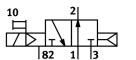
## Air solenoid valve CPE24-M1H-3OL-QS-12 Part number: 163180



## **Data sheet**



## General operating condition

Actuation type       Electrical         Width       24 mm         Standard nominal flow rate       1550 l/min         Pneumatic working port       QS-12         Operating voltage       24 V DC         Operating pressure       0.25 MPa 1 MPa         Operating pressure       2.5 bar 10 bar         Structural design       Piston gate valve         Seest method       Pneumatic spring         Certification       c UL us - Recognized (OL)         Martine classification       See certificate         Certificate issuing authority       DV-NA000032X         UL MH19482       UL MH19482         Degree of protection       IP65         With plug socket as per IEC 60529       Soft         Mounting position       Any         Manual override       Detenting via accessory Non-detenting         Vipe of control       Pilot controlled         Pilot air supply port       Internal         Calve position ID       Label holder         .ap       Overlap         Soft Idegrad       330 ms         On switching time off       33 ms         On switching time off       330 ms         On systi	Feature	Value
Average     24 mm       Standard nominal flow rate     1650 l/min       Pneumatic working port     QS-12       Operating voltage     24V DC       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       Certificate issuing authority     DNV TAA00032X       UL MH 19482     Degree of protection       With plug socket as per IEC 60529     Soft       Vouninal width     11 mm       Sealing principle     Soft       Voucuting position     Any       Wanual override     Detenting via accessory Non detenting       Vipe of control     Pielot-controlled       Pilot-controlled     Internal       Claw position ID     Label holder      ap     Overlap       Switching time off     33 ms	Valve function	3/2, open, monostable
Answer1550 l/minPneumatic working portQS-12Operating pressure0.25 MP 1 MPaOperating pressure2.5 bar 10 barStructural designPiston gate valveReset methodPneumatic springCertificate iassificationC UL us - Recognized (OL)Maritime classificationSee certificateCertificate iassing authorityDNV-TAA000032XUL MH19482DNV-TAA00032XUL MH19482DNV-TAA00032XUL MH19482DNV-TAA000032XUL MH19482DNV-TAA000032XVaritime classificationSee certificateSertificate issuing authorityDNV-TAA000032XUL MH19482DNV-TAA000032XVaritime pressoreSoftSealing principleSoftWounting positionAnyMaual overrideDetenting via accessoryNon-detentingNon-detentingSymbolOop91656Varie pressoreSoftVarie position IDLabel holder	Actuation type	Electrical
Pneumatic working port       QS-12         Operating voltage       24V DC         Operating pressure       0.25 MPa 1 MPa         Operating pressure       2.5 bar 10 bar         Structural design       Piston gate valve         Reset method       Pneumatic spring         Certification       CUL us - Recognized (OL)         Maritime classification       See certificate         Certificate issuing authority       UL MH19482         Degree of protection       P65         With plug socket as per IEC 60529       Soft         Vouninal width       11 mm         Sealing principle       Soft         Mounting position       Any         Manual override       Detenting via accessory Non-detenting         Pilot air supply port       Internal         Soft Marcon       Non-reversible         Symbol       00991656         Variable principting time       50 ms         Soft ms       33 ms         Do switching time       30 ms         Do switching time       300 µs         Soft was positive test pulse with 0 signal       3300 µs         Max. negative test pulse on 1 signal       3100 µs <tr< td=""><td>Width</td><td>24 mm</td></tr<>	Width	24 mm
Deperating voltage     24V DC       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)       Waritime classification     See certificate       Certificate issuing authority     UL MH19482       Degree of protection     IP65       With plug socket as per IEC 60529     Soft       Nouninal width     11 mm       Sealing principle     Soft       Mounting position     Any       Manual override     Detenting via accessory Non-detenting       Vipe of control     Pilot-controlled       Pilot air supply port     Internal       Sowythol     00991656       Valve position ID     Label holder       .ap     Orerlap       Switching time off     33 ms       Dar switching time     50 ms       Duty cycle     100%       Max. negative test pulse on 1 signal     3300 µs       Max. negative test pulse on 1 signal     3100 µs       Premisible Voltage fluctuations     24 V DC: 1.5 W	Standard nominal flow rate	1650 l/min
