

# Three-point gripper HGDD-80-A

Part number: 1163049

FESTO



[PDF](#) General operating condition

## Data sheet

Feature	Value
Size	80
Stroke per gripper jaw	12 mm
Max. interchangeability	≤0.2 mm
Max. gripper jaw angular play ax, ay	≤0.1 deg
Max. gripper jaw backlash Sz	≤0.05 mm
Rotational symmetry	≤0.2 mm
Pneumatic gripper repetition accuracy	≤0.05 mm
Number of gripper jaws	3
Mounting position	Any
Mode of operation	Double-acting
Gripper function	3-point
Structural design	Inclined plane Positively driven motion sequence
Position sensing	For proximity sensor
Symbol	00991894
Gripping force per gripper jaw at 6 bar, opening	2829 N
Gripping force per gripper jaw at 6 bar, closing	2745 N
Operating pressure	3 bar ... 8 bar
Operating pressure for sealing air	0 bar ... 0.5 bar
Max. operating frequency of pneumatic gripper	≤4 Hz
Min. opening time at 6 bar	152 ms
Min. closing time at 6 bar	142 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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Degree of protection	IP65
Ambient temperature	5 °C ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	943 N
Gripping force per gripper jaw at 6 bar, closing	915 N
Mass moment of inertia	70.22 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	3600 N
Maximum torque on gripper jaw, Mx static	100 Nm
Maximum torque on gripper jaw, My static	65 Nm
Maximum torque on gripper jaw, Mz static	75 Nm

<b>Feature</b>	<b>Value</b>
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	790 g
Product weight	3522 g
Type of mounting	Optionally: With through-hole and dowel pin With internal thread and dowel pin
Sealing air pneumatic connection	G1/8
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover cap material	High-alloy stainless steel
Housing material	Wrought aluminum alloy, smooth-anodized
Gripper jaw material	Hardened steel