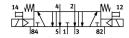
Air solenoid valve CPE18-M2H-5/3E-1/4 Part number: 170285

FESTO





General operating condition

Data sheet

Actuation type Electrical Width 18 mm Standard nominal flow rate 1200 l/min Pheumatic working port Operating yotlage 110V AC Operating pressure Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Structural design Reset method Mechanical spring Certification Cut us - Recognized (OL) Maritime classification Cet and classification See certificate Cet 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 UL MH19482 Degree of protection Ple56 With plug socket as per EL 60529 Nominal width 8 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 Internal Flow direction Non-reversible Symbol Oo991036 Valve position ID Label holder Lap Overlap Switching time Do wy cycle Max, positive test pulse with 0 signal Max, negative test pulse with 0 signal Max, negative test pulse with 0 signal	Feature	Value
Width 18 mm Standard nominal flow rate 1200 l/min Pneumatic working port 61/4 Operating voltage 110V AC Operating pressure 0.25 MPa 1 MPa Operating pressure 12.5 bar 10 bar Structural design Pisson Mechanical spring Certification culture and sufficient of the control operating pressure 2.5 bar 10 bar Structural design Pisson gate valve Reset method Mechanical spring Certification culture - Recognized (OL) Maritime classification culture - See certificate CE marking (see declaration of conformity) See certificate CE marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19/482 Degree of protection Pipson See See Mith plug socket as per IEC 60529 Nominal width 8 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 Internal Flow direction Non-reversible Symbol 00991036 Valve position ID Label holder Lap Switching time off 0 38 ms On switching time off 0 38 ms On switching time off 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal	Valve function	5/3, exhausted
Standard nominal flow rate 1200 l/min 61/4 Operating port G1/4 Operating pressure 0.25 Mar 1 MPa Operating pressure 2.5 har 10 bar Structural design Fliston gate valve 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 Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 8 mm EXhaust air function 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 O0991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time off On switching time Duty cycle Max. regative test pulse with 0 signal Max. regative test pulse with 0 signal Max. regative test pulse with 0 signal Max. regative test pulse on 1 signal	Actuation type	Electrical
Pneumatic working port Operating voltage 110 V AC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification culus - 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-TAA000032X UL MH19482 Degree of protection Ple5 With plug socket as per IEC 60529 Nominal width 8 mm Exhaust air function Seating 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 Oo991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 100 West, page 100 West Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse with 0 signal	Width	18 mm
Operating voltage 100 AC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 1 MPa Operating pressure 2.5 bar 1 MPa Operating pressure 2.5 bar 1 MPa Operating pressure 9.25 bar 1 MPa Operating pressure 9.25 bar 1 MPa Operating 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 UNCA marking (see declaration of conformity) UNV-TAA000032X UL MH19482 Degree of protection PiP65 With plug socket as per IEC 60529 Nominal width 8 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Operating via accessory Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991036 Valve position ID Label holder Lap Overlap Switching time off 08 8 ms On switching time Operations of the special pulse with 0 signal 00 ps Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 0 signal 3100 µs	Standard nominal flow rate	1200 l/min
Operating pressure Operating pressure 2.5 bar 1 0 bar Structural design Piston gate valve Reset method 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 UKCA marking (see of protection Piessuing authority UKCA marking (see of eclaration of conformity) To UK instructions for electrical equipment Certificate issuing authority UKCA marking (see of eclaration of conformity) UKCA marking (see of eclaration of conformity) To UK instructions for electrical equipment Certificate issuing authority UKCA marking (see of eclaration of conformity) UKCA marking (see of eclaration of conformity) UKCA marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority UKCA marking (see of eclaration of conformity) UKCA marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority UKCA marking (see declaration of conformity) To UK instructions for electrical equipment Certificate UKCA marking discretions for electrical equipment Certificate UKCA marking (see declaration of conformity) UKCA marking tiple socket as per EU low voltage directive With plug socket as per EU low voltage directive UKCA marking discretions for electrical equipment UKCA per EU low voltage directive UKCA per EU low voltage directive UKCA per EU low voltage directive UKCA per EU low voltage direc	Pneumatic working port	G1/4
Operating pressure Deparating pressure Structural design Reset method Mechanical spring Certification Culus - Recognized (OL) Maritime classification See certificate CE marking (see declaration of conformity) Marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority UKCA marking (see declaration of conformity) Doyn-TAA000032X UL MH19482 Degree of protection P65 With plug socket as per IEC 60529 Nominal width 8 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 Internal Flow direction Non-reversible Symbol Oo991036 Valve position ID Label holder Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal	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 UIXCA marking (see declaration of conformity) To UK instructions for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Piece of protection With plug socket as per IEC 60529 Nominal width 8 mm Exhaust air function 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 00991036 Valve position ID Label holder Lap Overlap Switching time off On switching time Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 0 signal 3100 µs	Operating pressure	0.25 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 Certificate issuing authority DNY-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 8 mm 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 00991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 20 ms Duty cycle 100% Max. negative test pulse with 0 signal 3300 μs Max. negative test pulse used to 1 signal 3100 μs	Operating pressure	2.5 bar 10 bar
