

# Solenoid valve CPE14-M1BH-5L-QS-6

Part number: 196911

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                              |
|-------------------------------------------------------|----------------------------------------------------|
| Valve function                                        | 5/2-way, monostable                                |
| Type of actuation                                     | Electric                                           |
| Construction width                                    | 14 mm                                              |
| Standard nominal flow rate (standardised to DIN 1343) | 400 l/min                                          |
| pneumatic working port                                | QS-6                                               |
| Operating voltage                                     | 24V DC                                             |
| Operating pressure                                    | 0.3 MPa ... 0.8 MPa                                |
| Operating pressure                                    | 3 bar ... 8 bar                                    |
| Design                                                | Piston gate valve                                  |
| Type of reset                                         | Pneumatic 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                                          | 6 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                                      | Internal                                           |
| Flow direction                                        | Non-reversible                                     |
| Symbol                                                | 00991023                                           |
| Valve position code                                   | Inscription label holder                           |
| lap                                                   | Overlap                                            |
| Switching time off                                    | 32 ms                                              |
| Switching time on                                     | 24 ms                                              |
| Duty cycle                                            | 100% in conjunction with holding current reduction |
| Max. positive test pulse with 0 signal                | 1200 µs                                            |
| Max. negative test pulse with 1 signal                | 900 µs                                             |
| Characteristic coil data                              | 24 V DC: 1.28 W                                    |
| 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                                                                            |
| Ambient temperature                | -5 °C ... 50 °C                                                                            |
| Electrical connection              | 2-pin                                                                                      |
| Type of mounting                   | With through-hole                                                                          |
| Pilot exhaust port 82              | M3                                                                                         |
| Pilot exhaust port 84              | M3                                                                                         |
| Pilot air port 12                  | M3                                                                                         |
| Pilot air port 14                  | M3                                                                                         |
| Pneumatic connection, port 1       | QS-6                                                                                       |
| Pneumatic connection, port 2       | QS-6                                                                                       |
| Pneumatic connection, port 3       | G1/8                                                                                       |
| Pneumatic connection, port 4       | QS-6                                                                                       |
| Pneumatic connection, port 5       | G1/8                                                                                       |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | NBR                                                                                        |
| Material housing                   | Die-cast aluminium                                                                         |