


# Basic valve CPE18-P1-5/3BS-1/4

Part number: 550162

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value                                      |
|---|--|
| Valve function  | 5/3-way, pressurised                       |
| Type of actuation                                     | Via pilot interface to ISO 15218           |
| Construction width                                    | 18 mm                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 1300 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   | Mechanical 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                                       |
| Exhaust-air function                                  | With flow control option                   |
| Sealing principle                                     | Soft                                       |
| Mounting position                                     | optional                                   |
| Manual override                                       | Non-detenting                              |
| Type of piloting                                      | Pilot actuated                             |
| Pilot air supply                                      | External                                   |
| Flow direction  | Reversible                                 |
| Symbol  | 00991031                                   |
| 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                                    | 34 ms                                      |
| Switching time on                                     | 20 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]  |

| Feature                            | Value  |
|------------------------------------|--|
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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                     | 200 g  |
| Type of mounting                   | With through-hole  |
| Pilot exhaust port 82              | M5   |
| Pilot exhaust port 84              | M5   |
| Pilot air port 12                  | M5   |
| Pilot air port 14                  | M5   |
| Pneumatic connection, port 1       | G1/4   |
| Pneumatic connection, port 2       | G1/4   |
| Pneumatic connection, port 3       | G1/4   |
| Pneumatic connection, port 4       | G1/4   |
| Pneumatic connection, port 5       | G1/4   |
| Note on materials                  | RoHS-compliant   |
| Material seals                     | NBR  |
| Material housing                   | Die-cast aluminium   |