

Parallel gripper HGPP-16-A

Part number: 187870

FESTO



[PDF](#) General operating condition

Data sheet

Feature	Value
Size	16
Stroke per gripper jaw	5 mm
Max. interchangeability	0.1 mm
Max. gripper jaw angular play ax, ay	0 deg
Max. gripper jaw backlash Sz	0 mm
Rotational symmetry	0.05 mm
Pneumatic gripper repetition accuracy	≤0.02 mm
Number of gripper jaws	2
Actuator system	Pneumatic
Mode of operation	Double-acting
Gripper function	Parallel
Gripping force backup	Without
Structural design	Gear rack/pinion
Position sensing	For Hall sensor For inductive proximity sensors
Symbol	00991894
Operating pressure	2 bar ... 8 bar
Max. operating frequency of pneumatic gripper	4 Hz
Min. opening time at 6 bar	40 ms
Min. closing time at 6 bar	53 ms
Max. mass per external gripper finger	150 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-B2-L
Ambient temperature	5 °C ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	204 N
Gripping force per gripper jaw at 6 bar, closing	204 N
Gripping force per gripper jaw at 6 bar, opening	102 N
Gripping force per gripper jaw at 6 bar, closing	102 N
Mass moment of inertia	2.39 kgcm ²
Maximum force on gripper jaw Fz, static	130 N
Maximum torque on gripper jaw, Mx static	7 Nm
Maximum torque on gripper jaw, My static	7 Nm
Maximum torque on gripper jaw, Mz static	7 Nm

Feature	Value
Product weight	315 g
Type of mounting	With internal thread
Pneumatic connection	M5
Note on materials	RoHS-compliant
Cover cap material	POM
Housing material	Wrought aluminum alloy, hard-anodized
Gripper jaw material	Wrought aluminum alloy, nickel-plated