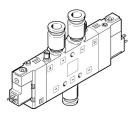
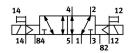
Air solenoid valve CPE24-M3H-5JS-QS-12 Part number: 163855







General operating condition

Data sheet

Actuation type Electrical Width 24 mm Standard nominal flow rate 1650 I/min Pheumatic working port Operating voltage Operating pressure Operating voltage Operating vo	Feature	Value
Width 24 mm Standard nominal flow rate 1650 l/min Pheumatic working port QS 12 Operating yoltage 230 W C Operating pressure 0.09 MPa 1 MPa Operating pressure 9.99 har 10 bar Structural design Piston gate valve Certification CL ULL 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 P65 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Determine Pilot-controlled Pilot of control Pilot controlled Pilot air supply port External Flow direction Reversible Symbol 00991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.2 MPa 1 MPa Pilot pressure MPa 0.2 MPa 1 MPa Pilot pressure MPa 0.2 MPa 1 MPa Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 0 signal 3300 µs Max. negative test pulse with 0 signal 3100 µs	Valve function	5/2, bistable
Standard nominal flow rate 1650 l/min Pneumatic working port QS-12 Operating pressure - 0.09 MPa 1 MPa Operating pressure - 0.99 bar 10 bar Structural design Piston gate valve Certification - CUL us - Recognized (OL) Maritime classification - CUL us - Recognized (OL) Maritime classification - CUL us - Recognized (OL) Maritime (assification - CUL us - Recognized (OL) Certificate (See declaration of conformity) - To UK instructions for electrical equipment UKCA marking (see declaration of conformity) - To UK instructions for electrical equipment Certificate issuing authority - UL MH19482 Degree of protection - Pie5 With plug socket as sper IEC 60529 Nominal width - 11 mm 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 - External Flow direction - Reversible Symbol - 00991016 Valve position ID - Label holder Lap - 00verlap Pilot pressure MPa - 0.2 MPa 1 MPa Pilot pressure - 2 bar 10 bar Changeover time - 25 ms Douty cycle - 100% Max. negative test pulse with 0 signal - 3300 µs Max. negative test pulse with 0 signal - 3100 µs	Actuation type	Electrical
Preumatic working port Operating voltage 230 V AC Operating pressure -0.09 MPa 1 MPa Operating pressure -0.9 bar 10 bar Structural design Piston gate valve Certification Cult us - Recognized (0t) 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 Pie55 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Pilot air supply port External Flow direction Reversible Symbol O0991016 Label holder Lap Pilot pressure MPa O.2 MPa 1 MPa Pilot pressure Days on 1 MPa Days on 1 MPa Days on 1 MPa Days on 1 MPa Days of 2 MPa 1 MPa Pilot pressure Days on 1 MPa Days on 1 MPa Days on 1 MPa Diversion Days Days on 1 MPa	Width	24 mm
Operating voltage 230V AC Operating pressure -0.09 MPa 1 MPa Operating pressure -0.99 bar 10 bar Structural design Piston gate valve Certification c UL us - Recognized (OU) 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 Pies Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Determing via accessory Non-detenting Vipe of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 0099106 Valve position ID Label holder Lap Overlap Pilot pressure MPa Out ycycle Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 0 signal	Standard nominal flow rate	1650 l/min
Operating pressure Operating operation Operating Operating pressure Operating pressure Operating operation Operating Operating operation Operating Operation Op	Pneumatic working port	QS-12
Operating pressure Operating pressure Structural design Piston gate valve Certification Cut us - Recognized (Ot) Maritime classification See certificate UKCA marking (see declaration of conformity) As per EU low voltage directive UKCA marking (see declaration of conformity) DNV-TAA000032X UL MH19482 Degree of protection Pie65 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting via accessory Nom-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Valve position ID Label holder Lap Overlap Pilot pressure DAMPa 1 MPa DA	Operating voltage	230V AC
Structural design Piston gate valve 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 Piece With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Manual override Detenting via accessory Non-detenting Pilot air supply port External Flow direction Reversible Symbol 00991016 Valve position ID Label holder Using DV Pilot P	Operating pressure	-0.09 MPa 1 MPa
Certification curve classification curve controlled principle soft control prior soft control co	Operating pressure	-0.9 bar 10 bar
Maritime classification 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 Pfe5 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pflot air supply port External Flow direction Reversible Symbol Valve position ID Label holder Lap Overlap Pflot pressure Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal	Structural design	Piston gate valve
LE marking (see declaration of conformity) As per EU low voltage directive UKCA marking (see declaration of conformity) To UK instructions for electrical equipment DNV-TAA000032X UL MH19482 Degree of protection P165 With plug socket as per IEC 60529 Nominal width 11 mm 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 External Flow direction Reversible Symbol Oo991016 Valve position ID Label holder Lap Pilot pressure MPa O.2 MPa 1 MPa Pilot pressure Changeover time 25 ms Duty cycle Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Max. negative test pulse on 1 signal	Certification	c UL us - Recognized (OL)
UKCA marking (see declaration of conformity) To UK instructions for electrical equipment DNV-TAA000032X UL MH19482 Degree of protection Power of protection In m Exhaust air function Sealing principle Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Oo991016 Valve position ID Label holder Lap Pilot pressure MPa Dity cycle Day Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Type of cost on 1 signal Type of cost on 1 overling To UK instructions for electrical equipment DNV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 DIV In H19482 With flug socket as per IEC 60529 With flug socket as per IEC 6052	Maritime classification	See certificate
