

# Three-point gripper DHDS-50-A

Part number: 1259495

FESTO



[PDF](#) General operating condition

## Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	6 mm
Max. interchangeability	≤0.2 mm
Max. gripper jaw angular play ax, ay	≤0.2 deg
Max. gripper jaw backlash Sz	≤0.02 mm
Rotational symmetry	≤0.2 mm
Pneumatic gripper repetition accuracy	≤0.04 mm
Number of gripper jaws	3
Mounting position	Any
Mode of operation	Double-acting
Gripper function	3-point
Structural design	Lever Positively driven motion sequence
Position sensing	For proximity sensor
Symbol	00991894
Gripping force per gripper jaw at 6 bar, opening	840 N
Gripping force per gripper jaw at 6 bar, closing	750 N
Operating pressure	2 bar ... 8 bar
Max. operating frequency of pneumatic gripper	≤4 Hz
Min. opening time at 6 bar	62 ms
Min. closing time at 6 bar	55 ms
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
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. This excludes printed circuit boards, cables, electrical connectors and coils.
Ambient temperature	5 °C ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	280 N
Gripping force per gripper jaw at 6 bar, closing	250 N
Mass moment of inertia	6.1 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	250 N
Maximum torque on gripper jaw, Mx static	24 Nm
Maximum torque on gripper jaw, My static	24 Nm
Maximum torque on gripper jaw, Mz static	24 Nm

<b>Feature</b>	<b>Value</b>
Relubrication interval for guidance elements	10 MioCyc
Max. mass per external gripper finger	250 g
Product weight	920 g
Type of mounting	With internal thread and dowel pin
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover cap material	PA
Housing material	Wrought aluminum alloy, hard-anodized
Gripper jaw material	High-alloy stainless steel