

Three-point gripper HGDT-40-A

Part number: 540865

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Size	40
Stroke per gripper jaws	6 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	≤0.03 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)	687 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	618 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)	62 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	59 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-B1/B2-L
Ambient temperature	5 °C ... 60 °C
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	229 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	206 N
Mass moment of inertia	4.37 kgcm ²
Max. force on gripper jaw Fz static	800 N
Max. torque at gripper Mx static	30 Nm
Max. torque at gripper My static	20 Nm
Max. torque at gripper Mz static	25 Nm
Lubrication interval for guide components	5 MioCyc

Feature	Value
Max. mass per external gripper finger	70 g
Product weight	712 g
Type of mounting	Either: Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection, blocked air	M5
Pneumatic connection	M5
Material cover cap	High-alloy stainless steel
Material housing	Wrought aluminium alloy Coated with COMPCOTE
Material gripper jaws	Hardened steel