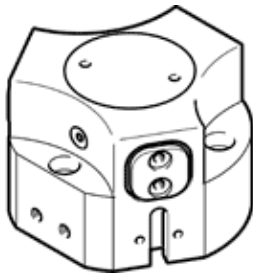


# three-point gripper HGDD-40-A

Part number: 1163040

FESTO



## Data sheet

Feature	Value
Size	40
Stroke per gripper jaw	6 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
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	648 N
Total force at 6 bar, closing	600 N
Operating pressure	3 ... 8 bar
Operating pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 4$ Hz
Min. opening time at 6 bar	78 ms
Min. closing time at 6 bar	106 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
Protection class	IP65
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	216 N
Gripping force per gripper jaw at 6 bar, closing	200 N
Mass moment of inertia	3.331 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	700 N
Max. torque at gripper Mx static	25 Nm
Max. torque at gripper My static	18 Nm
Max. torque at gripper Mz static	20 Nm
Lubrication interval for guide components	5 Mio SP
Max. mass per external gripper finger	130 g
Product weight	599 g
Mounting type	With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection, sealing air	M3
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 Smooth anodised
Material gripper jaws	Steel Hardened