Parallel gripper
DHPC-L-20-A-NC-S-1

Part number: 8116845





Data sheet

Feature	Value
Size	20
Stroke per gripper jaws	9 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 jaws	2
Drive system	Pneumatic
Mounting position	optional
Mode of operation	Single-acting Closed
Gripper function	Parallel
Gripper force back-up	During closing
Design	Connection direction at side Lever Side mounting method for gripper fingers Force pilot operated motion sequence
Guide	Ball guide
Position detection	Via proximity switch
Operating pressure	0.25 MPa...0.8 MPa 2.5 bar...8 bar 36.25 psi...116 psi
Max. operating frequency of gripper	3 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	176 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	50 ms
Max. mass per external gripper finger	110 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	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)

Feature	Value
Ambient temperature	-10 °C...60 °C
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	170.9 N
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	85.5 N
Mass moment of inertia	0.764 kgcm²
Max. force on gripper jaw Fz static	101.3 N
Max. torque at gripper Mx static	1.43 Nm
Max. torque at gripper My static	1.3 Nm
Max. torque at gripper Mz static	1.3 Nm
Product weight	261 g
Type of mounting	Either: Direct mounting via through-hole Direct mounting via thread On mounting frame Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material housing	Anodised aluminium
Material gripper jaws	High-alloy stainless steel