPa (6 bar, 87 psi), opening	125.4 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	107.8 N
Operating pressure MPa	0.1 ... 0.8 MPa
Working pressure	1 ... 8 bar
Operating pressure	14.5 ... 116 psi
Max. operating frequency of gripper	3 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	29 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	31 ms
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F1a
Ambient temperature	-10 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	62.7 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	53.9 N
Mass moment of inertia	0.148 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	49 N
Max. torque at gripper Mx static	0.34 Nm
Max. torque at gripper My static	0.68 Nm
Max. torque at gripper Mz static	0.34 Nm
Product weight	111 g
Mounting type	Direct mounting via through-holes Direct mounting via threads

Feature	Value
	With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection	M3
Materials note	Conforms to RoHS
Material housing	Anodised aluminium
Material gripper jaws	High alloy steel, non-corrosive