

Three-point gripper HGDD-35-A

Part number: 1163037

FESTO



Data sheet

Feature	values
Size	35
Stroke per gripper jaw	4 mm
Max. replacement accuracy	≤ 0.2 mm
Max. angular gripper jaw backlash ax,ay	≤ 0.1 deg
Max. gripper jaw backlash Sz	≤ 0.05 mm
Rotationally symmetrical	≤ 0.2 mm
Repetition accuracy, gripper	≤ 0.03 mm
Number of gripper fingers	3
Assembly position	Any
Mode of operation	double-acting
Gripper function	3-point
Design structure	Inclined plane guided motion sequence
Position detection	For proximity sensor
Total force at 6 bar, opening	366 N
Total force at 6 bar, closing	336 N
Working pressure	3 ... 8 bar
Working pressure, sealing air	0 ... 0.5 bar
Max. operating frequency of gripper	≤ 4 Hz
Min. opening time at 6 bar	44 ms
Min. closing time at 6 bar	52 ms
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	2
Ambient temperature	5 ... 60 °C
Gripping force per gripper jaw at 6 bar, opening	122 N
Gripping force per gripper jaw at 6 bar, closing	112 N
Mass moment of inertia	1.01 kgcm ²
Max. force on gripper jaw Fz static	300 N
Max. torque at gripper Mx static	12 Nm
Max. torque at gripper My static	8 Nm
Max. torque at gripper Mz static	8 Nm
Lubrication interval for guide components	5 Mio SP
Max. ground per external gripper finger	57 g
Product weight	309 g
Mounting type	Optional With through-hole and dowel pin With internal thread and dowel pin
Pneumatic connection, sealing air	M3
Pneumatic connection	M5
Materials note	Free of copper and PTFE Conforms to RoHS
Materials information for cover cap	High alloy steel, non-corrosive
Materials information, housing	Wrought Aluminum alloy Smooth anodized
Materials information for gripper jaws	Steel Hardened