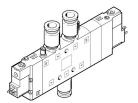
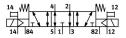
Air solenoid valve CPE24-M2H-5/3ES-QS-10 Part number: 170310

FESTO





General operating condition

Data sheet

Actuation type Electrical	Feature	Value
Width 24 mm Standard nominal flow rate 1250 l/min Pneumatic working port Q5-10 Operating voltage 110V AC Operating pressure -0.09 MPa 1 MPa Operating pressure 9-0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification cultus - 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 UN-TAAD00032X UL MH19482 Degree of protection Piess Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Determine Piesser Non-detenting Type of control Pilot-controlled Pilot arisupply port External Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure 2.5 bar 10 bar Switching time 55 ms	Valve function	5/3, exhausted
Standard nominal flow rate 1250 I/min Pneumatic working port QS-10 Operating pressure -0.09 MPa 1 MPa Structural design Piston gate valve Reset method Mechanical spring Certification CUL us - Recognized (OL) Maritime classification See certificate See declaration of conformity) UKCA marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority UKCA marking (see declaration of conformity) Degree of protection Pfe5 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot controlled Pilot controlled Pilot controlled Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Pilot pressure MPa Switching time off 55 ms On switching time 1250 MFM Darving MPa Pilot my with plug Degree of Position Non-detenting Deservation Non-deservation Non-deservati	Actuation type	Electrical
Pneumatic working port Operating voltage 110 V AC Operating pressure -0.09 MPa 1 MPa -0.09 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification cUL 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) DIV-TAA000032X UL MH19482 Degree of protection Pfe5 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot air supply port Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Pilot pressure MPa Pilot pressure MPa Pilot pressure Switching time off 55 ms Son witching time 25 ms Valve position gifte Soft 10 bar Switching time 55 ms	Width	24 mm
Operating voltage	Standard nominal flow rate	1250 l/min
Operating pressure Operating operative Operating Operating operative Operating Operating Operating operative Operating Ope	Pneumatic working port	QS-10
Operating pressure Operating pressure Operating pressure Piston gate valve Reset method Mechanical spring Certification Certification 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 Operating authority DNV-TAA000032X UL MH19482 Degree of protection Piessure Nominal width 11 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot-air supply port External Flow direction Reversible Symbol Joogs 102 Valve position ID Label holder Lap Diot pressure Overlap Pilot pressure D. 55 ms Switching time off Os witching time 25 ms	Operating voltage	110V AC
Structural design Piston gate valve Reset method Mechanical spring Certification CUL 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 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 Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lape Overlap Pilot pressure MPa Pilot pressure 2.5 bar 10 bar Switching time off 55 ms On switching time 25 ms	Operating pressure	-0.09 MPa 1 MPa
Reset method Mechanical 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 UKCA marking authority DNV-TAA000032X UL MH19482 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 air supply port External Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Diot pressure MPa Dougle Soms On switching time off Soms On switching time of Soms See certificate As per EU low voltage directive Use (OL) As per EU low voltage directive Use (OL) As per EU low voltage directive Use (OL) As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive As per EU low voltage directive DNY TAA0000322 As per EU low voltage directive DNY TAA0000322 UL MH1942 DNY TAA0000322 DNY TAA0000322 Nominal volt in	Operating pressure	-0.9 bar 10 bar
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) DNV-TAA000032X UL MH19482 Degree of protection Pie65 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 Pilot air supply port External Flow direction Reversible Symbol Valve position ID Label holder Lap Doverlap Pilot pressure 2.5 bar 10 bar Switching time off On switching time CE UL us - Recognized (OL) See certificate Cettificate See certificate See certificate Cetture See certificate DNV-TAA000032X UL MH19482 DIV MH19482 DIV MH19482 Div JU MH194 Div JU MH19482 Div JU MH194 Div JU MH19482 Div JU MH194	Structural design	Piston gate valve
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 Detrificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection P665 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 Pilot controlled Pilot air supply port External Flow direction Reversible Symbol Valve position ID Label holder Lap Overlap Pilot pressure 2.5 MPa 1 MPa Switching time off 55 ms On switching time 25 ms	Reset method	Mechanical spring
CE 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 Ple5 With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function With flow control option Sealing principle Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol Oo991032 Valve position ID Label holder Lap Overlap Pilot pressure Details in JMPa 2.5 bar 10 bar Switching time off On switching time 25 ms	Certification	c UL us - Recognized (OL)
