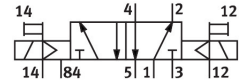


# Solenoid valve CPV14-M1H-5JS-K-1/8

Part number: 559651

FESTO



General operating condition

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/2 bistable                                                                               |
| Type of actuation                                     | Electric                                                                                   |
| Valve size                                            | 14 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 800 l/min                                                                                  |
| pneumatic working port                                | G1/8                                                                                       |
| Operating voltage                                     | 24V DC                                                                                     |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                                        |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                                        |
| Design                                                | Piston gate valve                                                                          |
| Degree of protection                                  | IP65                                                                                       |
| Nominal size                                          | 6 mm                                                                                       |
| Exhaust-air function                                  | Without flow control option                                                                |
| Sealing principle                                     | Soft                                                                                       |
| Mounting position                                     | optional                                                                                   |
| Manual override                                       | Detenting<br>Non-detenting                                                                 |
| Type of piloting                                      | Pilot actuated                                                                             |
| Pilot air supply                                      | External<br>Internal                                                                       |
| Flow direction                                        | Non-reversible                                                                             |
| Symbol                                                | 00991683                                                                                   |
| lap                                                   | Overlap                                                                                    |
| Pilot pressure                                        | 0.3 MPa ... 0.8 MPa                                                                        |
| Pilot pressure                                        | 3 bar ... 8 bar                                                                            |
| b value                                               | 0.42                                                                                       |
| C value                                               | 3.2 l/sbar                                                                                 |
| Switching time reversal                               | 12 ms                                                                                      |
| Duty cycle                                            | 100% in conjunction with holding current reduction                                         |
| Electrical power consumption                          | 0.65 W                                                                                     |
| Max. positive test pulse with 0 signal                | 1400 µs                                                                                    |
| Max. negative test pulse with 1 signal                | 400 µs                                                                                     |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| 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                          |

| Feature                           | Value                                |
|-----------------------------------|--------------------------------------|
| Corrosion resistance class CRC    | 2 - Moderate corrosion stress        |
| LABS (PWIS) conformity            | VDMA24364-B1/B2-L                    |
| Storage temperature               | -20 °C ... 40 °C                     |
| Media temperature                 | -5 °C ... 50 °C                      |
| Ambient temperature               | -5 °C ... 50 °C                      |
| Product weight                    | 120 g                                |
| Type of mounting                  | With through-hole                    |
| Pilot air port 12/14              | Common line                          |
| Pilot exhaust port 82/84          | Common line                          |
| Pneumatic connection, port 1      | Common line with pressure separation |
| Pneumatic connection, port 2      | G1/8                                 |
| Pneumatic connection 3/5 combined | Common line                          |
| Pneumatic connection, port 4      | G1/8                                 |
| Note on materials                 | RoHS-compliant                       |
| Material seals                    | HNBR<br>NBR                          |
| Material housing                  | POM<br>PPS<br>Steel                  |