DNV-TAA000032X UL MH19482 Degree of protection P65 With plug socket as per IEC 60529 Nominal width 11 mm 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 External Flow direction Reversible Symbol O0991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa O1.2 MPa 1 MPa Pilot pressure D1.2 bar Changeover time D2.5 ms Duty cycle Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal DNV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 Piet 60529 With plug socket as per IEC 60529 With plug sock as per IEC 60529 With plug socket as per IEC 60529 With plug s	CE marking (see declaration of conformity)	As per EU low voltage directive
Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm 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-controlled Pilot air supply port External Flow direction Reversible Symbol O0991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa O.2 MPa 1 MPa Pilot pressure 2 bar 10 bar Changeover time 25 ms Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 3100 µs	UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment
With plug socket as per IEC 60529 Nominal width Exhaust air function Sealing principle Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol O0991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa O.2 MPa 1 MPa Pilot pressure 2 bar 10 bar Changeover time Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal With flug socket as per IEC 60529 With flow control option Dit mm With flow control option Swith flow control option Soft Any Meth flow control option Soft Any With flow control option Soft Any Mith flow control option Soft Any With flow control option Soft Any Meth flow control option Soft Any Meth flow control option Soft Any With flow control option Any With flow control option Any With flow control option Soft Any With flow control option Soft Any With flow control option Any With flow co	Certificate issuing authority	
Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled External Flow direction Symbol Valve position ID Label holder Lap Overlap Pilot pressure MPa Detenting via Accessory Non-detenting Reversible Symbol O0991016 Valve position ID Label holder Overlap Ditot pressure MPa Detenting via accessory Non-detenting External External Reversible O0991016 Valve position ID Label holder Overlap Overlap Ditot pressure MPa Detenting via accessory Non-detenting External Any Reversible Symbol O0991016 Label holder Overlap Overlap	Degree of protection	With plug socket
Sealing principle Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Valve position ID Label holder Lap Overlap Pilot pressure MPa O.2 MPa 1 MPa Pilot pressure 2 bar 10 bar Changeover time Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Any Detenting via accessory Non-detenting Valoue External External External Overlap Overlap Overlap Overlap 100% Max. negative test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal	Nominal width	11 mm
Mounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionReversibleSymbol00991016Valve position IDLabel holderLapOverlapPilot pressure MPa0.2 MPa 1 MPaPilot pressure2 bar 10 barChangeover time25 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Exhaust air function	With flow control option
Manual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionReversibleSymbol00991016Valve position IDLabel holderLapOverlapPilot pressure MPa0.2 MPa 1 MPaPilot pressure2 bar 10 barChangeover time25 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Sealing principle	Soft
Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol 00991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.2 MPa 1 MPa Pilot pressure Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Non-detenting Non-detent	Mounting position	Any
Pilot air supply port Flow direction Reversible Symbol 00991016 Valve position ID Label holder Overlap Pilot pressure MPa 0.2 MPa 1 MPa Pilot pressure Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal External External External External External External External External External Reversible Seversible 100991016 Label holder Overlap Overlap 102 MPa 1 MPa 2 bar 10 bar 25 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs 3300 µs	Manual override	
Flow direction Reversible Symbol 00991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.2 MPa 1 MPa Pilot pressure 2 bar 10 bar Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 3100 µs	Type of control	Pilot-controlled
Symbol 00991016 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.2 MPa 1 MPa Pilot pressure 2 bar 10 bar Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs	Pilot air supply port	External
Valve position ID Label holder Overlap Pilot pressure MPa Pilot pressure 2 bar 10 bar Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 3100 µs	Flow direction	Reversible
Derlap Overlap Ol.2 MPa 1 MPa Pilot pressure MPa Pilot pressure 2 bar 10 bar Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 3100 µs	Symbol	00991016
Pilot pressure MPa 0.2 MPa 1 MPa 2 bar 10 bar Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs	Valve position ID	Label holder
Pilot pressure 2 bar 10 bar Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs	Lap	Overlap
Changeover time 25 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs	Pilot pressure MPa	0.2 MPa 1 MPa
Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs	Pilot pressure	2 bar 10 bar
Max. positive test pulse with 0 signal 3300 μs Max. negative test pulse on 1 signal 3100 μs	Changeover time	25 ms
Max. negative test pulse on 1 signal 3100 μs	Duty cycle	100%
	Max. positive test pulse with 0 signal	3300 μs
Coil characteristics 230 V AC: 50/60 Hz, initial power 3.0 VA, holding power 2.4 VA	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

Feature	Value
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
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
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
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-12
Pneumatic connection 2	QS-12
Pneumatic connection 3	G3/8
Pneumatic connection 4	QS-12
Pneumatic connection 5	G3/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum