

Three-point gripper HGDT-63-A-F

Part number: 560189

FESTO



Data sheet

Feature	Value
Size	63
Stroke per gripper jaw	5 mm
Max. interchangeability	≤0.2 mm
Max. gripper jaw angular play ax, ay	≤0.1 deg
Max. gripper jaw backlash Sz	≤0.05 mm
Rotational symmetry	≤0.2 mm
Pneumatic gripper repetition accuracy	≤0.03 mm
Type code	HGDT
Number of gripper jaws	3
Mounting position	Any
Mode of operation	Double-acting
Gripper function	3-point
Design	Inclined plane Positively driven motion sequence
Position sensing	For proximity sensor
Symbol	00991894
Total gripping force at 6 bar, opening	3372 N
Total gripping force at 6 bar, closing	2592 N
Operating pressure	3 bar ... 8 bar
Operating pressure for sealing air	0 bar ... 0.5 bar
Max. operating frequency of pneumatic gripper	≤4 Hz
Min. opening time at 6 bar	163 ms
Min. closing time at 6 bar	162 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
Ambient temperature	5 °C ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	1124 N
Gripping force per gripper jaw at 6 bar, closing	864 N
Mass moment of inertia	28.77 kgcm ²
Maximum force on gripper jaw Fz, static	2500 N
Maximum torque on gripper jaw, Mx static	80 Nm
Maximum torque on gripper jaw, My static	50 Nm
Maximum torque on gripper jaw, Mz static	60 Nm
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	250 g

Feature	Value
Product weight	1873 g
Type of mounting	Optionally: 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	Wrought aluminum alloy COMPCOTE-coated
Gripper jaw material	Steel Hardened