Certification curve comments of the comments	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 Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Posses of protection Posses of protection Nominal width Rexhaust air function Sealing principle 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 Oo991036 Valve position ID Label holder Lap Switching time off On switching time Dows Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal	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 Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP6 With plug socket as per IEC 60529 Nominal width 8 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 Internal Flow direction Non-reversible Symbol 00991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 20 ms Duty cycle 100% Max. negative test pulse with 0 signal 3300 μs Max. negative test pulse on 1 signal 3100 μs	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 Smm Exhaust air function Sealing principle Mounting position Manual override Type of control Pilot air supply port Internal Flow direction Symbol Valve position ID Label holder Lap Overlap Switching time off On switching time DIV-TAA000032X UL MH19482 DNV-TAA000032X UL MH19482 DRV-TAA000032X UL MH19482 BMW BMM BMM BMM BMM BMM BMM BM	Maritime classification	See certificate
Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pi65 With plug socket as per IEC 60529 Nominal width 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 Valve position ID Label holder Lap Overlap Switching time off On switching time 20 ms Duty cycle Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Non-geative test pulse on 1 signal Non-geative test pulse on 1 signal Non-geative test pulse with 0 signal Non-geative test pulse with 0 signal Non-geative test pulse on 1 signal	CE marking (see declaration of conformity)	As per EU low voltage directive
Degree of protection P65 With plug socket as per IEC 60529 Nominal width 8 mm	UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment
Nominal width8 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991036Valve position IDLabel holderLapOverlapSwitching time off38 msOn switching time20 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Certificate issuing authority	
Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot air supply port Internal Flow direction Non-reversible Symbol Valve position ID Label holder Lap Overlap Switching time off On switching time Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal	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 Internal Flow direction Non-reversible Symbol O0991036 Valve position ID Label holder Lap Overlap Switching time off On switching time Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal	Nominal width	8 mm
Mounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991036Valve position IDLabel holderLapOverlapSwitching time off38 msOn switching time20 msDuty cycle100%Max. positive test pulse with 0 signal3100 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 portInternalFlow directionNon-reversibleSymbol00991036Valve position IDLabel holderLapOverlapSwitching time off38 msOn switching time20 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Sealing principle	Soft
Type of controlNon-detentingPilot controlledPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991036Valve position IDLabel holderLapOverlapSwitching time off38 msOn switching time20 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Mounting position	Any
Pilot air supply port Flow direction Non-reversible Symbol 00991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 20 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Internal Non-reversible 00991036 Label holder 2abel holder 100% 38 ms 300 ms 3100 µs	Manual override	
Flow direction Non-reversible Symbol 00991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 20 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Non-reversible Non-reve	Type of control	Pilot-controlled
Symbol 00991036 Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 20 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	Internal
Valve position ID Label holder Lap Overlap Switching time off 38 ms On switching time 20 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 3100 µs	Flow direction	Non-reversible
LapOverlapSwitching time off38 msOn switching time20 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Symbol	00991036
Switching time off 38 ms On switching time 20 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
On switching time20 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Lap	Overlap
Duty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μs	Switching time off	38 ms
Max. positive test pulse with 0 signal 3300 μs Max. negative test pulse on 1 signal 3100 μs	On switching time	20 ms
Max. negative test pulse on 1 signal 3100 μs	Duty cycle	100%
	Max. positive test pulse with 0 signal	3300 μs
Coil characteristics 110 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	110 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
Ambient temperature	-5 °C 50 °C
Product weight	280 g
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	G1/4
Pneumatic connection 2	G1/4
Pneumatic connection 3	G1/4
Pneumatic connection 4	G1/4
Pneumatic connection 5	G1/4
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum