

# Solenoid valve CPE24-M1H-3GL-3/8

Part number: 163165

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                     |
|-------------------------------------------------------|-------------------------------------------|
| Valve function                                        | 3/2-way, closed, monostable               |
| Type of actuation                                     | Electric                                  |
| Construction width                                    | 24 mm                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 2500 l/min                                |
| pneumatic working port                                | G3/8                                      |
| Operating voltage                                     | 24V DC                                    |
| Operating pressure                                    | 0.25 MPa ... 1 MPa                        |
| Operating pressure                                    | 2.5 bar ... 10 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                                          | 11 mm                                     |
| 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                                                | 00991655                                  |
| Valve position code                                   | Inscription label holder                  |
| lap                                                   | Overlap                                   |
| Switching time off                                    | 33 ms                                     |
| Switching time on                                     | 50 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                            |
| 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                                                                            |
| Product weight                     | 220 g                                                                                      |
| Electrical connection              | Type C                                                                                     |
| Type of mounting                   | With through-hole                                                                          |
| Pilot exhaust port 82              | M5                                                                                         |
| Pilot air port 12                  | M5                                                                                         |
| Pneumatic connection, port 1       | G3/8                                                                                       |
| Pneumatic connection, port 2       | G3/8                                                                                       |
| Pneumatic connection, port 3       | G3/8                                                                                       |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | NBR                                                                                        |
| Material housing                   | Die-cast aluminium                                                                         |