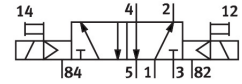


# Air solenoid valve CPE18-M1H-5J-1/4

Part number: 163143

**FESTO**



General operating condition

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Valve function                           | 5/2, bistable                                                      |
| Actuation type                           | Electrical                                                         |
| Width                                    | 18 mm                                                              |
| Standard nominal flow rate               | 1500 l/min                                                         |
| Pneumatic working port                   | G1/4                                                               |
| Operating voltage                        | 24V DC                                                             |
| Operating pressure                       | 0.2 MPa ... 1 MPa                                                  |
| Operating pressure                       | 2 bar ... 10 bar                                                   |
| Structural design                        | Piston gate valve                                                  |
| 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                                   | 00991013                                                           |
| Valve position ID                        | Label holder                                                       |
| Lap                                      | Overlap                                                            |
| Changeover time                          | 13 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]                      |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |

| Feature                          | Value                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------|
| 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                   | 270 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                                                                    |