

Three-point gripper HGDD-80-A

Part number: 1163049

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
Design	Wedge-shaped drive Force pilot operated motion sequence
Position detection	Via proximity switch
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	2829 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	2745 N
Operating pressure	3 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)	152 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	142 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
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	943 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	915 N
Mass moment of inertia	70.22 kgcm ²
Max. force on gripper jaw Fz static	3600 N

Feature	Value
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 MioCyc
Max. mass per external gripper finger	790 g
Product weight	3522 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