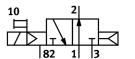
## Air solenoid valve CPE18-M3H-3OL-QS-10 Part number: 163800



## **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