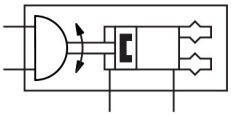
Swivel/gripper unit
HGDS-PP-12-P1-A-B

Part number: 1187956



Data sheet

Feature	Value
Size	12
Rotation angle adjustment range	0 deg...210 deg
Stroke per gripper jaws	2.5 mm
Max. angular gripper jaw backlash ax, ay	0.1 deg
Max. gripper jaw backlash Sz	0.02 mm
Swivel angle	210 deg
Repetition accuracy, gripper	0.01 mm
Repetition accuracy of swivel angle	0.02 deg
Number of gripper jaws	2
Cushioning of swivel drive	Elastic cushioning rings/plates at both ends, end positions adjustable, with fixed stop
Cushioning	Elastic cushioning rings/pads at both ends with fixed stop
Cushioning adjustment range	2 mm
Mounting position	Any
Fine adjustment of swivel drive	-6 deg
Mode of operation	Double-acting
Gripper function	Parallel
Design	Quarter turn actuator With parallel gripper and gripper drive
Position detection, gripper	with proximity switch
Position detection, swivel drive	with proximity switch
Operating pressure	3 bar...8 bar
Max. operating frequency of gripper	4 Hz
Max. swivel frequency at 0.6 MPa (6 bar, 87 psi)	2 Hz
Min. opening time at 0.6 MPa (6 bar, 87 psi)	40 ms
Min. closing time at 0.6 MPa (6 bar, 87 psi)	60 ms
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Ambient temperature	5 °C...60 °C

Feature	Value
Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi)	42 N
Total gripping force, opening, 0.6MPa (6bar, 87 psi)	84 N
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	37 N
Total gripping force, closing, 0.6MPa (6bar, 87 psi)	74 N
Max. force on gripper jaw Fz static	90 N
Max. torque at gripper Mx static	6 Nm
Max. torque at gripper My static	6 Nm
Max. torque at gripper Mz static	6 Nm
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	0.85 Nm
Product weight	505 g
Max. mass per external gripper finger	30 g
Max. mass per external gripper finger, throttled	100 g
Type of mounting	Either: Via female thread and centring sleeve Via through-hole and centring sleeve Via dovetail slot
Pneumatic connection	M5
Note on materials	RoHS compliant
Material drive shaft	Steel
Material cover	Aluminium POM
Material seals	NBR
Material housing	Wrought aluminium alloy
Material gripper jaws	High-alloy stainless steel