

Three-point gripper DHDS-16-A

Part number: 1259491

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Size	16
Stroke per gripper jaws	2.5 mm
Max. replacement accuracy	≤0.2 mm
Max. angular gripper jaw backlash ax, ay	≤0.5 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 Hall sensor
Symbol	00991894
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	120 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	87 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)	26 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	42 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)	40 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	29 N
Mass moment of inertia	0.136 kgcm ²
Max. force on gripper jaw Fz static	50 N
Max. torque at gripper Mx static	2 Nm
Max. torque at gripper My static	2 Nm
Max. torque at gripper Mz static	2 Nm

Feature	Value
Lubrication interval for guide components	10 MioCyc
Max. mass per external gripper finger	50 g
Product weight	96 g
Type of mounting	Via female thread and dowel pin
Pneumatic connection	M3
Note on materials	RoHS-compliant
Material cover cap	PA
Material housing	Hard anodised wrought aluminium alloy
Material gripper jaws	High-alloy stainless steel