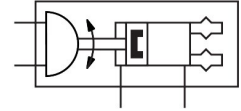
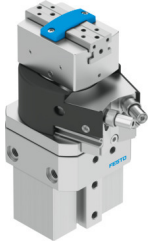


# Swivel/gripper unit HGDS-PP-16-YSRT-A-B

FESTO

Part number: 1187960



 General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 16   |
| Adjustment range of swivel angle                 | 0 deg ... 210 deg  |
| Stroke per gripper jaw                           | 4.5 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            | 0.01 mm  |
| Repetition accuracy of swivel angle              | 0.02 deg   |
| Number of gripper jaws                           | 2  |
| Quarter turn actuator cushioning                 | Pneumatic shock absorber at both ends                              |
| Cushioning                                       | Shock absorber at both ends, self-adjusting, with metal fixed stop |
| Cushioning adjustment range                      | 1.3 mm   |
| Mounting position                                | Any  |
| Quarter turn actuator fine tuning                | -2.5 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  |
| Symbol   | 00991893   |
| Operating pressure                               | 3 bar ... 8 bar  |
| Max. operating frequency of pneumatic gripper    | 4 Hz   |
| Max. swivel frequency at 6 bar                   | 1.5 Hz   |
| Min. opening time at 6 bar                       | 40 ms  |
| Min. closing time at 6 bar                       | 60 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 | 58 N   |
| Gripping force per gripper jaw at 6 bar, opening | 116 N  |
| Gripping force per gripper jaw at 6 bar, closing | 51 N   |
| Gripping force per gripper jaw at 6 bar, closing | 102 N  |
| Maximum force on gripper jaw Fz, static          | 150 N  |

| Feature  | Value  |
|--|--|
| Maximum torque on gripper jaw, Mx static         | 11 Nm  |
| Maximum torque on gripper jaw, My static         | 11 Nm  |
| Maximum torque on gripper jaw, Mz static         | 11 Nm  |
| Theoretical torque at 6 bar                      | 1.25 Nm  |
| Product weight                                   | 730 g  |
| Max. mass per external gripper finger            | 50 g   |
| Max. mass per external gripper finger, throttled | 200 g  |
| Type of mounting                                 | Alternatively:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve<br>With dovetail slot |
| Pneumatic connection                             | M5   |
| Note on materials                                | RoHS compliant   |
| Drive shaft material                             | Steel  |
| Cover material                                   | Aluminum<br>POM  |
| Seals material                                   | NBR  |
| Housing material                                 | Wrought aluminum alloy   |
| Gripper jaw material                             | high-alloy stainless steel   |