Three-point gripper
HGDD-80-A-G2

Part number: 1163051



Data sheet

Feature	Value
Size	80
Stroke per gripper jaw	12 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	0.05 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	Via proximity switch
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	159 ms
Min. closing time at 6 bar	107 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-B2-L
Degree of protection	IP65
Ambient temperature	5 °C...60 °C
Mass moment of inertia	109 kgcm²
Maximum force on gripper jaw Fz, static	3600 N
Maximum torque on gripper jaw, Mx static	100 Nm
Maximum torque on gripper jaw, My static	65 Nm
Maximum torque on gripper jaw, Mz static	75 Nm
Relubrication interval for guidance elements	5 MioCyc

Feature	Value
Max. mass per external gripper finger	790 g
Product weight	4788 g
Type of mounting	Alternatively: With through-hole and dowel pin With internal thread and dowel pin
Sealing air pneumatic connection	G1/8
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Cover cap material	high-alloy stainless steel
Housing material	Wrought aluminum alloy, smooth-anodized
Gripper jaw material	Hardened steel