

Parallel gripper HGPT-80-A-B-F-G2

Part number: 560239

FESTO



 General operating condition

Data sheet

Feature	Value
Size	80
Stroke per gripper jaw	12.5 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
Number of gripper jaws	2
Actuator system	Pneumatic
Mounting position	Any
Mode of operation	Double-acting
Gripper function	Parallel
Gripping force backup	During closing
Structural design	Positively driven motion sequence
Position sensing	For proximity sensor
Symbol	00991895
Operating pressure	4 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	362 ms
Min. closing time at 6 bar	178 ms
Max. mass per external gripper finger	1830 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
Mass moment of inertia	238.336 kgcm ²
Maximum force on gripper jaw Fz, static	7000 N
Maximum torque on gripper jaw, Mx static	180 Nm
Maximum torque on gripper jaw, My static	220 Nm
Maximum torque on gripper jaw, Mz static	170 Nm
Relubrication interval for guidance elements	5 MioCyc
Product weight	6287 g

Feature	Value
Type of mounting	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	G1/4
Note on materials	RoHS-compliant
Cover cap material	High-alloy stainless steel
Housing material	Aluminum, anodized
Gripper jaw material	Hardened steel