

Three-point gripper HGDD-63-A

Part number: 1163046

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Size	63
Stroke per gripper jaws	10 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	Force pilot operated motion sequence
Position detection	Via proximity switch
Symbol	00991894
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	1746 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	1659 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)	115 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	145 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)	582 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	553 N
Mass moment of inertia	29 kgcm ²
Max. force on gripper jaw Fz static	2300 N
Max. torque at gripper Mx static	70 Nm
Max. torque at gripper My static	45 Nm
Max. torque at gripper Mz static	50 Nm

Feature	Value
Lubrication interval for guide components	5 MioCyc
Max. mass per external gripper finger	440 g
Product weight	2175 g
Type of mounting	Either: Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection, blocked air	M5
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