

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

Part number: 560201

FESTO



## Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	2 mm
Max. interchangeability	0.2 mm
Max. gripper jaw angular play ax, ay	0.1 deg
Max. gripper jaw backlash Sz	0.02 mm
Rotational symmetry	0.2 mm
Pneumatic gripper repetition accuracy	0.04 mm
Number of gripper jaws	2
Actuator system	Pneumatic
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Parallel
Gripping force backup	Without
Structural design	Inclined plane Positively driven motion sequence
Position sensing	For proximity sensor
Operating pressure	3 bar...8 bar
Operating pressure for sealing air	0 bar...0.5 bar
Max. operating frequency of pneumatic gripper	3 Hz
Min. opening time at 6 bar	28 ms
Min. closing time at 6 bar	31 ms
Max. mass per external gripper finger	50 g
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Degree of protection	IP40
Ambient temperature	5 °C...60 °C
Gripping force per gripper jaw at 6 bar, opening	344 N 172 N
Gripping force per gripper jaw at 6 bar, closing	322 N 161 N

Feature	Value
Mass moment of inertia	0.344 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	700 N
Maximum torque on gripper jaw, Mx static	15 Nm
Maximum torque on gripper jaw, My static	15 Nm
Maximum torque on gripper jaw, Mz static	8 Nm
Relubrication interval for guidance elements	5 MioCyc
Product weight	135 g
Type of mounting	With internal thread and centering sleeve Via through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin Optionally:
Sealing air pneumatic connection	M5
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover cap material	High-alloy stainless steel
Housing material	Aluminum, anodized
Gripper jaw material	Hardened steel