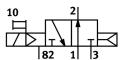
Air solenoid valve CPE24-M1H-3OL-QS-12 Part number: 163180



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)
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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
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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