

# Parallel gripper HGPT-50-A-B-F

Part number: 560225

FESTO



## Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	6 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	≤0.05 mm
Type code	HGPT
Number of gripper jaws	2
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Parallel
Design	Inclined plane Positively driven motion sequence
Position sensing	For proximity sensor
Symbol	00991894
Total gripping force at 6 bar, opening	2370 N
Total gripping force at 6 bar, closing	2226 N
Operating pressure	3 bar ... 8 bar
Operating pressure for sealing air	0 bar ... 0.5 bar
Max. operating frequency of pneumatic gripper	≤2 Hz
Min. opening time at 6 bar	83 ms
Min. closing time at 6 bar	82 ms
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
Degree of protection	IP40
Ambient temperature	5 °C ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	1185 N
Gripping force per gripper jaw at 6 bar, closing	1113 N
Mass moment of inertia	19.488 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	3200 N
Maximum torque on gripper jaw, Mx static	120 Nm
Maximum torque on gripper jaw, My static	120 Nm
Maximum torque on gripper jaw, Mz static	100 Nm
Relubrication interval for guidance elements	5 MioCyc

Feature	Value
Max. mass per external gripper finger	640 g
Product weight	1400 g
Type of mounting	Optionally: With internal thread and centering sleeve Via through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin
Sealing air pneumatic connection	M5
Pneumatic connection	G1/8
Note on materials	Free of copper and PTFE RoHS-compliant
Cover cap material	High-alloy stainless steel
Housing material	Aluminum Anodized
Gripper jaw material	Steel Hardened