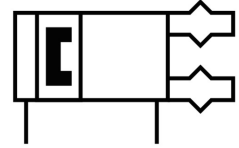
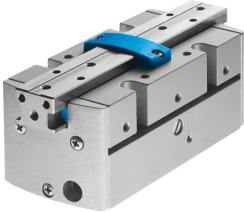


# Parallel gripper HGPP-12-A

Part number: 187867

FESTO



 General operating condition

## Data sheet

| Feature                                                         | Value                                                                                      |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Size                                                            | 12                                                                                         |
| Stroke per gripper jaws                                         | 2.5 mm                                                                                     |
| Max. replacement accuracy                                       | 0.1 mm                                                                                     |
| Repetition accuracy, gripper                                    | ≤0.02 mm                                                                                   |
| Number of gripper jaws                                          | 2                                                                                          |
| Drive system                                                    | Pneumatic                                                                                  |
| Mode of operation                                               | Double-acting                                                                              |
| Gripper function                                                | Parallel                                                                                   |
| Gripper force back-up                                           | None                                                                                       |
| Design                                                          | Rack and pinion                                                                            |
| Position detection                                              | Via Hall sensor<br>Via inductive sensors                                                   |
| Symbol                                                          | 00991894                                                                                   |
| Total gripping force, opening, 0.6MPa (6bar, 87 psi)            | 116 N                                                                                      |
| Total gripping force, closing, 0.6MPa (6bar, 87 psi)            | 116 N                                                                                      |
| Operating pressure                                              | 2 bar ... 8 bar                                                                            |
| Max. operating frequency of gripper                             | 4 Hz                                                                                       |
| Min. opening time at 0.6 MPa (6 bar, 87 psi)                    | 27 ms                                                                                      |
| Min. closing time at 0.6 MPa (6 bar, 87 psi)                    | 40 ms                                                                                      |
| Max. mass per external gripper finger                           | 100 g                                                                                      |
| 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                                                                                       |
| Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi) | 58 N                                                                                       |
| Max. force on gripper jaw Fz static                             | 70 N                                                                                       |
| Max. torque at gripper Mx static                                | 3 Nm                                                                                       |
| Max. torque at gripper My static                                | 3 Nm                                                                                       |
| Max. torque at gripper Mz static                                | 3 Nm                                                                                       |
| Product weight                                                  | 172 g                                                                                      |
| Type of mounting                                                | Via female thread                                                                          |
| Pneumatic connection                                            | M3                                                                                         |

| Feature               | Value                                  |
|-----------------------|----------------------------------------|
| Note on materials     | RoHS-compliant                         |
| Material cover cap    | POM                                    |
| Material housing      | Hard anodised wrought aluminium alloy  |
| Material gripper jaws | Wrought aluminium alloy, nickel-plated |