

# Air solenoid valve CPE18-M2H-5/3GS-1/4

Part number: 170284

FESTO



[General operating condition](#)

## Data sheet

| Feature                                           | Value                                        |
|---------------------------------------------------|----------------------------------------------|
| Valve function                                    | 5/3, closed                                  |
| Actuation type                                    | Electrical                                   |
| Width                                             | 18 mm                                        |
| Normal nominal flow rate (normalized to DIN 1343) | 1450 l/min                                   |
| Pneumatic working port                            | G1/4                                         |
| Operating voltage                                 | 110V AC                                      |
| Operating pressure                                | -0.09 MPa ... 1 MPa                          |
| Operating pressure                                | -0.9 bar ... 10 bar                          |
| Structural design                                 | Piston gate valve                            |
| Reset method                                      | Mechanical spring                            |
| Certification                                     | c UL us - Recognized (OL)                    |
| Maritime classification                           | See certificate                              |
| CE marking (see declaration of conformity)        | As per EU low voltage directive              |
| UKCA marking (see declaration of conformity)      | To UK instructions for electrical equipment  |
| 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                             | External                                     |
| Flow direction                                    | Reversible                                   |
| Symbol                                            | 00991020                                     |
| Valve position ID                                 | Label holder                                 |
| Lap                                               | Overlap                                      |
| Pilot pressure MPa                                | 0.25 MPa ... 1 MPa                           |
| Pilot pressure                                    | 2.5 bar ... 10 bar                           |
| Switching time off                                | 38 ms                                        |
| On switching time                                 | 20 ms                                        |
| Duty cycle                                        | 100%                                         |
| Max. positive test pulse with 0 signal            | 3300 µs                                      |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| Max. negative test pulse on 1 signal     | 3100 µs                                                                              |
| Coil characteristics                     | 110 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA                       |
| Permissible voltage fluctuations         | -15 % / +10 %                                                                        |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                                        |
| 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                                                                      |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]                                        |
| 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                   | G1/4                                                                                 |
| 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                                                                    |