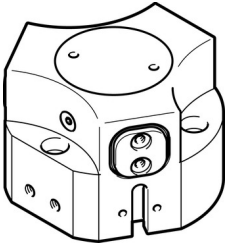


# Three-point gripper HGDD-40-A

Part number: 1163040

FESTO



## Data sheet

Feature	Value
Size	40
Stroke per gripper jaws	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
Short type code	HGDD
Number of gripper jaws	3
Mounting position	optional
Mode of operation	Double-acting
Gripper function	3-point
Design	Wedge-shaped drive Force pilot operated motion sequence
Position detection	Via proximity switch
Symbol	00991894
Total gripper force, opening, 6 bar	648 N
Total gripper force, closing, 6 bar	600 N
Operating pressure	3 bar ... 8 bar
Operating pressure of blocked air	0 bar ... 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 to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	2 - Moderate corrosion stress
Degree of protection	IP65
Ambient temperature	5 °C ... 60 °C
Gripper force per gripper jaw, opening, 6 bar	216 N
Gripper force per gripper jaw, closing, 6 bar	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

Feature	Value
Lubrication interval for guide components	5 MioCyc
Max. mass per external gripper finger	130 g
Product weight	599 g
Type of mounting	Either: Via through-hole and dowel pin Via female thread and dowel pin
Pneumatic connection, blocked air	M3
Pneumatic connection	M5
Note on materials	Copper/PTFE-free RoHS-compliant
Material cover cap	High-alloy stainless steel
Material housing	Wrought aluminium alloy Smooth anodised
Material gripper jaws	Steel Hardened