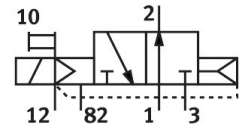


# Basic valve CPE18-P1-3OLS-1/4

Part number: 550166

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 3/2 open, monostable                                                                       |
| Type of actuation                                     | Via pilot interface to ISO 15218                                                           |
| Construction width                                    | 18 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 1700 l/min                                                                                 |
| pneumatic working port                                | G1/4                                                                                       |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                                        |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                                        |
| Design                                                | Piston gate valve                                                                          |
| Type of reset                                         | Pneumatic spring                                                                           |
| Approval                                              | c UL us - Recognized (OL)                                                                  |
| Maritime classification                               | See certificate                                                                            |
| CE mark (see declaration of conformity)               | To EU Low Voltage Directive                                                                |
| UKCA marking (see declaration of conformity)          | To UK regulations for electrical equipment                                                 |
| Certificate issuing authority                         | DNV-TAA000032X<br>UL MH19482                                                               |
| Nominal size                                          | 8 mm                                                                                       |
| Sealing principle                                     | Soft                                                                                       |
| Mounting position                                     | optional                                                                                   |
| Manual override                                       | Non-detenting                                                                              |
| Type of piloting                                      | Pilot actuated                                                                             |
| Pilot air supply                                      | External                                                                                   |
| Flow direction                                        | Non-reversible                                                                             |
| Symbol                                                | 00991402                                                                                   |
| Valve position code                                   | Inscription label holder                                                                   |
| lap                                                   | Overlap                                                                                    |
| Pilot pressure                                        | 0.25 MPa ... 1 MPa                                                                         |
| Pilot pressure                                        | 2.5 bar ... 10 bar                                                                         |
| Switching time off                                    | 30 ms                                                                                      |
| Switching time on                                     | 36 ms                                                                                      |
| Duty cycle                                            | 100%                                                                                       |
| Max. positive test pulse with 0 signal                | 3300 µs                                                                                    |
| Max. negative test pulse with 1 signal                | 3100 µs                                                                                    |
| Permissible voltage fluctuations                      | -15%/+10%                                                                                  |
| 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) |

| Feature                        | Value                                                                            |
|--------------------------------|----------------------------------------------------------------------------------|
| Vibration resistance           | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 |
| Shock resistance               | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress                                                    |
| LABS (PWIS) conformity         | VDMA24364-B1/B2-L                                                                |
| Media temperature              | -5 °C ... 50 °C                                                                  |
| Pilot medium                   | Compressed air to ISO 8573-1:2010 [7:4:4]                                        |
| Ambient temperature            | -5 °C ... 50 °C                                                                  |
| Product weight                 | 110 g                                                                            |
| Type of mounting               | With through-hole                                                                |
| Pilot exhaust port 82          | M5                                                                               |
| Pilot air port 12              | M5                                                                               |
| Pneumatic connection, port 1   | G1/4                                                                             |
| Pneumatic connection, port 2   | G1/4                                                                             |
| Pneumatic connection, port 3   | G1/4                                                                             |
| Note on materials              | RoHS-compliant                                                                   |
| Material seals                 | NBR                                                                              |
| Material housing               | Die-cast aluminium                                                               |