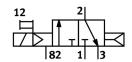
Air solenoid valve CPE24-M1H-3GL-QS-12 Part number: 163181







General operating condition

Actuation type Electrical Width 24 mm Standard nominal flow rate 1650 I/min Pheumatic working port Operating yoltage Operating pressure Operating pressure Operating pressure Operating pressure 2.5 bar 10 bar Structural design Reset method Pheumatic spring Certification Cut us - Recognized (OL) Maritime classification Certificate issuing authority DNN-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width Soft Mounting position Any Manual override Delenting via accessory Non-detenting Type of control Pilot air supply port Internal Flow direction Non-reversible Symbol Valve position ID Labe holder Lap Overlap Switching time off On switching time So ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Goli characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Compressed air as per ISO 8573-1:2010 [7:4:4]	Feature	Value
Width 24 mm Standard nominal flow rate 1650 l/min Pneumatic working port QS-12 Operating yoltage 24V DC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 10 bar Structural design Plestong age valve Reset method Pneumatic spring Certification c ul. u.s - Recognized (OL) Maritime classification See certificate Certificate issuing authority DNV-TAA000032X UL. MH19482 Degree of protection 186 With plug socket as per 1C 60529 Nominal width 11 mm 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 Operating via Desired Overlap Switching time off 33 ms On switching time off 33 ms On switching time off 33 ms On switching time off 100% Max. positive test pulse with 0 signal 3300 µs Max. positive test pulse with 0 signal 3100 µs Gompressed air as per 1SO 8573-1:2010 [7:4:4]	Valve function	3/2, closed, monostable
Standard nominal flow rate Pneumatic working port Q5-12 Operating yoltage Q5-12 Operating pressure Q5-12 Operating pressure Q5-12 Operating pressure Q5-15 bar 1 MPa Operating pressure Q5-25 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification Certification Certificate issuing authority DNV-TAA000032X UL MH19A82 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot controlled Pilot controlled Pilot is ruspply port Internal Flow direction Non-reversible Symbol Oo991655 Valve position ID Label holder Lap Overlap Switching time off On switching time On switching time Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Governance of the previous part of the previous part of the previous per long per long (7-444) Operating medium Compressed air as per ISO 8573-1:2010 [7-444]	Actuation type	Electrical
Pneumatic working port Operating voltage 24V DC Operating pressure Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification Certification Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pleto gate valve Nominal width 11 mm Sealing principle Soft Mounting position Any Manual override Detenting val accessory Non-detenting Type of control Pilot air supply port Internal Flow direction Non-reversible Symbol Valve position ID Labe holder Lap Overlap Switching time off On switching time Son supplied test pulse with 0 signal Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse with 0 signal Geremins ble Volenting medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Width	24 mm
Operating voltage 24V DC Operating pressure 0.25 MPa 1 MPa Operating pressure 2.5 bar 1 MPa Operating pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification CUL us - Recognized (OL) Maritime classification See certificate Certificate issuing authority UN-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991655 Valve position ID Label holder Lap Overlap Switching time of 03 3ms On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal 3100 µs Max. peative test pulse on 1 signal 3100 µs Derating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Standard nominal flow rate	1650 l/min
Operating pressure Operating pressure 2.5 bar 1 0 bar Structural design Piston gate valve Reset method Pneumatic spring Certification Cut us - Recognized (OL) Maritime classification See certificate Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pie65 With plug socket as per IEC 60529 Nominal width 11 mm 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 Operating time off Overlap Switching time On switching time Soms On switching time Duty cycle Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Compressed air as per ISO 8573-1:2010 [7:4:4]	Pneumatic working port	QS-12
Operating pressure Departing pressure 2.5 bar 10 bar Structural design Piston gate valve Reset method Peneumatic spring Certification Cult us - Recognized (OL) Maritime classification See certificate Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Pies	Operating voltage	24V DC
Structural design Reset method Pneumatic spring Certification Cult. us - Recognized (OL) Maritime classification See certificate Certificate issuing authority DNV-TAA000032X ULV MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm Sealing principle Soft Mounting position Any Manual override Detenting via accessory Nom-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 100% Max. positive test pulse with 0 signal Max. perative test pulse with 0 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating pressure	0.25 MPa 1 MPa
Reset method Certification Cult us - Recognized (OL) Maritime classification See certificate Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm 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. negative test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating pressure	2.5 bar 10 bar
