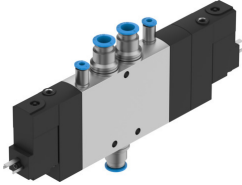


# Solenoid valve CPE18-M2H-5/3BS-QS-8

Part number: 170294

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                      |
|-------------------------------------------------------|--------------------------------------------|
| Valve function                                        | 5/3-way, pressurised                       |
| Type of actuation                                     | Electric                                   |
| Construction width                                    | 18 mm                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 780 l/min                                  |
| pneumatic working port                                | QS-8                                       |
| Operating voltage                                     | 110V AC                                    |
| 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               |
| Degree of protection                                  | IP65<br>With plug socket<br>To IEC 60529   |
| Nominal size                                          | 8 mm                                       |
| Exhaust-air function                                  | With flow control option                   |
| Sealing principle                                     | Soft                                       |
| Mounting position                                     | optional                                   |
| Manual override                                       | Detenting via accessory<br>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                                    | 38 ms                                      |
| Switching time on                                     | 20 ms                                      |
| Duty cycle                                            | 100%                                       |
| Max. positive test pulse with 0 signal                | 3300 µs                                    |

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Max. negative test pulse with 1 signal | 3100 µs                                                                                    |
| Characteristic coil data               | 110 V AC: 50/60 Hz, pick-up power 3.0 VA, holding power 2.4 VA                             |
| 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) |
| 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                                                                            |
| Electrical connection                  | Type C                                                                                     |
| 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           | QS-8                                                                                       |
| Pneumatic connection, port 2           | QS-8                                                                                       |
| Pneumatic connection, port 3           | G1/4                                                                                       |
| Pneumatic connection, port 4           | QS-8                                                                                       |
| Pneumatic connection, port 5           | G1/4                                                                                       |
| Note on materials                      | RoHS-compliant                                                                             |
| Material seals                         | NBR                                                                                        |
| Material housing                       | Die-cast aluminium                                                                         |