Derating pressure0.25 MPa 1 MPaOperating pressure2.5 bar 10 barStructural designPiston gate valveReset methodPneumatic springCertificationC UL us - Recognized (0L)Maritime classificationSee certificateCertificate issuing authorityDNV-TAA000032X UL MH19482Degree of protectionP65 With plug socket as per IEC 60529Nominal width11 mmSealing principleSoftMounting positionAny Mon-detentingWarual overrideDetenting via accessory Non-detentingVippe of controlPilot-controlledPilot air supply portInternalFlow direction0991656Symbol00991656SymbolSo msDustining time off33 msOn synthynig time50 msDut cycle100%Max. negative test pulse on 1 signal3100 µsCold characteristics24 V DC: 1.5 WPertmissible voltage fluctuations-15 % / 410 %Compressed air as per ISO 8573-1:2010 [7:4:4]	Pneumatic working port	QS-12
Deracting pressure2.5 bar 10 barStructural designPiston gate valveReset methodPneumatic springCertificationc UL us - Recognized (OL)Waritime classificationSee certificateCertificate issuing authorityDNV-TAA000032XUL MH19482Degree of protectionWith plug socket as per IEC 60529Vominal width11 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingVipp of controlPilot-controlledPilot air supply portInternalCloud direction09991656Symbol00991656SymbolSo msDustifying time off33 msOn switching time50 msDustifying time off33 msOn systive test pulse on 1 signal3100 µsColl characteristics24 V DC: 1.5 WPremissible voltage fluctuations-15 % /-10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Operating voltage	24V DC
Piston gate valve         Reset method       Pneumatic spring         Certification       c UL us - Recognized (OL)         Waritime classification       See certificate         Certificate issuing authority       DNV-TAA000032X         UL MH19482       Degree of protection         IP65       With plug socket as per IEC 60529         Nominal width       11 mm         Sealing principle       Soft         Mounting position       Any         Manual override       Detenting via accessory Non-detenting         Vipot ontrol       Pilot-controlled         Pilot air supply port       Internal         Clave position 1D       Label holder         .ap       Overlap         Switching time off       33 ms         Da witching time       50 ms         Souty cycle       100%         Max. negative test pulse on 1 signal       3100 µs         Coll characteristics       24 V DC: 1.5 W	Operating pressure	0.25 MPa 1 MPa
Reset method       Pneumatic spring         Certification       c UL us - Recognized (OL)         Waritime classification       See certificate         Certificate issuing authority       DNV-TAA000032X         UL MH19482       DVV-TAA000032X         Degree of protection       IP65         With plug socket as per IEC 60529       Soft         Nominal width       11 mm         Sealing principle       Soft         Mounting position       Any         Manual override       Detenting via accessory Non-detenting         Fiype of control       Pilot-controlled         Pilot air supply port       Internal         Cieve of protection       00991636         Symbol       O991636         Valve position ID       Label holder         .ap       Soms         Duty cycle       100%         Max. positive test pulse on 1 signal       3300 µs         Max. negative test pulse on 1 signal       3100 µs         Permissible voltage fluctuations       -15 % / +10 %	Operating pressure	2.5 bar 10 bar
Eretrificationc UL us - Recognized (0L)Maritime classificationSee certificateCertificate issuing authorityDNV-TAA000032X UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingVia air supply portInternal-low direction09991656Value position IDLabel holder-apOverlapSwitching time off33 msOn systive test pulse with 0 signal3300 µsMax. positive test pulse on 1 signal3100 µsColl characteristics24 V DC 1.5 WPermissible voltage fluctuations-15 % / ±10 %Compressed air as per ISO 8573-1:2010 [7:4:4]	Structural design	Piston gate valve
Wartime classification     See certificate       Certificate issuing authority     DNV-TAA000032X       UL MH19482     Degree of protection       IP65     With plug socket       as per IEC 60529     Nominal width       Sealing principle     Soft       Wounting position     Any       Wanual override     Detenting via accessory       Non-detenting     Pilot-controlled       Pilot-controlled     Pilot-controlled       Pilot air supply port     Internal       Flow direction     Non-reversible       Symbol     00991656       Valve position ID     Label holder       .a.p     Overlap       Switching time off     33 ms       Don switching time     50 ms       Duty cycle     100%       Wax. positive test pulse on 1 signal     3100 µs       Coil characteristics     24 V DC: 1.5 W       Permissible voltage fluctuations     -15 % / 10 %	Reset method	Pneumatic spring
