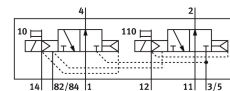
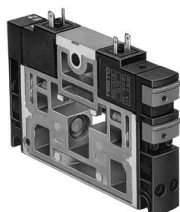


# Solenoid valve

## CPV18-M1H-2X3-OLS-1/4

Part number: 163188

**FESTO**



## Data sheet

| Feature                                               | Value                                     |
|-------------------------------------------------------|-------------------------------------------|
| Valve function                                        | 2x3/2-way, open, monostable               |
| Type of actuation                                     | Electric                                  |
| Valve size                                            | 18 mm                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 1600 l/min                                |
| pneumatic working port                                | G1/4                                      |
| Operating voltage                                     | 24V DC                                    |
| Operating pressure                                    | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar    |
| Design                                                | Piston gate valve                         |
| Type of reset                                         | Pneumatic spring                          |
| Approval                                              | C-Tick                                    |
| Degree of protection                                  | IP65                                      |
| Nominal size                                          | 8 mm                                      |
| Exhaust-air function                                  | Without flow control option               |
| Sealing principle                                     | Soft                                      |
| Mounting position                                     | optional                                  |
| Manual override                                       | Detenting<br>Non-detenting                |
| Type of piloting                                      | Pilot actuated                            |
| Pilot air supply                                      | External<br>Internal                      |
| Flow direction                                        | Non-reversible                            |
| lap                                                   | Overlap                                   |
| Pilot pressure                                        | 0.3 MPa...0.8 MPa<br>3 bar...8 bar        |
| b value                                               | 0.38                                      |
| C value                                               | 6.3 l/sbar                                |
| Switching time off                                    | 24 ms                                     |
| Switching time on                                     | 18 ms                                     |
| Duty cycle                                            | 100%                                      |
| Electrical power consumption                          | 1.5 W                                     |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4] |

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| 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-B1/B2-L                                                                          |
| Storage temperature                | -20 °C...40 °C                                                                             |
| Media temperature                  | -5 °C...50 °C                                                                              |
| Ambient temperature                | -5 °C...50 °C                                                                              |
| Product weight                     | 260 g                                                                                      |
| Type of mounting                   | With through-hole                                                                          |
| Pilot air port 12/14               | Common line                                                                                |
| Pilot exhaust port 82/84           | Common line                                                                                |
| Pneumatic connection, port 1       | Common line                                                                                |
| Pneumatic connection, port 11      | Common line                                                                                |
| Pneumatic connection, port 2       | G1/4                                                                                       |
| Pneumatic connection 3/5 combined  | Common line                                                                                |
| Pneumatic connection, port 4       | G1/4                                                                                       |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | HNBR<br>NBR                                                                                |
| Material housing                   | Die-cast aluminium<br>Brass<br>POM<br>PPS<br>Steel                                         |