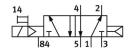
Solenoid valve CPE18-M3H-5L-1/4 Part number: 163786

FESTO





General operating condition

Data sheet

Type of actuation	Feature	Value
Construction width Standard nominal flow rate (standardised to DIN 1343) 1500 l/min pneumatic working port G1/4 Operating yotlage Operating pressure Piston gate valve Pheumatic spring Approval C UL us - Recognized (OL) Maritime classification See certificate CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Onv-TAA000032X UL MH19-82 Degree of protection With plug socket To IEC 60529 Nominal size S mm Exhaust-air function With flow control option Sealing principle Soft Mounting position Mounting position Optional Manual override Detenting via accessory Non-detenting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Ooye1ap Switching time on Dotty cycle Max. positive test pulse with 1 signal 1300 µs Max. negative test pulse with 1 signal	Valve function	5/2-way, monostable
Standard nominal flow rate (standardised to DIN 1343) pneumatic working port Operating yoltage 230V AC Operating pressure Operating pressure Operating pressure 2.5 bar 10 bar Design Piston gate valve Pneumatic spring Approval CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UN 'ray00032X UN 'H19482 Degree of protection Possing authority DNV-TAA000032X UN 'H19482 Degree of protection Possing barn with plug socket to IcE 60529 Nominal size Ramanual override Mounting position Manual override Detenting via accessory Non-detenting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Valve position code Inscription label holder Inscription label holder Jow Nor-Response with 1 signal Max. positive test pulse with 1 signal Max. negative test pulse with 1 signal Max. negative test pulse with 1 signal Max. negative test pulse with 1 signal	Type of actuation	Electric
pneumatic working port Operating voltage 230V AC Operating pressure 0.25 bar 10 bar Design Piston gate valve Type of reset Pneumatic spring Approval c UL us - Recognized (OL) Maritime classification CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket To ICC 60529 Nominal size B mm Exhaust-air function Soft Mounting position Optional Manual override Detenting via accessory Non detenting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Oo991023 Volvelap Switching time of Switching time on Date visible with 1 signal Max. positive test pulse with 1 signal Max. negative test pulse with 1 signal	Construction width	18 mm
Operating voltage 230V AC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Operating pressure 2.5 bar 10 bar Design Piston gate valve Type of reset Pneumatic spring Approval cUL us - Recognized (OL) Maritime classification See certificate CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pf5 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position optional Manual override Optional Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder Iap Overlap Switching time on 26 ms Duty cycle 100% Max. negative test pulse with 1 signal 3100 µs	Standard nominal flow rate (standardised to DIN 1343)	1500 l/min
Operating pressure Operating pressure 2.5 bar 1 0 bar Design Piston gate valve Type of reset Approval CE mark (see declaration of conformity) To EU Low Voltage Directive CErtificate issuing authority UIL MH19482 Degree of protection Piese Nominal size Exhaust-air function Sealing principle Soft Mounting position Operating pressure Operating pressure Operating pressure Operating size Operation O	pneumatic working port	G1/4
Derating pressure Design Piston gate valve Preset Approval C UL us - Recognized (OL) Maritime classification See certificate CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAAO00032X UL MH19482 Degree of protection P65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Pilot air supply Internal Flow direction Non-reversible Symbol O0991023 Valve position code Iap Overlap Switching time on 26 ms Duty cycle Max. negative test pulse with 1 signal Max. negative test pulse with 1 signal Max. negative test pulse with 1 signal C UL us - Recognized (OL) Marting date valve Piston gate valve Poematic spring Poem	Operating voltage	230V AC
Piston gate valve Type of reset Approval CUL us - Recognized (OL) Maritime classification See certificate CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pies B mm Exhaust-air function With plug socket To IEC 60529 Nominal size Smm Exhaust-air function Sealing principle Soft Mounting position Optional Manual override Detenting via accessory Non-detenting Pilot acruated Pilot air supply Internal Flow direction Non-reversible Symbol Valve position code Inscription label holder Iap Overlap Switching time off Overlap Switching time on Duty cycle Inow Max. positive test pulse with 1 signal Max. negative test pulse with 1 signal Je pulse with 2 signal Je pulse with 3 signal Je pulse with 2 signal Je pulse wi	Operating pressure	0.25 MPa 1 MPa
Type of reset Approval Approval C UL us - Recognized (OL) Maritime classification See certificate CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pie65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function Sealing principle Soft Mounting position Optional Manual override Detenting via accessory Non-detenting Pilot air supply Internal Flow direction Non-reversible Symbol Valve position code Inscription label holder lap Overlap Switching time on Duty cycle Max. negative test pulse with 0 signal Max. negative test pulse with 1 signal Pilots witage with 1 signal Pilot us 300 μs Max. negative test pulse with 1 signal	Operating pressure	2.5 bar 10 bar
Approval c UL us - Recognized (OL) Maritime classification CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Type of piloting Pilot air supply Internal Flow direction Non-reversible Symbol Oo991023 Valve position code Inscription label holder John Switching time off 20 ms Switching time off 20 ms Switching time on Duty cycle Max. negative test pulse with 1 signal 3100 μs Max. negative test pulse with 1 signal	Design	Piston gate valve
