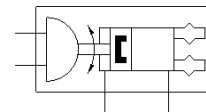
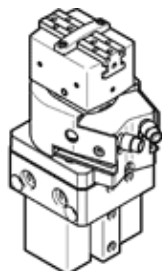


# swivel/gripper unit HGDS-PP-12-P1-A-B

Part number: 1187956

**FESTO**

with elastic cushioning and fixed stop.



## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 12   |
| Rotation angle adjustment range                                   | 0 ... 210 deg  |
| Stroke per gripper jaw  | 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  |
| Number of gripper fingers   | 2  |
| Cushioning of swivel drive  | Elastic cushioning rings/pads at both ends, end positions adjustable, with fixed stop                          |
| Assembly position   | Any  |
| Fine adjustment of swivel drive                                   | -6 deg   |
| Mode of operation   | double-acting  |
| Gripper function  | Parallel   |
| Design structure  | Swivel drive<br>With parallel gripper and gripper drive  |
| Position detection, gripper                                       | with proximity sensor  |
| Position detection, swivel drive                                  | with proximity sensor  |
| Operating pressure  | 3 ... 8 bar  |
| 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 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 - Moderate corrosion stress  |
| PWIS conformity   | VDMA24364-B2-L   |
| Ambient temperature   | 5 ... 60 °C  |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) opening | 42 N   |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), opening          | 84 N   |
| Gripping force per gripper jaw at 0.6 MPa (6 bar, 87 psi) closing | 37 N   |
| Total gripping force at 0.6 MPa (6 bar, 87 psi), closing          | 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   |
| Mounting type   | Internal thread and centring sleeve<br>With through-hole and centring sleeve<br>With dovetail slot<br>Optional |
| Pneumatic connection  | M5   |
| Materials note  | Conforms to RoHS   |

| Feature                 | Value                           |
|-------------------------|---------------------------------|
| Material of drive shaft | Steel                           |
| Material cover          | Aluminium<br>POM                |
| Material seals          | NBR                             |
| Material housing        | Wrought Aluminium alloy         |
| Material gripper jaws   | High alloy steel, non-corrosive |