Parallel gripper HGPD-20-A-G2

Part number: 1132941

Data sheet

Feature	Value
Size	20
Stroke per gripper jaws	4 mm
Max. replacement accuracy	0.2 mm
Max. angular gripper jaw backlash ax, ay	0.1 deg
Max. gripper jaw backlash Sz	0.02 mm
Rotationally symmetrical	0.2 mm
Repetition accuracy, gripper	0.04 mm
Number of gripper jaws	2
Drive system	Pneumatic
Mounting position	optional
Mode of operation	Double-acting
Gripper function	Parallel
Gripper force back-up	During closing
Design	Wedge-shaped drive Force pilot operated motion sequence
Position detection	Via proximity switch
Operating pressure	4 bar...8 bar
Operating pressure of blocked air	0 bar...0.5 bar
Max. operating frequency of gripper	3 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	35 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	18 ms
Max. mass per external gripper finger	57 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	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Metals with more than 5% copper by mass are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils
Degree of protection	IP65
Ambient temperature	5 °C...60 °C

Feature	Value
Mass moment of inertia	0.52 kgcm²
Max. torque at gripper Mx static	12 Nm
Max. torque at gripper My static	7 Nm
Max. torque at gripper Mz static	6 Nm
Lubrication interval for guide components	5000000 MioCyc
Product weight	182 g
Type of mounting	Either: Via female thread and centring sleeve Via through-hole and centring sleeve Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection, blocked air	M3
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cover cap	High-alloy stainless steel
Material housing	Anodised aluminium
Material gripper jaws	Hardened steel