Certification c UL us - Recognized (OL) Maritime classification See certificate Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm 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 00991655 Valve position ID Label holder Lap Overlap Switching time off 33 ms On switching time 50 ms Duty cycle 100% Max. negative test pulse with 0 signal 3300 μs Max. negative test pulse on 1 signal 3100 μs Coil characteristics 24 V Dc: 1.5 W Permissible voltage fluctuations -15 % / +10 % Opperating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Structural design	Piston gate valve
Maritime classification Certificate issuing authority DNV-TAA00032X UL MH19482 Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm 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 Oo991655 Valve position ID Label holder Lap Overlap Switching time On switching time 50 ms Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Reset method	Pneumatic spring
Certificate issuing authority DNV-TAA000032X UL MH19482 Degree of protection Ple5 With plug socket as per IEC 60529 Nominal width 11 mm 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 Oo991655 Valve position ID Label holder Lap Overlap Switching time off On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations -15 % / +10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Certification	c UL us - Recognized (OL)
Degree of protection IP65 With plug socket as per IEC 60529 Nominal width 11 mm 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 Oo991655 Valve position ID Label holder Lap Switching time off On switching time On switching time Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Maritime classification	See certificate
With plug socket as per IEC 60529 Nominal width 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 O0991655 Valve position ID Label holder Lap Overlap Switching time off O1 switching time D1 symbol O1 switching time D1 symbol O1 switching time D1 symbol O2 symbol O3 ms O3 ms O1 switching time O1 switching time O1 symbol O2 symbol O3 ms O3 ms O1 switching time O1 symbol O2 symbol O3 ms O2 symbol O3 ms O3 ms O3 ms O4 symbol O5 ms D5 ms D6 ms D7 symbol O6 ms O6 ms O7 symbol O7 symbol O8 ms O8 ms O9 ps O8 ms O9 ps O9	Certificate issuing authority	_
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 Oo991655 Valve position ID Label holder Lap Overlap Switching time off On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Operating medium Soft	Degree of protection	With plug socket
Mounting positionAnyManual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991655Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 µsMax. negative test pulse on 1 signal3100 µsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Nominal width	11 mm
Manual overrideDetenting via accessory Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991655Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Sealing principle	Soft
Type of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991655Valve position IDLabel holderLapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Mounting position	Any
Pilot air supply port Flow direction Non-reversible Symbol O0991655 Valve position ID Label holder Lap Overlap Switching time off 33 ms On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Operating medium Internal Non-reversible Non-reversible 100991655 Label holder 20 verlap 33 ms 50 ms 100% 40 Non-reversible 100 Norelap 100 Norela	Manual override	
Flow direction Non-reversible Symbol 00991655 Valve position ID Label holder Lap Overlap Switching time off 33 ms On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Operating medium Non-reversible Non-reversible 00991655 Abon-reversible 10090 33 ms 50 ms 100% 40	Type of control	Pilot-controlled
Symbol 00991655 Valve position ID Label holder Lap Overlap Switching time off 33 ms On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations -15 % / +10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot air supply port	Internal
Valve position ID Label holder Lap Overlap Switching time off 33 ms On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations Operating medium Label holder 33 ms Label holder 33 ms 50 ms 50 ms 100% 400% 100%	Flow direction	Non-reversible
LapOverlapSwitching time off33 msOn switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991655
Switching time off 33 ms On switching time 50 ms Duty cycle 100% Max. positive test pulse with 0 signal 3300 µs Max. negative test pulse on 1 signal 3100 µs Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations -15 % / +10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Valve position ID	Label holder
On switching time50 msDuty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Lap	Overlap
Duty cycle100%Max. positive test pulse with 0 signal3300 μsMax. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	33 ms
Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations -15 % / +10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	50 ms
Max. negative test pulse on 1 signal3100 μsCoil characteristics24 V DC: 1.5 WPermissible voltage fluctuations-15 % / +10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Duty cycle	100%
Coil characteristics 24 V DC: 1.5 W Permissible voltage fluctuations -15 % / +10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	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]	Max. negative test pulse on 1 signal	3100 µs
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	24 V DC: 1.5 W
	Permissible voltage fluctuations	-15 % / +10 %
Information on operating and pilot media Operation with oil lubrication possible (required for further use)	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)

Feature	Value
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 ℃ 50 ℃
Ambient temperature	-5 ℃ 50 ℃
Electrical connection	Form C
Type of mounting	With through-hole
Pilot exhaust air port 82	M5
Pilot air port 12	M5
Pneumatic connection 1	QS-12
Pneumatic connection 2	QS-12
Pneumatic connection 3	G3/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum