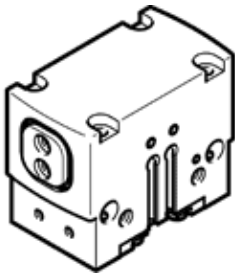


# Parallel gripper HGPD-20-A

Part number: 1132939

FESTO



## Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	4 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	$\leq 0.04$ 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	159 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	150 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	$\leq 3$ Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	28 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	31 ms
Max. mass per external gripper finger	57 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
RSBP classification to CD-0033	F5
Protection class	IP65
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	80 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	75 N
Mass moment of inertia	0.4 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	250 N
Max. torque at gripper Mx static	12 Nm
Max. torque at gripper My static	7 Nm
Max. torque at gripper Mz static	6 Nm
Lubrication interval for guide components	5,000,000 Mio SP
Product weight	163 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

<b>Feature</b>	<b>Value</b>
Pneumatic connection, sealing air	M3
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cover cap	High alloy steel, non-corrosive
Material housing	Anodised aluminium
Material gripper jaws	Steel, hardened