Certificate issuing authorityDNV-TAA000032X UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmSealing principleSoftMounting positionAnyWanual overrideDetenting via accessory Non-detentingYope of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve positing time off33 msOn switching time off33 msOn switching time off3300 µsMax. negative test pulse on 1 signal3100 µsColl characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / ±10 %Opperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Certification	c UL us - Recognized (OL)
UL MH19482Degree of protectionIP65 With plug socket as per IEC 60529Nominal width1 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingYpe of controlPilot-controlledPilot ai supply portInternalSoft00991656Valve position IDLabel holder.apOverlapSwitching time off33 msDo switching time off50 msDusty cycle100%Max. negative test pulse with 0 signal3100 µsColl characteristics24 V DC: 1.5 WPermissible voltage fluctuationsCompressed air as per ISO 8573-1:2010 [7:4:4]	Maritime classification	See certificate
With plug socket as per IEC 60529Nominal width11 mmSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holdercapOverlapSwitching time off33 msDo switching time off3300 µsMax, negative test pulse on 1 signal3100 µsColl characteristics24 V DC: 1.5 WPermissible voltage fluctuations15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Certificate issuing authority	-
Seealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalPow directionNon-reversibleSymbol00991656Valve position IDLabel holder-apOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse on 1 signal3100 µsColl characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Degree of protection	With plug socket
Mounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalClow directionNon-reversibleSymbol00991656Valve position IDLabel holder.apOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse with 0 signal3100 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Nominal width	11 mm
Wanual overrideDetenting via accessory Non-detentingIfype of controlPilot-controlledPilot air supply portInternalPilot air supply portInternalPilot air supply port00991656Symbol00991656Valve position IDLabel holder.apOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Sealing principle	Soft
Non-detentingType of controlPilot-controlledPilot air supply portInternalPilot air supply portNon-reversibleFlow directionNon-reversibleSymbol00991656/alve position IDLabel holder.apOverlapSwitching time off33 msDn switching time50 msDuty cycle100%Max. negative test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V Dc: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Mounting position	Any
Pilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Manual override	
Flow directionNon-reversibleSymbol00991656/alve position IDLabel holder.apOverlapSwitching time off33 msOn switching time50 msOuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Type of control	Pilot-controlled
Symbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Pilot air supply port	Internal
Valve position IDLabel holder.apOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Flow direction	Non-reversible
LapOverlapSwitching time off33 msOn switching time50 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991656
Switching time off33 msSwitching time50 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Valve position ID	Label holder
On switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Lap	Overlap
Duty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	33 ms
Wax. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	50 ms
Wax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Duty cycle	100%
Coil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Max. positive test pulse with 0 signal	3300 µs
Permissible voltage fluctuations     -15 % / +10 %       Operating medium     Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. negative test pulse on 1 signal	3100 µs
Operating medium   Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	24 V DC: 1.5 W
	Permissible voltage fluctuations	-15 % / +10 %
nformation on operating and pilot media Operation with oil lubrication possible (required for further use)	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)

Feature	Value
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 ℃ 50 ℃
Ambient temperature	-5 ℃ 50 ℃
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-12
Pneumatic connection 2	QS-12
Pneumatic connection 3	G3/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum