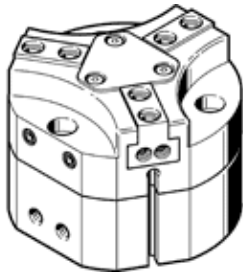


# three-point gripper HGDT-40-A-F-G1

Part number: 560184

FESTO

Sturdy, can be used as internal and external gripper, for position sensing. With gripping force retention when opening ...-G1.



## Data sheet

Feature	Value
Size	40
Stroke per gripper jaw	3 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	$\leq 0.03$ mm
Number of gripper fingers	3
Assembly position	Any
Mode of operation	double-acting
Gripper function	3-point
Gripper force back-up	On opening
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Operating pressure	4 ... 8 bar
Operating pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 4$ Hz
Min. opening time at 6 bar	63 ms
Min. closing time at 6 bar	190 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 - Moderate corrosion stress
Ambient temperature	5 ... 60 °C
Mass moment of inertia	5.59 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	800 N
Max. torque at gripper Mx static	30 Nm
Max. torque at gripper My static	20 Nm
Max. torque at gripper Mz static	25 Nm
Lubrication interval for guide components	5 Mio SP
Max. mass per external gripper finger	70 g
Product weight	840 g
Mounting type	With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection, sealing air	M5
Pneumatic connection	M5
Materials note	Free of copper and PTFE Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Wrought Aluminium alloy COMPCOTE coated
Material gripper jaws	Steel Hardened