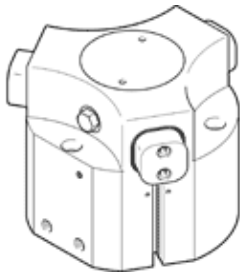


three-point gripper HGDD-80-A-G1

Part number: 1163050

FESTO

With gripping force backup when opening ...-G1.



Data sheet

Feature	Value
Size	80
Stroke per gripper jaw	12 mm
Max. replacement accuracy	≤ 0.2 mm
Max. angular gripper jaw backlash ax,ay	≤ 0.1 deg
Max. gripper jaw backlash Sz	≤ 0.05 mm
Rotationally symmetrical	≤ 0.2 mm
Repetition accuracy, gripper	≤ 0.05 mm
Number of gripper fingers	3
Assembly position	Any
Mode of operation	double-acting
Gripper function	3-point
Gripper force back-up	On opening
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Operating pressure	4 ... 8 bar
Operating pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	≤ 4 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	72 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	246 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 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L
Protection class	IP65
Ambient temperature	5 ... 60 °C
Mass moment of inertia	109 kgcm ²
Max. force on gripper jaw Fz static	3,600 N
Max. torque at gripper Mx static	100 Nm
Max. torque at gripper My static	65 Nm
Max. torque at gripper Mz static	75 Nm
Lubrication interval for guide components	5 Mio SP
Max. mass per external gripper finger	790 g
Product weight	4,788 g
Mounting type	With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection, sealing air	G1/8
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Smooth-anodised wrought aluminium alloy
Material gripper jaws	Steel, hardened