## Air solenoid valve CPE18-M3H-5J-QS-10 Part number: 163803



## **Data sheet**

Actuation type   Electrical     Width   18 mm     Standard nominal flow rate   1000 1/min     Pneumatic working port   QS-10     Opperating yoltage   230V AC     Doparating yoltage   230V AC     Depresiting voltage   2 bar 10 bar     Structural design   Piston gate valve     Certification   Cl Lu s- Recognized (OL)     Maritime classification   See certificate     Degree of protection   IP65     With plug socket   as per IEC 60529     Nominal width   8 mm     Type code   CPE18     Schaust air function   With flow control option     Sealing principle   Soft     Mounting position   Any     Manual override   Detenting via accessory     Non-detenting   Soft     Symbol   00991013     Valve position ID   Label holder     Lap   009%     Duty cycle   100%     Max. negative test pulse with 0 signal   3300 µS     Max. negative test pulse on 1 signal   3100 µS	Feature	Value
Width 18 mm   Standard nominal flow rate 1000 l/min   Pneumatic working port QS-10   Operating voltage 230V AC   Operating voltage 2 bar 10 bar   Structural design Piston gate valve   Certification c UL us · Recognized (OL)   Maritime classification See certificate   Degree of protection IP65   With plug socket as per IEC 60529   Nominal width 8 mm   Type code CPE18   Exhaust air function With flow control option   Sealing principle Soft   Mounting position Any   Manual override Detenting via accessory   Non-detenting Flot - controlled   Flot ai supply port Internal   Flot ai supply port Internal   Flow direction Non-reversible   Symbol Oogerlap   Chargeover time 13 ms   Duty cycle 100%   Max. negative test pulse with 0 signal 3300 µs   Max. negative test pulse with 0 signal 3100 µs   Coll characteristics 230	Valve function	5/2, bistable
Dome     Standard nominal flow rate   1000 l/min     Pneumatic working port   QS-10     Operating pressure   2 bar 10 bar     Structural design   Piston gate valve     Certification   c UL us - Recognized (0L)     Maritime classification   See certificate     Degree of protection   IP65     With plug socket as per IEC 60529   See     Nominal width   8 mm     Seal of CPE18   Set     Exhaust air function   With flow control option     Sealing principle   Soft     Mounting position   Any     Manual override   Detenting via accessory Non-detenting     Pilot -controlled   Pilot-controlled     Pilot air supply port   Internal     Flow direction   Non-reversible     Symbol   00991013     Valve positive test pulse with 0 signal   3300 µs     Max. negative test pulse on 1 signal   3100 µs     Coll characteristics   200 VAC. 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA     Permissible voltage fluctuations   15 % / +10 %     Operation with oil	Actuation type	Electrical
Determine   Determine     Preunatic working port   QS-10     Operating voltage   230V AC     Operating pressure   2 bar 10 bar     Structural design   Piston gate valve     Certification   c UL us - Recognized (0L)     Maritime classification   See certificate     Degree of protection   IP65     With plug socket as per IEC 60529   With plug socket as per IEC 60529     Nominal width   8 mm     Type code   CPE18     Exhaust air function   With flow control option     Sealing principle   Soft     Mounting position   Any     Manual override   Detenting via accessory Non-detenting     Vipe of control   Pilot-controlled     Pilot air supply port   Internal     Flow direction   Non-reversible     Symbol   00991013     Valve position ID   Label holder     Lap   Overlap     Changeover time   13 ms     Duty cycle   100%     Max. negative test pulse on 1 signal   3300 µs     Max. negative	Width	18 mm
Deperating voltage 230V AC   Operating pressure 2 bar 10 bar   Structural design Piston gate valve   Certification c UL us - Recognized (0L)   Martime classification See certificate   Degree of protection IP65   With plug socket as per IEC 60529   Nominal width 8 mm   Type code CPE18   Exhaust air function Soft   Sealing principle Soft   Mounting position Any   Manual override Detenting wia accessory Non-detenting   Vipe of control Pilot-controlled   Pilot air supply port Internal   Flow direction Non-reversible   Symbol 00991013   Valve position ID Label holder   Clap Overlap   Duty cycle 100%   Max. negative test pulse on 1 signal 3300 µs   Max. negative test pulse on 1 signal 3100 µs   Col characteristics 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA   Permissible voltage fluctuations -15 % / +10 %   Operating medium Compressed air as per ISD 8573-1:20	Standard nominal flow rate	1000 l/min
Operating pressure 2 bar 10 bar   Structural design Piston gate valve   Certification c UL us - Recognized (OL)   Maritime classification See certificate   Degree of protection PP65   With plug socket as per IEC 60529   Nominal width 8 mm   Type code CPE18   Exhaust air function With flow control option   Sealing principle Soft   Mounting position Any   Detenting via accessory Non-detenting   Wounting position Any   Manual override Detenting via accessory   Non-detenting Non-detenting   Symbol Non-reversible   Symbol Non-reversible   Symbol Overlap   Chargeover time 13 ms   Duty cycle 100%   Max. negative test pulse on 1 signal 3100 µs   Coil characteristics 230 VAC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA   Permissible voltage fluctuations -15 % / +10 %   Coil characteristics -15 % / +10 %   Operating medium Compreseed air as per IS0 08573-1:2	Pneumatic working port	QS-10
