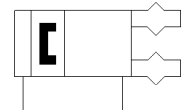
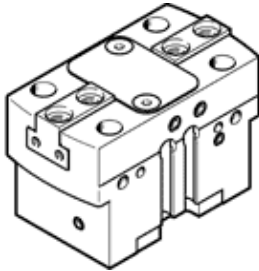


# parallel gripper HGPT-20-A-B-F

Part number: 560201

FESTO

sturdy high-power variant.



## Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	2 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	344 N
Total gripping force at 0.6 MPa (6 bar, 87 psi), closing	322 N
Operating pressure	3 ... 8 bar
Operating 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	50 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
Protection class	IP40
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening	172 N
Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing	161 N
Mass moment of inertia	0.344 kgcm <sup>2</sup>
Max. force on gripper jaw Fz static	700 N
Max. torque at gripper Mx static	15 Nm
Max. torque at gripper My static	15 Nm
Max. torque at gripper Mz static	8 Nm
Lubrication interval for guide components	5 Mio SP
Product weight	135 g
Mounting type	Internal thread and centring sleeve With through-hole and centring sleeve With through-hole and dowel pin With internal thread and dowel pin

Feature	Value
	Optional
Pneumatic connection, sealing air	M5
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