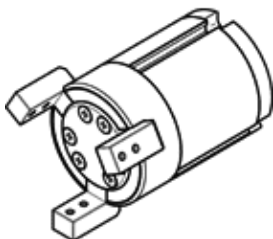


Three-point gripper HGD-50-A

Part number: 161838

FESTO

Self-centering, can be used as internal and external gripper. Magnetic piston for proximity position sensing.



Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	6 mm
Max. replacement accuracy	0.2 mm
Repetition accuracy, gripper	≤ 0.04 mm
Number of gripper fingers	3
Mode of operation	double-acting
Gripper function	3-point
Design structure	Lever
Position detection	For proximity sensor
Total force at 6 bar, opening	970 N
Total force at 6 bar, closing	880 N
Working pressure	2 ... 8 bar
Max. operating frequency of gripper	4 Hz
Min. opening time at 6 bar	10 ms
Min. closing time at 6 bar	10 ms
Operating medium	Filtered compressed air
Corrosion resistance classification CRC	2
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	323 N
Gripping force per gripper jaw at 6 bar, closing	293 N
Max. force on gripper jaw Fz dynamic	17.3 N
Max. force on gripper jaw Fz static	173 N
Max. torque at gripper Mx dynamic	0.047 Nm
Max. torque at gripper Mx static	4.7 Nm
Max. torque at gripper My dynamic	0.081 Nm
Max. torque at gripper My static	8.1 Nm
Max. torque at gripper Mz dynamic	0.053 Nm
Max. torque at gripper Mz static	5.3 Nm
Product weight	985 g
Mounting type	with internal (female) thread
Pneumatic connection	G1/8
Materials note	Free of copper and PTFE
Materials information for cover cap	POM
Materials information, housing	Aluminum Nickel plated
Materials information for gripper jaws	Tool steel Nickel plated