

# Air solenoid valve CPE18-M1H-5/3G-1/4

Part number: 170247

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                | Value                                         |
|----------------------------------------|-----------------------------------------------|
| Valve function                         | 5/3, closed                                   |
| Actuation type                         | Electrical                                    |
| Width                                  | 18 mm                                         |
| Standard nominal flow rate             | 1450 l/min                                    |
| Pneumatic working port                 | G1/4                                          |
| Operating voltage                      | 24V DC                                        |
| Operating pressure                     | 0.25 MPa ... 1 MPa                            |
| Operating pressure                     | 2.5 bar ... 10 bar                            |
| Structural design                      | Piston gate valve                             |
| Reset method                           | Mechanical spring                             |
| Certification                          | 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>as per IEC 60529  |
| Nominal width                          | 8 mm                                          |
| Exhaust air function                   | With flow control option                      |
| Sealing principle                      | Soft                                          |
| Mounting position                      | Any                                           |
| Manual override                        | Detenting via accessory<br>Non-detenting      |
| Type of control                        | Pilot-controlled                              |
| Pilot air supply port                  | Internal                                      |
| Flow direction                         | Non-reversible                                |
| Symbol                                 | 00991033                                      |
| Valve position ID                      | Label holder                                  |
| Lap                                    | Overlap                                       |
| Switching time off                     | 38 ms                                         |
| On switching time                      | 20 ms                                         |
| Duty cycle                             | 100%                                          |
| Max. positive test pulse with 0 signal | 3300 µs                                       |
| Max. negative test pulse on 1 signal   | 3100 µs                                       |
| Coil characteristics                   | 24 V DC: 1.5 W                                |
| Permissible voltage fluctuations       | -15 % / +10 %                                 |
| Operating medium                       | Compressed air as per ISO 8573-1:2010 [7:4:4] |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use)                   |
| Vibration resistance                     | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                         | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)         | 2 - Moderate corrosion stress                                                        |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L                                                                    |
| Temperature of medium                    | -5 °C ... 50 °C                                                                      |
| Ambient temperature                      | -5 °C ... 50 °C                                                                      |
| Product weight                           | 280 g                                                                                |
| Electrical connection                    | Form C                                                                               |
| Type of mounting                         | With through-hole                                                                    |
| Pilot exhaust air port 82                | M5                                                                                   |
| Pilot exhaust air port 84                | M5                                                                                   |
| Pilot air port 12                        | M5                                                                                   |
| Pilot air port 14                        | M5                                                                                   |
| Pneumatic connection 1                   | G1/4                                                                                 |
| Pneumatic connection 2                   | G $\frac{1}{4}$                                                                      |
| Pneumatic connection 3                   | G1/4                                                                                 |
| Pneumatic connection 4                   | G1/4                                                                                 |
| Pneumatic connection 5                   | G1/4                                                                                 |
| Note on materials                        | RoHS-compliant                                                                       |
| Seals material                           | NBR                                                                                  |
| Housing material                         | Die-cast aluminum                                                                    |