

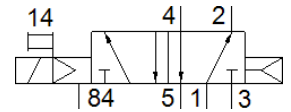
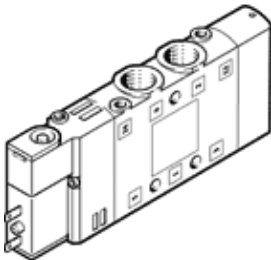
# solenoid valve

## CPE14-M1BH-5L-1/8

Part number: 196941

FESTO

High component density



## Data sheet

| Feature                                 | values   |
|---|--|
| Valve function                          | 5/2 monostable   |
| Type of actuation                       | electrical   |
| Width                                   | 14 mm  |
| Standard nominal flow rate              | 800 l/min  |
| Operating pressure                      | 3 ... 8 bar  |
| Design structure                        | Piston slide   |
| Type of reset                           | Air spring   |
| Protection class                        | IP65<br>to IEC 60529<br>with plug socket   |
| Authorisation                           | Germanischer Lloyd<br>c UL us - Recognized (OL)  |
| Nominal size                            | 6 mm   |
| Exhaust-air function                    | throttleable   |
| Sealing principle                       | soft   |
| Assembly position                       | Any  |
| Manual override                         | with accessories, detenting<br>Pushing   |
| Type of piloting                        | Piloted  |
| Pilot air supply                        | Internal   |
| Flow direction                          | non reversible   |
| Valve position identification           | Inscription label holder   |
| Freedom from overlap                    | Yes  |
| Note on forced dynamisation             | Switching frequency at least once a week   |
| Switching time off                      | 32 ms  |
| Switching time on                       | 24 ms  |
| Duty cycle                              | 100% with holding current reduction  |
| Max. positive test pulse with logic 0   | 1,200 µs   |
| Max. negative test pulse with logic 1   | 900 µs   |
| Characteristic coil data                | 24 V DC: 1.28 W  |
| Permissible voltage fluctuation         | -15 % / +10 %  |
| Operating medium                        | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Note on operating and pilot medium      | Lubricated operation possible (subsequently required for further operation)                    |
| Vibration resistance                    | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Shock resistance                        | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27              |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress  |
| Medium temperature                      | -5 ... 50 °C   |
| Ambient temperature                     | -5 ... 50 °C   |
| Product weight                          | 95 g   |
| Electrical connection                   | 2-pin  |
| Mounting type                           | with through hole  |

| Feature                         | values             |
|---------------------------------|--------------------|
| Pilot exhaust port 82           | M3                 |
| Pilot exhaust port 84           | M3                 |
| Pilot air port 12               | M3                 |
| Pilot air port 14               | M3                 |
| Pneumatic connection, port 1    | G1/8               |
| Pneumatic connection, port 2    | G1/8               |
| Pneumatic connection, port 3    | G1/8               |
| Pneumatic connection, port 4    | G1/8               |
| Pneumatic connection, port 5    | G1/8               |
| Materials note                  | Conforms to RoHS   |
| Materials information for seals | NBR                |
| Materials information, housing  | Aluminium die cast |