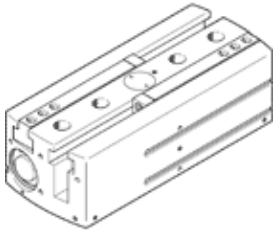


# Parallel gripper HGPL-40-100-A-B

Part number: 3361491

FESTO



## Data sheet

Feature	Value
Size	40
Stroke per gripper jaw	100 mm
Max. replacement accuracy	< 0.2 mm
Max. angular gripper jaw backlash ax,ay	< 0.2 deg
Max. gripper jaw backlash Sz	< 0.05 mm
Rotationally symmetrical	<= 0.2 mm
Repetition accuracy, gripper	< 0.03 mm
Number of gripper fingers	2
Drive system	pneumatic
Assembly position	Any
Mode of operation	double-acting
Gripper function	Parallel
Gripper force back-up	No
Design structure	twin piston Guide Piston slide T-shaped Rack and pinion
Position detection	For proximity sensor
Total gripping force at 0.6 MPa (6 bar, 87 psi), opening	1,038 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	1,216 N
Working pressure	3 ... 8 bar
Max. operating frequency of gripper	< 1 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	620 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	690 ms
Max. mass per external gripper finger	420 g
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
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	519 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	608 N
Mass moment of inertia	318.25 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	2,500 N
Max. torque at gripper Mx static	125 Nm
Max. torque at gripper My static	80 Nm
Max. torque at gripper Mz static	100 Nm
Lubrication interval for guide components	5 Mio SP
Product weight	5,340 g
Mounting type	Internal thread and centering sleeve With through-hole and centering sleeve
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material housing	Smooth-anodised wrought aluminium alloy
Material gripper jaws	Steel, hardened