

# Three-point gripper DHDS-32-A

Part number: 1259493

FESTO



[PDF](#) General operating condition

## Data sheet

Feature	Value
Size	32
Stroke per gripper jaws	3.9 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)	405 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	345 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)	44 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	51 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)	135 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	115 N
Mass moment of inertia	0.79 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	150 N
Max. torque at gripper Mx static	9 Nm
Max. torque at gripper My static	9 Nm
Max. torque at gripper Mz static	9 Nm

<b>Feature</b>	<b>Value</b>
Lubrication interval for guide components	10 MioCyc
Max. mass per external gripper finger	150 g
Product weight	276 g
Type of mounting	Via female thread and dowel pin
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material cover cap	PA
Material housing	Hard anodised wrought aluminium alloy
Material gripper jaws	High-alloy stainless steel