

# Air solenoid valve CPE14-M1CH-5/3G-1/8

Part number: 550241

FESTO



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3, closed  |
| Actuation type                                    | Electrical   |
| Width   | 14 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 750 l/min  |
| Pneumatic working port                            | G1/8   |
| Operating voltage                                 | 24V DC   |
| Operating pressure                                | 0.3 MPa ... 0.8 MPa                                  |
| Operating pressure                                | 3 bar ... 8 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>IP67<br>With plug socket<br>as per IEC 60529 |
| Nominal width                                     | 6 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                                | 42 ms  |
| On switching time                                 | 20 ms  |
| Duty cycle  | 100%   |
| Max. positive test pulse with 0 signal            | 1200 µs  |
| Max. negative test pulse on 1 signal              | 900 µs   |
| Coil characteristics                              | 24 V DC: 1.28 W                                      |
| Permissible voltage fluctuations                  | -15 % / +10 %  |

| Feature                                  | Value  |
|--|--|
| 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  |
| Ambient temperature                      | -5 °C ... 50 °C  |
| Max. tightening torque plug              | 0.4 Nm   |
| Product weight                           | 120 g  |
| Electrical connection                    | M8x1   |
| Type of mounting                         | With through-hole  |
| Pilot exhaust air port 82                | M3   |
| Pilot exhaust air port 84                | M3   |
| Pilot air port 12                        | M3   |
| Pilot air port 14                        | M3   |
| Pneumatic connection 1                   | G1/8   |
| Pneumatic connection 2                   | G1/8   |
| Pneumatic connection 3                   | G1/8   |
| Pneumatic connection 4                   | G1/8   |
| Pneumatic connection 5                   | G1/8   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | NBR  |
| Housing material                         | Die-cast aluminum  |