Parallel gripper
DHPC-L-20-A-S-2

Part number: 8116837



Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	9 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
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Parallel
Structural design	Connection direction at side Flat mounting type for gripper fingers Lever Positively driven motion sequence
Guide	Ball guide
Position sensing	For proximity sensor
Symbol	00991894
Variants	Metals with copper, zinc or nickel 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.
Total gripping force at 6 bar, opening	192.6 N
Total gripping force at 6 bar, closing	159.5 N
Operating pressure	0.1 MPa ... 0.8 MPa
Operating pressure	1 bar ... 8 bar
Operating pressure	14.5 psi ... 116 psi
Max. operating frequency of pneumatic gripper	3 Hz
Min. opening time at 6 bar	110 ms
Min. closing time at 6 bar	75 ms
Max. mass per external gripper finger	450 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 conformity	VDMA24364-B2-L
Ambient temperature	-10 °C ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	96.3 N
Gripping force per gripper jaw at 6 bar, closing	79.8 N

Feature	Value
Mass moment of inertia	0.515 kgcm²
Maximum force on gripper jaw Fz, static	73.5 N
Maximum torque on gripper jaw, Mx static	0.66 Nm
Maximum torque on gripper jaw, My static	1.33 Nm
Maximum torque on gripper jaw, Mz static	0.66 Nm
Product weight	261 g
Type of mounting	Optionally: 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	Free of copper and PTFE RoHS-compliant
Housing material	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel