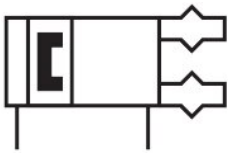
Parallel gripper
DHPS-16-A

Part number: 1254043





Data sheet

Feature	Value
Size	16
Stroke per gripper jaw	5 mm
Max. interchangeability	0.2 mm
Max. gripper jaw angular play ax, ay	0.5 deg
Max. gripper jaw backlash Sz	0.02 mm
Rotational symmetry	0.2 mm
Pneumatic gripper repetition accuracy	0.02 mm
Number of gripper jaws	2
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Parallel
Structural design	Lever Positively driven motion sequence
Guide	Plain-bearing guide
Position sensing	Via proximity switch
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Max. operating frequency of pneumatic gripper	3 Hz
Min. opening time at 6 bar	33 ms
Min. closing time at 6 bar	41 ms
Max. mass per external gripper finger	150 g
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
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. This excludes printed circuit boards, cables, electrical connectors and coils.
Ambient temperature	5 °C...60 °C
Gripping force per gripper jaw at 6 bar, opening	210 N 105 N
Gripping force per gripper jaw at 6 bar, closing	190 N

Feature	Value
	96 N
Mass moment of inertia	0.465 kgcm²
Maximum force on gripper jaw Fz, static	150 N
Maximum torque on gripper jaw, Mx static	8 Nm
Maximum torque on gripper jaw, My static	8 Nm
Maximum torque on gripper jaw, Mz static	8 Nm
Relubrication interval for guidance elements	10 MioCyc
Product weight	184 g
Type of mounting	Alternatively: With internal thread and centering sleeve Via through-hole and centering sleeve
Pneumatic connection	M3
Note on materials	RoHS compliant
Cover cap material	PA
Housing material	Wrought aluminum alloy, hard-anodized
Gripper jaw material	high-alloy stainless steel