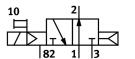
Air solenoid valve CPE18-M3H-3OL-QS-10 Part number: 163800



Data sheet



General operating condition

| Actuation type Electrical Width 18 mm Standard nominal flow rate 1000 l/min Pneumatic working port QS-10 Operating yottage 230 VAC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification C UL us - Recognized (OL) Maritime classification See certificate CE marking (see declaration of conformity) As pre EU low voltage directive UKCA marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority DNV-TAV000032X UL MH 19482 Degree of protection URCA marking position Am Manual override Soft Mounting position Any Manual override Defenting via accessory Non-reversible Operating Symbol 00991656 Valve position ID Label holder Lap Overlap On switching time | Feature | Value |
|---|--|--|
| With 18 mm Standard nominal flow rate 1000 l/min Pneumatic working port QS-10 Operating voltage 230V AC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic 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 UKCA marking (see declaration of conformity) DV TAA000032X UKCA marking (see declaration of conformity) DV TAA000032X UL MH19482 Degree of protection With plug socket as per IEC 60529 Nominal width S mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-reversible Opogate declaration detenting | Valve function | 3/2, open, monostable |
| Standard nominal flow rate1000 l/minPneumatic working portQS-10Operating yottage230V ACOperating pressure0.25 MP a 1 MPaOperating pressure2.5 bar 10 barStructural designPiston gate valveReset methodPneumatic springCertificationC UL us - Recognized (OL)Martime classificationSee certificateCE marking (see declaration of conformity)As per EU low voltage directiveUKCA marking (see declaration of conformity)To UK instructions for electrical equipmentCertificate issuing authorityUN WI19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlIPilot -controlledFlot air supply portInternalFlot air supply portInternalControlVerlapSymbol00991656Symbol0yes166On switching time off18 msOn switching time off300 µsMax. positive test pulse with 0 signal3100 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 VAC: 50/60 Hz; initial power 3.0 VA, holding pow | Actuation type | Electrical |
| Pneumatic working portQS-10Operating voltage230V ACOperating pressure0.25 MPa 1 MPaOperating pressure2.5 bar 10 barStructural designPiston gate valveReset methodPneumatic springCertificationc UL us - Recognized (0L)Maritime classificationSee certificateCE marking (see declaration of conformity)As per EU low voltage directiveUKCA marking (see declaration of conformity)To UK instructions for electrical equipmentCertificate issuing authorityDNV-TAA000032XULK Marking (see declaration of conformity)DNV-TAA000032XUL MH19482Degree of protectionPerficate issuing authoritySoftNominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingVipe of controlPilot-controlledPilot ai supply portInternalFlow direction00991656Symbol00991656Symbol18 msOn switching time off18 msOn switching time off18 msDuty cycle100%Max. ngative test pulse on 1 signal3100 µsColl characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Width | 18 mm |
| Operating voltage 230V AC Operating pressure 0.25 MP 1 MPa Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic 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 UL MH19482 Degree of protection With plug socket as per EU 60529 Soft Nominal width S mm Sealing principle Soft Manual override Detenting via accessory Non-detenting Via position Any Piot air supply port Internal Flow direction Non-reversible Symbol 00991656 Valve position ID Label holder Lap 18 ms On switching time 28 ms Duty cycle 100% Max. pos | Standard nominal flow rate | 1000 l/min |
| Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification C UL us - Recognized (0L) 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-TAQ00032X UKLA marking (see declaration of conformity) DNV-TAQ00032X UM MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 8 mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot controlled Internal Flow direction Non-reversible Symbol 00991656 Valve position ID Label holder Lap Overlap Switching time off | Pneumatic working port | QS-10 |
| Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic 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 UL MH19482 Degree of protection Pres Post Nominal width 8 mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Pilot-controlled Pilot air supply port Internal Flow direction ID Label holder Lap Overlap Switching time off 18 ms On switching time 28 ms Duty cycle 100% Max, negative test pulse on 1 signal 3100 µs | Operating voltage | 230V AC |
| Structural design Piston gate valve Reset method Pneumatic 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 UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 8 mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Pilot controlled Pilot-controlled Pilot air supply port Internal Flow direction 0991656 Valve position ID Label holder Lap Overlap Switching time off 18 ms On switching time off 28 ms Duty cycle 100% Max, negative test pulse with 0 signal 3300 µs Max, negative test pulse on 1 signal 230 V Ac: 50 | Operating pressure | 0.25 MPa 1 MPa |
