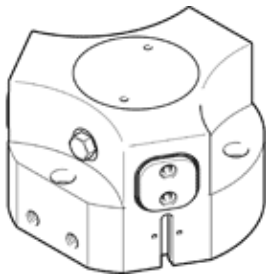


# Three-point gripper HGDD-80-A

Part number: 1163049

FESTO



## Data sheet

Feature	values
Size	80
Stroke per gripper jaw	12 mm
Max. replacement accuracy	$\leq 0.2$ mm
Max. angular gripper jaw backlash ax,ay	$\leq 0.1$ deg
Max. gripper jaw backlash Sz	$\leq 0.05$ mm
Rotationally symmetrical	$\leq 0.2$ mm
Repetition accuracy, gripper	$\leq 0.05$ mm
Number of gripper fingers	3
Assembly position	Any
Mode of operation	double-acting
Gripper function	3-point
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	2,829 N
Total force at 6 bar, closing	2,745 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 4$ Hz
Min. opening time at 6 bar	152 ms
Min. closing time at 6 bar	142 ms
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2
Ambient temperature	5 ... 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>
Max. force on gripper jaw Fz static	3,600 N
Max. torque at gripper Mx static	100 Nm
Max. torque at gripper My static	65 Nm
Max. torque at gripper Mz static	75 Nm
Lubrication interval for guide components	5 Mio SP
Max. ground per external gripper finger	790 g
Product weight	3,522 g
Mounting type	Optional With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection, sealing air	G1/8
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Materials information for cover cap	High alloy steel, non-corrosive
Materials information, housing	Wrought Aluminum alloy Smooth anodized
Materials information for gripper jaws	Steel Hardened