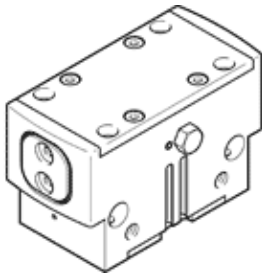


# Parallel gripper HGPD-50-A

Part number: 1132951

FESTO



## Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	12 mm
Max. replacement accuracy	$\leq 0.2$ mm
Max. angular gripper jaw backlash ax,ay	$\leq 0.1$ deg
Max. gripper jaw backlash Sz	$\leq 0.02$ mm
Rotationally symmetrical	$\leq 0.2$ mm
Repetition accuracy, gripper	$\leq 0.05$ 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	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total gripping force at 0.6 MPa (6 bar, 87 psi), opening	944 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	894 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 2$ Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	90 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	100 ms
Max. mass per external gripper finger	318 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-B2-L
Protection class	IP65
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	472 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	447 N
Mass moment of inertia	26.19 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	2,000 N
Max. torque at gripper Mx static	90 Nm
Max. torque at gripper My static	60 Nm
Max. torque at gripper Mz static	50 Nm
Lubrication interval for guide components	5,000,000 Mio SP
Product weight	1,766 g
Mounting type	Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin Optional
Pneumatic connection, sealing air	M5

<b>Feature</b>	<b>Value</b>
Pneumatic connection	G1/8
Materials note	Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Anodised aluminium
Material gripper jaws	Steel, hardened