UKCA marking (see declaration of conformity) Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Ploss With plug socket as per IEC 60529 Nominal width 11 mm Exhaust air function Sealing principle Mounting position Manual override Type of control Pilot air supply port External Flow direction Reversible Symbol Ooselap Pilot pressure Pilot pressure Description Any Overlap Pilot pressure 2.5 bar 10 bar Switching time off On switching time off On switching time DINV-TAA000032X UL Mintsuctions for electrical equipment TO UK instructions for electrical equipment DNV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 Pilot socket as per IEC 60529 With plug socket a	Maritime classification	See certificate
Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width I1 mm 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 Symbol Valve position ID Label holder Lap Overlap Pilot pressure DNV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 DEMANDAGE With plug socket as per IEC 60529 Northol Option Soft Any Detenting via accessory Non-detenting Pilot-controlled Pilot-controlled Pilot air supply port External Flow direction Reversible Overlap Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar Switching time off On switching time 25 ms	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 air supply port External Flow direction Reversible Symbol O0991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure Switching time off 55 ms On switching time 25 ms	UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment
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Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot air supply port External Flow direction Symbol Valve position ID Label holder Lap Diverlap Pilot pressure MPa Pilot pressure Switching time off On switching time With flow control option With flow control option Soft Any Mith flow control option Soft Any Mith flow control option Soft Any Mith flow control option Soft Any Set In Mith flow control option Any Soft Any Set In Mith flow control option Any Soft Any Set In Mith flow control option Any Soft Any Set In Mith flow control option Any Soft Any Soft Any Set In Mith flow control option Any Set In Mith flow control Any Set In Mith flow control option Any Set In Mith flow control Better In Mith flow control Set In Mith f	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 Symbol Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure Switching time off Detenting via accessory Non-detenting Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Detenting via accessory Non-detenting Pilot-controlled Pilot-controlled Pilot-controlled Poliot-controlled External Reversible Oversible Overlap Overlap Overlap Pilot pressure MPa O.25 MPa 1 MPa 2.5 bar 10 bar Switching time off 55 ms On switching time	Nominal width	11 mm
Mounting position Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Oo991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure Switching time off 55 ms On switching time 25 ms	Exhaust air function	With flow control option
Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure Switching time off 55 ms On switching time 25 ms	Sealing principle	Soft
Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol O0991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa Pilot pressure Switching time off On switching time Pilot controlled Dilot-controlled External Pilot-controlled Oversible Symbol Oversible Switching time off Overlap Overlap Switching time off S5 ms On switching time 25 ms	Mounting position	Any
Pilot air supply port Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa Pilot pressure 2.5 bar 1 MPa Pilot pressure Switching time off 55 ms On switching time 25 ms	Manual override	
Flow direction Reversible Symbol 00991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar Switching time off 55 ms On switching time 25 ms	Type of control	Pilot-controlled
Symbol 00991032 Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar Switching time off 55 ms On switching time 25 ms	Pilot air supply port	External
Valve position ID Label holder Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar Switching time off 55 ms On switching time 25 ms	Flow direction	Reversible
Description of the state of the	Symbol	00991032
Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar Switching time off 55 ms On switching time 25 ms	Valve position ID	Label holder
Pilot pressure 2.5 bar 10 bar Switching time off 55 ms On switching time 25 ms	Lap	Overlap
Switching time off 55 ms On switching time 25 ms	Pilot pressure MPa	0.25 MPa 1 MPa
On switching time 25 ms	Pilot pressure	2.5 bar 10 bar
	Switching time off	55 ms
Duty cycle 100%	On switching time	25 ms
	Duty cycle	100%
Max. positive test pulse with 0 signal 3300 μs	Max. positive test pulse with 0 signal	3300 μs

Feature	Value
Max. negative test pulse on 1 signal	3100 µs
Coil characteristics	110 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
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 ℃ 50 ℃
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	G3/8
Pneumatic connection 4	QS-10
Pneumatic connection 5	G3/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum