

# Parallel gripper HGPP-20-A

Part number: 187873

FESTO



[PDF](#) General operating condition

## Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	7.5 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	44 ms
Min. closing time at 6 bar	59 ms
Max. mass per external gripper finger	200 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	340 N
Gripping force per gripper jaw at 6 bar, closing	340 N
Gripping force per gripper jaw at 6 bar, opening	170 N
Gripping force per gripper jaw at 6 bar, closing	170 N
Mass moment of inertia	6.22 kgcm <sup>2</sup>
Maximum force on gripper jaw Fz, static	220 N
Maximum torque on gripper jaw, Mx static	14 Nm
Maximum torque on gripper jaw, My static	14 Nm
Maximum torque on gripper jaw, Mz static	14 Nm

<b>Feature</b>	<b>Value</b>
Product weight	604 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