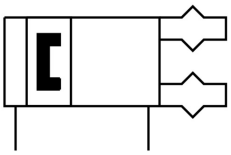
Three-point gripper
HGDT-40-A-F

Part number: 560183





Data sheet

Feature	Value
Size	40
Stroke per gripper jaw	3 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	1101 N
Total gripping force at 6 bar, closing	990 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	48 ms
Min. closing time at 6 bar	49 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	367 N
Gripping force per gripper jaw at 6 bar, closing	330 N
Mass moment of inertia	4.37 kgcm²
Maximum force on gripper jaw Fz, static	800 N
Maximum torque on gripper jaw, Mx static	30 Nm
Maximum torque on gripper jaw, My static	20 Nm
Maximum torque on gripper jaw, Mz static	25 Nm
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	70 g

Feature	Value
Product weight	712 g
Type of mounting	With through-hole and dowel pin With internal thread and dowel pin Optionally:
Sealing air pneumatic connection	M5
Pneumatic connection	M5
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