Three-point gripper
HGDT-25-A-G2
Part number: 540861

📄 General operating condition

Data sheet

Feature	Value
Size	25
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
Number of gripper jaws	3
Mounting position	Any
Mode of operation	Double-acting
Gripper function	3-point
Gripping force backup	During closing
Structural design	Inclined plane Positively driven motion sequence
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	33 ms
Min. closing time at 6 bar	25 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
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	5 °C … 60 °C
Mass moment of inertia	0.5 kgcm²
Maximum force on gripper jaw Fz, static	350 N
Maximum torque on gripper jaw, Mx static	7 Nm
Maximum torque on gripper jaw, My static	10 Nm
Maximum torque on gripper jaw, Mz static	5 Nm
Relubrication interval for guidance elements	5 MioCyc
Max. mass per external gripper finger	10 g
Product weight	203 g

Feature	Value
Type of mounting	Optionally: With through-hole and dowel pin With internal thread and dowel pin
Sealing air pneumatic connection	M5
Pneumatic connection	M5
Cover cap material	High-alloy stainless steel
Housing material	Wrought aluminum alloy COMPCOTE-coated
Gripper jaw material	Hardened steel