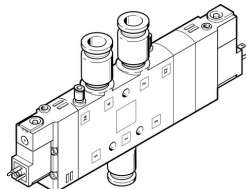


# Solenoid valve CPE24-M1H-5/3ES-QS-12

Part number: 170280

FESTO



General operating condition

## Data sheet

| Feature                                | Value                                    |
|----------------------------------------|------------------------------------------|
| Valve function                         | 5/3 exhausted                            |
| Type of actuation                      | Electric                                 |
| Construction width                     | 24 mm                                    |
| Standard nominal flow rate             | 1600 l/min                               |
| pneumatic working port                 | QS-12                                    |
| Operating voltage                      | 24V DC                                   |
| 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                          |
| Certificate issuing authority          | DNV-TAA000032X<br>UL MH19482             |
| Degree of protection                   | IP65<br>With plug socket<br>To IEC 60529 |
| Nominal size                           | 11 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                                 | 00991032                                 |
| 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                     | 55 ms                                    |
| Switching time on                      | 25 ms                                    |
| Duty cycle                             | 100%                                     |
| Max. positive test pulse with 0 signal | 3300 µs                                  |
| Max. negative test pulse with 1 signal | 3100 µs                                  |
| Characteristic coil data               | 24 V DC: 1.5 W                           |

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| 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-12                                                                                      |
| Pneumatic connection, port 2       | QS-12                                                                                      |
| Pneumatic connection, port 3       | G3/8                                                                                       |
| Pneumatic connection, port 4       | QS-12                                                                                      |
| Pneumatic connection, port 5       | G3/8                                                                                       |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | NBR                                                                                        |
| Material housing                   | Die-cast aluminium                                                                         |