

Three-point gripper DHDS-50-A

Part number: 1259495

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Size	50
Stroke per gripper jaws	6 mm
Max. replacement accuracy	≤0.2 mm
Max. angular gripper jaw backlash ax, ay	≤0.2 deg
Max. gripper jaw backlash Sz	≤0.02 mm
Rotationally symmetrical	≤0.2 mm
Repetition accuracy, gripper	≤0.04 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)	840 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	750 N
Operating pressure	2 bar ... 8 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)	55 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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Metals with more than 5% by mass of copper are excluded from use. Exceptions are printed circuit boards, cables, electrical plug connectors and coils
Ambient temperature	5 °C ... 60 °C
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	280 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	250 N
Mass moment of inertia	6.1 kgcm ²
Max. force on gripper jaw Fz static	250 N
Max. torque at gripper Mx static	24 Nm
Max. torque at gripper My static	24 Nm
Max. torque at gripper Mz static	24 Nm

Feature	Value
Lubrication interval for guide components	10 MioCyc
Max. mass per external gripper finger	250 g
Product weight	920 g
Type of mounting	Via female thread and dowel pin
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material cover cap	PA
Material housing	Hard anodised wrought aluminium alloy
Material gripper jaws	High-alloy stainless steel