Structural design Piston gate valve   Certification c UL us - Recognized (OL)   Maritime classification See certificate   Degree of protection IP65   With plug socket as per IEC 60529 See   Nominal width 8 mm   Type code CPE18   Exhaust air function With flow control option   Sealing principle Soft   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 00991013   Valve position ID Label holder   Lap Overlap   Changeover time 13 ms   Duty cycle 100%   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   Permissible voltage fluctuations -15 % / +10 %   Operating medium Operation with oil lubrication possible (required for further use)   Vibration resistance Transport application test with severity	Operating voltage	230V AC
Certificationc UL us - Recognized (OL)Maritime classificationSee certificateDegree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmType codeCPE18Exhaust air functionWith flow control optionSealing principleSoft Mounting positionMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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 IS0 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Operating pressure	2 bar 10 bar
Martime classification See certificate   Degree of protection IP65   With plug socket as per IEC 60529 Soft   Nominal width 8 mm   Type code CPE18   Exhaust air function With flow control option   Sealing principle Soft   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 00991013   Valve position ID Label holder   Lap Overlap   Changeover time 13 ms   Duty cycle 100%   Max. negative test pulse on 1 signal 3100 µs   Max. negative test pulse on 1 signal 3100 µs   Coll characteristics 230 VAC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA   Permissible voltage fluctuations -15 % / +10 %   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 resisitance<	Structural design	Piston gate valve
Degree of protectionIP65 With plug socket as per IEC 60529Nominal width8 mmType codeCPE18Exhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 msDuty cycle100%Max. negative test pulse on 1 signal3100 μsCil 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]Information on operating and pilot mediaOperation meth oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Certification	c UL us - Recognized (OL)
With plug socket as per IEC 60529Nominal width8 mmType codeCPE18Exhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingYpe of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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 fluctuations15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and FN 60068-2-6	Maritime classification	See certificate
Type codeCPE18Exhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 msDuty cycle300 µsMax. 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Degree of protection	With plug socket
X.Exhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 msDuty cycle100%Max. negative test pulse with 0 signal3300 µsMax. negative test pulse no 1 signal230 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Nominal width	8 mm
Sealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Type code	CPE18
Mounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Exhaust air function	With flow control option
Manual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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 mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Sealing principle	
Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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 mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Mounting position	Any
Pilot air supply portInternalFlow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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 mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Manual override	
Flow directionNon-reversibleSymbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Type of control	Pilot-controlled
Symbol00991013Valve position IDLabel holderLapOverlapChangeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Pilot air supply port	Internal
Valve position IDLabel holderLapOverlapChangeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Flow direction	Non-reversible
LapOverlapChangeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Symbol	00991013
Changeover time13 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Valve position ID	Label holder
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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Lap	Overlap
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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Changeover time	13 ms
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   Permissible voltage fluctuations -15 % / +10 %   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	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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	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]   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	Max. negative test pulse on 1 signal	3100 µs
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	Coil characteristics	230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Permissible voltage fluctuations	-15 % / +10 %
Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
EN 60068-2-6	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Vibration resistance	
	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27

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**FESTO** 

Feature	Value
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
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 exhaust air port 84	M5
Pilot air port 12	M5
Pilot air port 14	M5
Pneumatic connection 1	QS-10
Pneumatic connection 2	QS-10
Pneumatic connection 3	G1/4
Pneumatic connection 4	QS-10
Pneumatic connection 5	G1/4
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum