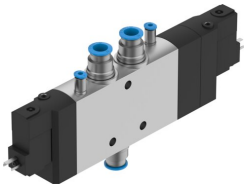
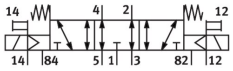
# Air solenoid valve
# CPE24-M2H-5/3ES-QS-10

Part number: 170310






General operating condition

## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3, exhausted |
| Actuation type | Electrical |
| Width | 24 mm |
| Standard nominal flow rate | 1250 l/min |
| Pneumatic working port | QS-10 |
| 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 | 11 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 | 00991032 |
| 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 | 55 ms |
| On switching time | 25 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 |
| 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 | QS-10 |
| Pneumatic connection 2 | QS-10 |
| Pneumatic connection 3 | G3/8 |
| Pneumatic connection 4 | QS-10 |
| Pneumatic connection 5 | G3/8 |
| Note on materials | RoHS-compliant |
| Seals material | NBR |
| Housing material | Die-cast aluminum |