## Air solenoid valve CPE24-M3H-3OL-QS-12 Part number: 163848



## **Data sheet**

Actuation type   Electrical     Width   24 mm     Standard nominal flow rate   1650 l/min     Pneumatic working port   Q5-12     Operating voltage   230V AC     Operating pressure   0.25 MPa 1 MPa     Structural design   Piston gate valve     Reset method   Pneumatic working     Certification   C UL us - Recognized (OL)     Maritime classification   See certificate     Degree of protection   IP65     With plug socket   as per IEC 60529     Nominal width   11 mm     Type code   CPE24     Sealing principle   Soft     Mounting position   Any     Manual override   Detenting via accessory Non-detenting     Vipe of control   Pilot-controled     Pilot air supply port   Internal     Flow direction   Non-reversible     Symbol   00991656     Valve position ID	Feature	Value
Width 24 mm   Standard nominal flow rate 1650 l/min   Pneumatic working port QS-12   Operating prostage 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 cl UL us - Recognized (OL)   Maritime classification See certificate   Degree of protection IP65   With plug socket as per IEC 60529   Nominal width 11 mm   Type code CP24   Sealing principle Soft   Mounting position Any   Manual override Detenting via accessory   Non-detenting Non-detenting   Valve position ID Label holder   Lap Overlap   Switching time off 33 ms   On switching time off 33 00 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	Valve function	3/2, open, monostable
Standard nominal flow rate1650 l/minPneumatic working portQS-12Operating pressure0.25 MP a 1 MPaOperating pressure2.5 bar 10 barStructural designPiston gate valveReset methodPneumatic springCertificationc UL us - Recognized (OL)Maritime classificationSee certificateDegree of protectionP65With plug socket as per lic 60529Nominal width11 mmType codeCPE24Sealing principleSoftMaural overrideDetenting via accessory Non-detentingManal overrideDetenting via accessory Non-detentingSymbol00991656Valve position IDLabel holderSymbol00991656Valve position IDLabel holderSwitching time 	Actuation type	Electrical
Pneumatic working port QS-12   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   Degree of protection IP65   With plug socket as per IEC 60529   Nominal width 11 mm   Type code CPE24   Sealing principle Soft   Mounting position Any   Manual override Detenting via accessory Non-detenting   Vipe of control Pilot-controlled   Pilot ai supply port Internal   Flow direction 00991656   Valve position ID Label holder   Lap Onerlap   Switching time off 33 ms   Dot switching time 50 ms   Duty cycle 100%   Max. negative test pulse with 0 signal 3300 µs   Max. negative test pulse on 1 signal 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA	Width	24 mm
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   Degree of protection IP65   With plug socket as per IEC 60529 Soft   Nounting position Any   Mounting 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   Syntheng time off 33 ms   On switching time off 33 ms   On synthic time soft 3200 µs   Max. negative test pulse with 0 signal 3300 µs   Max. positive test pulse with 0 signal 3100 µs   Premissible voltage fluctuations -15 % / -10 %	Standard nominal flow rate	1650 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 (OL)     Maritime classification   See certificate     Degree of protection   IP65     With plug socket as per IEC 60529   Soft     Nominal width   11 mm     Type code   CPE24     Sealing principle   Soft     Mounting position   Any     Manual override   Detenting via accessory Non-detenting     Type of control   Pilot-controlled     Pilot ar supply port   Internal     Flow direction   Non-reversible     Symbol   00991656     Valve position ID   Label holder     Lap   Overlap     Son s   Duty cycle     On wsitching time off   33 ms     On syntexing time   50 ms     Duty cycle   100%     Max. negative test pulse with 0 signal   3300 µs     Max. negative test pulse on 1 signal	Pneumatic working port	QS-12
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   Degree of protection IP65   With plug socket as per IEC 60529 With plug socket   Nominal width 11 mm   Type code CPE24   Sealing principle Soft   Mounting position Any   Manual override Detenting via accessory Non-detenting   Viep of control Pilot-controlled   Pilot air supply port Internal   Flow direction Non-reversible   Symbol 00991656   Valve position ID Label holder   Lap Soms   On switching time off 33 ms   On switching time 50 ms   Duty cycle 100%   Max. negative test pulse on 1 signal 3100 µs   Coll characteristics 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA	Operating voltage	230V AC
Structural designPiston gate valveReset methodPneumatic springCertificationcUL us - Recognized (OL)Waritime classificationSee certificateDegree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmType codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingPilot air supply portInternalFlow direction0991656Symbol00991656Switching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse on 1 signal3100 µsColl characteristics230 VAC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Operating pressure	0.25 MPa 1 MPa
Reset methodPneumatic springCertificationc UL us - Recognized (OL)Maritime classificationSee certificateDegree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmType codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingYpe of controlPilot-controlledPilot accessory Non-detentingSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse on 1 signal3100 µsColl characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / 10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Operating pressure	2.5 bar 10 bar
Certificationc UL us - Recognized (OL)Maritime classificationSee certificateDegree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmType codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot controlPilot-controlledPilot controlNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative test pulse on 1 signal3100 µsMax. negative test pulse on 1 signal3100 µsColl characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Structural design	Piston gate valve
Maritime classificationSee certificateDegree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmType codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time off300 µsMax. negative test pulse with 0 signal3100 µsMax. negative test pulse on 1 signal3100 µsColl characteristics23 0 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Reset method	Pneumatic spring
Degree of protectionIP65 With plug socket as per IEC 60529Nominal width11 mmType codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max, negative 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 VAPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Certification	c UL us - Recognized (OL)
With plug socket as per IEC 60529Nominal width11 mmType codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 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 VAPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per IS0 8573-1:2010[7:4:4]	Maritime classification	See certificate
Type codeCPE24Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 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 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Degree of protection	With plug socket
Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 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 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Nominal width	11 mm
Mounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 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 VAPermissible voltage fluctuations-15 % / ±10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Type code	CPE24
Manual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 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 VAPermissible 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 portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%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 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Mounting position	Any
Prilot air supply portInternalPilot air supply portInternalFlow directionNon-reversibleSymbol00991656Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. negative 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 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Manual override	
Flow directionNon-reversibleSymbol00991656Valve 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 characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible 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 characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]	Pilot air supply port	Internal
Valve 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 characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible 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 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 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991656
Switching time off33 msOn switching time50 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 VAPermissible 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 characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible 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 characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	33 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 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	50 ms
Max. negative test pulse on 1 signal3100 µsCoil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Duty cycle	100%
Coil characteristics230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VAPermissible 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	230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA
	Permissible voltage fluctuations	-15 % / +10 %
Information 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)

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**FESTO** 

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
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