

Three-point gripper HGDD-80-A-G1

Part number: 1163050

FESTO



Data sheet

Feature	Value
Size	80
Stroke per gripper jaws	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 jaws	3
Mounting position	optional
Mode of operation	Double-acting
Gripper function	3-point
Gripper force back-up	During opening
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	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 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
Degree of protection	IP65
Ambient temperature	5 °C...60 °C
Mass moment of inertia	109 kgcm ²
Max. force on gripper jaw Fz static	3600 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

Feature	Value
Lubrication interval for guide components	5 MioCyc
Max. mass per external gripper finger	790 g
Product weight	4788 g
Type of mounting	Via through-hole and dowel pin Via female thread and dowel pin Either:
Pneumatic connection, blocked air	G1/8
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover cap	High-alloy stainless steel
Material housing	Smooth-anodised wrought aluminium alloy
Material gripper jaws	Hardened steel