Maritime classification See certificate CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With Plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position optional Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. negative test pulse with 0 signal 3300 μs Max. negative test pulse with 1 signal 3100 μs	Type of reset	Pneumatic spring
CE mark (see declaration of conformity) To EU Low Voltage Directive CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position optional Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. negative test pulse with 0 signal 3300 μs Max. negative test pulse with 1 signal 3100 μs	Approval	c UL us - Recognized (OL)
CE marking (see declaration of conformity) To UK regulations for electrical equipment Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position optional Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. negative test pulse with 0 signal 3300 μs Max. negative test pulse with 1 signal 3100 μs	Maritime classification	See certificate
Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection P65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Mounting position Manual override Detenting via accessory Non-detenting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Valve position code Inscription label holder Iap Overlap Switching time off 20 ms Switching time on Duty cycle Max. negative test pulse with 0 signal Max. negative test pulse with 1 signal DNV-TAA000032X UL MH19482 IP65 With plug socket To IEC 60529 Noth Plug Socket To IEC 6052	CE mark (see declaration of conformity)	To EU Low Voltage Directive
Degree of protection IP65 With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Oo991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal IRC Mith Plag socket With plug socket To IEC 60529 Nem Be mm Internal Plow control option Detenting via accessory Non-detenting Internal Detenting via accessory Non-detenting Internal Internal Internal Internal Internal Internal Inscription label holder Inscription label holder Inscription label holder Inscription label holder Internal Internal Internal Internal Internal Inscription label holder	CE marking (see declaration of conformity)	To UK regulations for electrical equipment
With plug socket To IEC 60529 Nominal size 8 mm Exhaust-air function With flow control option Sealing principle Soft Mounting position optional Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 1 signal 3100 µs	Certificate issuing authority	_
Exhaust-air function Sealing principle Soft Mounting position Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on Duty cycle Max. positive test pulse with 0 signal Mith flow control option With flow control option Option Internal Internal Internal Internal Internal Overlap Switching time off 20 ms Switching time off 30 ms Switching time on Duty cycle Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 1 signal	Degree of protection	With plug socket
Sealing principle Mounting position Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on Duty cycle Max. positive test pulse with 0 signal Mounting principle Soft Optional Detenting via accessory Non-detenting via accessory Non-det	Nominal size	8 mm
Mounting position optional Manual override Detenting via accessory Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 μs Max. negative test pulse with 1 signal 3100 μs	Exhaust-air function	With flow control option
Manual overrideDetenting via accessory Non-detentingType of pilotingPilot actuatedPilot air supplyInternalFlow directionNon-reversibleSymbol00991023Valve position codeInscription label holderlapOverlapSwitching time off20 msSwitching time on26 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse with 1 signal3100 μs	Sealing principle	Soft
Type of pilotingPilot actuatedPilot air supplyInternalFlow directionNon-reversibleSymbol00991023Valve position codeInscription label holderlapOverlapSwitching time off20 msSwitching time on26 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse with 1 signal3100 μs	Mounting position	optional
Pilot air supply Flow direction Non-reversible Symbol Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Internal Intern	Manual override	
Flow direction Non-reversible Symbol 00991023 Valve position code Inscription label holder lap Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Non-reversible Non-reve	Type of piloting	Pilot actuated
Symbol00991023Valve position codeInscription label holderlapOverlapSwitching time off20 msSwitching time on26 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse with 1 signal3100 μs	Pilot air supply	Internal
Valve position code Inscription label holder Overlap Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal 3100 μs	Flow direction	Non-reversible
lapOverlapSwitching time off20 msSwitching time on26 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse with 1 signal3100 μs	Symbol	00991023
Switching time off 20 ms Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 1 signal 3100 µs	Valve position code	Inscription label holder
Switching time on 26 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse with 1 signal 3100 µs	lap	Overlap
Duty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse with 1 signal3100 μs	Switching time off	20 ms
Max. positive test pulse with 0 signal 3300 μs Max. negative test pulse with 1 signal 3100 μs	Switching time on	26 ms
Max. negative test pulse with 1 signal 3100 μs	Duty cycle	100%
	Max. positive test pulse with 0 signal	3300 μs
Characteristic coil data 230 V AC: 50/60 Hz, pick-up power 3.0 VA, holding power 2.4 VA	Max. negative test pulse with 1 signal	3100 μs
	Characteristic coil data	230 V AC: 50/60 Hz, pick-up power 3.0 VA, holding power 2.4 VA

Feature	Value
Permissible voltage fluctuations	-15%/+10%
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C 50 °C
Ambient temperature	-5 °C 50 °C
Product weight	220 g
Electrical connection	Туре С
Type of mounting	With through-hole
Pilot exhaust port 82	M5
Pilot exhaust port 84	M5
Pilot air port 12	M5
Pilot air port 14	M5
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 2	G1/4
Pneumatic connection, port 3	G1/4
Pneumatic connection, port 4	G1/4
Pneumatic connection, port 5	G1/4
Note on materials	RoHS-compliant
Material seals	NBR
Material housing	Die-cast aluminium