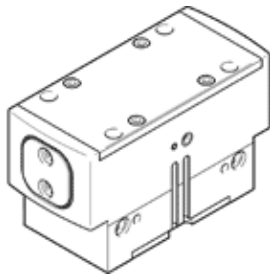


Parallel gripper HGPS-80-A

Part number: 1132957

FESTO



Data sheet

Feature	values
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
Assembly position	Any
Mode of operation	double-acting
Gripper function	Parallel
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	3,922 N
Total force at 6 bar, 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 6 bar	214 ms
Min. closing time at 6 bar	218 ms
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
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	1,961 N
Gripping force per gripper jaw at 6 bar, 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
Max. ground per external gripper finger	2,170 g
Product weight	6,252 g
Mounting type	Optional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection, sealing air	M5
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Materials information for cover cap	High alloy steel, non-corrosive
Materials information, housing	Aluminum Anodized
Materials information for gripper jaws	Steel Hardened