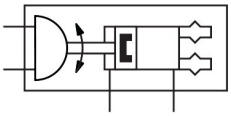
Swivel/gripper unit
HGDS-PP-20-P1-A-B

Part number: 1187962





Data sheet

Feature	Value
Size	20
Adjustment range of swivel angle	0 deg...210 deg
Stroke per gripper jaw	7 mm
Max. gripper jaw angular play ax, ay	0.1 deg
Max. gripper jaw backlash Sz	0.02 mm
Swivel angle	210 deg
Pneumatic gripper repetition accuracy	0.015 mm
Repetition accuracy of swivel angle	0.02 deg
Number of gripper jaws	2
Quarter turn actuator cushioning	Elastic cushioning rings/pads at both ends, adjustable end positions, with fixed stop
Cushioning	Elastic cushioning rings/pads at both ends with fixed stop
Cushioning adjustment range	2.8 mm
Mounting position	Any
Quarter turn actuator fine tuning	-6 deg
Mode of operation	Double-acting
Gripper function	Parallel
Structural design	Quarter turn actuator with parallel gripper and gripper actuator
Position sensing, pneumatic gripper	With proximity switch
Quarter turn actuator position sensing	With proximity switch
Operating pressure	3 bar...8 bar
Max. operating frequency of pneumatic gripper	4 Hz
Max. swivel frequency at 6 bar	2 Hz
Min. opening time at 6 bar	60 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
LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature	5 °C...60 °C
Gripping force per gripper jaw at 6 bar, opening	96 N

Feature	Value
	192 N
Gripping force per gripper jaw at 6 bar, closing	84 N 168 N
Maximum force on gripper jaw Fz, static	250 N
Maximum torque on gripper jaw, Mx static	22 Nm
Maximum torque on gripper jaw, My static	22 Nm
Maximum torque on gripper jaw, Mz static	22 Nm
Theoretical torque at 6 bar	2.5 Nm
Product weight	1260 g
Max. mass per external gripper finger	100 g
Max. mass per external gripper finger, throttled	100 g
Type of mounting	Alternatively: With internal thread and centering sleeve Via through-hole and centering sleeve With dovetail slot
Pneumatic connection	M5
Note on materials	RoHS compliant
Drive shaft material	Steel
Cover material	Aluminum POM
Seals material	NBR
Housing material	Wrought aluminum alloy
Gripper jaw material	high-alloy stainless steel