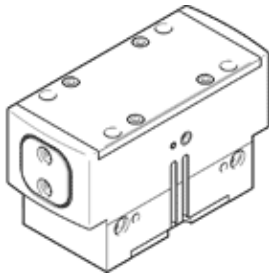


Parallel gripper HGPD-80-A

Part number: 1132957

FESTO



Data sheet

Feature	Value
Size	80
Stroke per gripper jaw	20 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	≤ 0.05 mm
Number of gripper fingers	2
Drive system	pneumatic
Assembly position	Any
Mode of operation	double-acting
Gripper function	Parallel
Gripper force back-up	No
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total gripping force at 0.6 MPa (6 bar, 87 psi), opening	3,922 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	3,716 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	≤ 2 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	214 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	218 ms
Max. mass per external gripper finger	2,170 g
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L
Protection class	IP65
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	1,961 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	1,858 N
Mass moment of inertia	236.48 kgcm ²
Max. force on gripper jaw Fz static	6,000 N
Max. torque at gripper Mx static	170 Nm
Max. torque at gripper My static	130 Nm
Max. torque at gripper Mz static	110 Nm
Lubrication interval for guide components	5,000,000 Mio SP
Product weight	6,252 g
Mounting type	Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection, sealing air	M5

Feature	Value
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Anodised aluminium
Material gripper jaws	Steel, hardened