| Reset methodPneumatic springCertificationc UL us - Recognized (OL)Maritime classificationSee certificateCE marking (see declaration of conformity)As per EU low voltage directiveUKCA marking (see declaration of conformity)To UK instructions for electrical equipmentCertificate issuing authorityDNV-TAA000032X UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftManual overrideDetenting via accessory Non-detentingYipe of controlPilot-controlledPilot air supply portInternalFlow direction0991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn suitching time off18 msOn suitching time off3300 µsMax, negative test pulse with 0 signal3100 µsMax, negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Operating pressure | 2.5 bar 10 bar |
| Certificationc UL us - Recognized (OL)Maritime classificationSee certificateCE marking (see declaration of conformity)As per EU low voltage directiveUKCA marking (see declaration of conformity)To UK instructions for electrical equipmentCertificate issuing authorityDNV-TAA00032XUL MH19482Degree of protectionIP65With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow direction0991656Symbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time off18 msOn switching time28 msDuty cycle100%Max, negative test pulse on 1 signal3100 µsColi characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Structural design | Piston gate valve |
| 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 UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Soft Nounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991656 Valve position ID Label holder Lap Overlap Switching time off 18 ms On switching time 28 ms Duty cycle 100% Max, negative test pulse on 1 signal 3100 µs | Reset method | Pneumatic spring |
| CE marking (see declaration of conformity)As per EU low voltage directiveUKCA marking (see declaration of conformity)To UK instructions for electrical equipmentCertificate issuing authorityDNV-TAA000032X UL MH19A82Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMonuting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow direction IDLabel holderLapOverlapSwitching time offf18 msOn switching time28 msDuty cycle10%Max, negative test pulse with 0 signal3100 µsMax, negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Certification | c UL us - Recognized (OL) |
| UKCA marking (see declaration of conformity)To UK instructions for electrical equipmentCertificate issuing authorityDNV-TAA000032X UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. negative test pulse with 0 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Maritime classification | See certificate |
| Certificate issuing authorityDNV-TAA000032X UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot controlNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time Duty cycle28 msDuty cycle100%Max. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | CE marking (see declaration of conformity) | As per EU low voltage directive |
| UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol09991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time off100%Max, positive test pulse with 0 signal3300 µsMax, negative test pulse on 1 signal2100 µSCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | UKCA marking (see declaration of conformity) | To UK instructions for electrical equipment |
| With plug socket as per IEC 60529Nominal width8 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time off28 msDuty cycle100%Max. negative test pulse with 0 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Certificate issuing authority | - |
| Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. negative test pulse with 0 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Degree of protection | With plug socket |
| AnyMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Nominal width | 8 mm |
| Manual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Sealing principle | Soft |
| Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Mounting position | Any |
| Pilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Manual override | |
| Flow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Type of control | Pilot-controlled |
| Symbol00991656Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics23 0 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Pilot air supply port | Internal |
| Valve position IDLabel holderLapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics23 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Flow direction | Non-reversible |
| LapOverlapSwitching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Symbol | 00991656 |
| Switching time off18 msOn switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Valve position ID | Label holder |
| On switching time28 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Lap | Overlap |
| Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs Coil characteristics 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Switching time off | 18 ms |
| Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | On switching time | 28 ms |
| Max. negative test pulse on 1 signal3100 μsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Duty cycle | 100% |
| Coil characteristics 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA | Max. positive test pulse with 0 signal | 3300 µs |
| | Max. negative test pulse on 1 signal | 3100 µs |
| Permissible voltage fluctuations -15 % / +10 % | Coil characteristics | 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA |
| | 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 |
| Electrical connection | Form C |
| Type of mounting | With through-hole |
| Pilot exhaust air port 82 | M5 |
| Pilot air port 12 | M5 |
| Pneumatic connection 1 | QS-10 |
| Pneumatic connection 2 | QS-10 |
| Pneumatic connection 3 | G1/4 |
| Note on materials | RoHS-compliant |
| Seals material | NBR |
| Housing material | Die-cast aluminum |