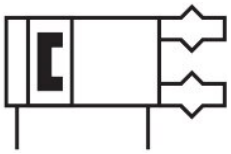
Parallel gripper
DHPC-20-A-S-1

Part number: 8116818





Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	5 mm
Max. interchangeability	0.2 mm
Max. gripper jaw angular play ax, ay	0 deg
Max. gripper jaw backlash Sz	0 mm
Rotational symmetry	0.2 mm
Pneumatic gripper repetition accuracy	0.02 mm
Number of gripper jaws	2
Actuator system	Pneumatic
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Parallel
Gripping force backup	None
Structural design	Lateral connection direction Lever Side mounting type for gripper fingers Positively driven motion sequence
Guide	Ball guide
Position sensing	Via proximity switch
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Operating pressure	0.1 MPa...0.8 MPa 1 bar...8 bar 14.5 psi...116 psi
Max. operating frequency of pneumatic gripper	3 Hz
Min. opening time at 6 bar	62 ms
Min. closing time at 6 bar	40 ms
Max. mass per external gripper finger	110 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)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L

Feature	Value
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Ambient temperature	-10 °C...60 °C
Gripping force per gripper jaw at 6 bar, opening	192.6 N 96.3 N
Gripping force per gripper jaw at 6 bar, closing	159.5 N 79.8 N
Mass moment of inertia	0.515 kgcm²
Maximum force on gripper jaw Fz, static	101.3 N
Maximum torque on gripper jaw, Mx static	1.43 Nm
Maximum torque on gripper jaw, My static	1.3 Nm
Maximum torque on gripper jaw, Mz static	1.3 Nm
Product weight	224 g
Type of mounting	Alternatively: Direct mounting via through-hole Direct fastening via thread On mounting frame With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection	M5
Note on materials	RoHS compliant
Housing material	Anodized aluminum
Gripper jaw material	high-alloy stainless steel