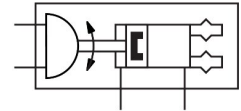


Swivel/gripper unit HGDS-PP-16-P-A-B

Part number: 1187958

FESTO



Data sheet

| Feature | Value |
|---|--|
| Size | 16 |
| Rotation angle adjustment range | 0 deg...210 deg |
| Stroke per gripper jaws | 4.5 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 | 0.2 deg |
| Number of gripper jaws | 2 |
| Cushioning of swivel drive | Elastic cushioning rings/plates at both ends |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Cushioning adjustment range | 2.6 mm |
| Mounting position | optional |
| Fine adjustment of swivel drive | -6 deg |
| Mode of operation | Double-acting |
| Gripper function | Parallel |
| Design | Semi-rotary drive With parallel gripper and gripper drive |
| Position detection, gripper | Via proximity switch |
| Position detection, swivel drive | Via 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 |
| Gripper force per gripper jaw, opening, 0.6 MPa (6 bar, 87 psi) | 58 N |

| Feature | Value |
|---|---|
| Total gripping force, opening, 0.6MPa (6bar, 87 psi) | 116 N |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 51 N |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi) | 102 N |
| Max. force on gripper jaw Fz static | 150 N |
| Max. torque at gripper Mx static | 11 Nm |
| Max. torque at gripper My static | 11 Nm |
| Max. torque at gripper Mz static | 11 Nm |
| Theoretical torque at 0.6 MPa (6 bar, 87 psi) | 1.25 Nm |
| Product weight | 730 g |
| Max. mass per external gripper finger | 50 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 |