Three-point gripper
HGDT-50-A-G2

Part number: 540870





Data sheet

Feature	Value
Size	50
Stroke per gripper jaw	8 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
Gripping force backup	During closing
Design	Positively driven motion sequence Inclined plane
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	≤4 Hz
Min. opening time at 6 bar	61 ms
Min. closing time at 6 bar	70 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
Mass moment of inertia	13.92 kgcm²
Maximum force on gripper jaw Fz, static	1500 N
Maximum torque on gripper jaw, Mx static	50 Nm
Maximum torque on gripper jaw, My static	30 Nm
Maximum torque on gripper jaw, Mz static	40 Nm
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	160 g
Product weight	1440 g

Feature	Value
Type of mounting	With through-hole and dowel pin With internal thread and dowel pin Optionally:
Sealing air pneumatic connection	M5
Pneumatic connection	G1/8
Note on materials	Free of copper and PTFE
Cover cap material	High-alloy stainless steel
Housing material	Wrought aluminum alloy COMPCOTE-coated
Gripper jaw material	Steel Hardened