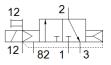
## solenoid valve CPE14-M1CH-3GLS-1/8 Part number: 550248

Very compact assembly, with M8 plug connection. This type is suitable for vacuum.

## **Data sheet**

Valve function3/2 closed, monostableType of actuationelectricalWidth14 mmStandard nominal flow rate900 //minOperating pressure0.9. 10 harDesign structurePiston slideType of resetAir springMarttime classificationsee certificateProtection classIP65IP67with plug socketto IIC 605/90for MmSealing principlesoftAssembly positionAnyAssembly positionAnyManual overridewith accessories, detentingPushingPilotedFlot al supplyexternalFlot al supplyinscription label holderOverlapPositive overlapPilot pressure2.5. & 8 barSwitching time on16 msSwitching time off1200 µsSwitching time off1200 µsSwitching time on15% / 10%OperatingPilot al in facordance with ISOS573-1:2010 [7:4:4]Notace classification CRCC2. Moderate corrison stressWidthin resistanceSoft corrison stressSwitching time and pilot mediumCorrepressed al in accordance with ISOS573-1:2010 [7:4:4]Not corrison stressSoft corrison stressMedium temperature550 °C	Feature	Value
Type of actuation   electrical     Width   14 mm     Standard nominal flow rate   900 //min     Operating pressure   0.9 10 bar     Design structure   Piston slide     Type of reset   Air spring     Maritine classification   See certificate     Protection class   IP65     IP67   with plug socket     to EC 60529   Nominal size     Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting     Pust of supposition   Any     Manual override   Policed     Pilotat   Inscription label holder     Overlap   Politote     Pilotating time on   16 ms     Overlap   900 µs     Switching time on   16 ms     Duty cycle   100 %     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 VDC: 1.28 W     Permissible voltage fluctuation   15 % / 10 %     Operating medium   Lubricated operation possible (subsequently required for further operation possible (subsequently required for further operation possib	Valve function	3/2 closed, monostable
Standard nominal flow rate 900 l/min   Operating pressure 0.9 10 bar   Design structure Piston slide   Type of reset Air spring   Maritime classification see certificate   Protection class IP65   IP67 with plug socket   to IEC 60529 to IEC 60529   Nominal size 6 mm   Sealing principle soft   Assembly position Any   Manual override Pushing   Piloted pushing   Type of piloting Piloted   Pilot air supply external   Flow direction non reversible   Valve position identification Inscription label holder   Overlap Positive overlap   Pilot pressure 25 8 bar   Switching time off 27 ms   Switching time off 100 %   Max. negative test pulse with logic 0 1,200 µs   Max. negative test pulse with logic 1 900 µs   Characteristic coil data 24 V DC: 1.28 W   Permissible voltage fluctuation 15 % / 10 %   Operating medium Lubricated operation possible (subsequently required for further operation)   Vibration resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 </td <td>Type of actuation</td> <td></td>	Type of actuation	
Operating pressure   4.9 10 bar     Design structure   Piston silde     Type of reset   Air spring     Maritime classification   see certificate     Protection class   IP65     Vector class   IP67     with plug socket   to IEC 60529     Nominal size   6 mm     Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting     Pushing   Ploted     Plot air supply   external     Flow direction   non reversible     Value position identification   Inscription label holder     Overlap   Positive overlap     Plot pressure   2.5 8 bar     Switching time on   16 ms     Duty cycle   100 %     Max. negative test pulse with logic 0   1,200 µs     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / ±0 %     Operating medium   Compressed air in accordance with FN 942017-5 and EN 60068-2-6     Shock tesistance   Shock test with severity	Width	14 mm
Design structure     Piston slide       Type of reset     Air spring       Martime classification     see certificate       Protection class     IP65       IP67     with plug socket       to IEC 60529     6 mm       Sealing principle     5 off       Assembly position     Any       Manual override     with accessories, detenting       Pushing     Piloted       Pilot air supply     external       Plot air supply     external       Plot air supply     Positive overlap       Plot presure     2.5 8 bar       Switching time off     27 ms       Switching time off     100 %       Max. negative test pulse with logic 0     1,200 µs       Characteristic coil data     24 V DC: 1.28 W       Permissible voltage fluctuation     Compressed air in accordance with FN 942017-5 and EN 60068-2-6       Shock test stup and pilot medium     Compressed air in accordance with FN 942017-5 and EN 60068-2-6       Shock test sith severity level 2 in accordance with FN 942017-5 and EN 60068-2-6     Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6       Shock test sith severity level 2 in accordance	Standard nominal flow rate	900 l/min
Type of resetAir springMaritime classificationsee certificateProtection classIP65IP67with plug socketto IEC 60529to IEC 60529Nominal size6 mmSealing principlesoftAssembly positionAnyManual overridewith accessories, detentingPushingPilotedPilot af supplyexternalRow directionnon reversibleValve position identificationInscription label holderOverlapPositive overlapPilot pressure2.5 8 barSwitching time off27 msSwitching time off27 msSwitching time off100 %Max. positive test pulse with logic 01.200 µsMax. accertaristic coil data24 VDC 1.28 WPermissible voltage fluctuation-15 % / 10 %Operating mediumCompressed air in accordance with ISO8573-1:2010[7:4:4]Note on operating and pilot mediumtubricated operation possible (subsequently required for further operation)Vibration resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6Shock test sith severity level 2 in accordance with FN 942017-5 and EN 60068-2-7Corrostor resistance classification CRC2- Moderate corrosin stressMedium temperature550 °CPilot mediumCompressed air in accordance with FN 942017-5 and EN 60068-2-7	Operating pressure	-0.9 10 bar
Maritime classification   see certificate     Protection class   IP65     Protection class   IP67     with plug socket   to IEC 60529     Nominal size   6 mm     Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting     Pushing   Ploted     Pilot ari supply   external     Flow direction   non reversible     Valve position identification   Inscription label holder     Overlap   Positive overlap     Pilot pressure   2.5 8 bar     Switching time off   27 ms     Switching time off   27 ms     Switching time off   100 %     Max, positive test pulse with logic 0   1,200 µs     Max, positive test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / 110 %     Operating medium   Compressed air in accordance with IS08573-1:2010 [7:4:4]     Note on operating and pilot medium   Urbricat doperation possible (subsequently required for further operation)     Vibration resistance   Shock test wi	Design structure	Piston slide
Protection class   IP65     IP67   with plug socket     to IEC 60529   6 mm     Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting     Pushing   Pathene     Type of piloting   Piloted     Pilot ed   Inscription label holder     Overlap   Positive overlap     Pilot ed   100 %     Switching time off   27 ms     Switching time off   27 ms     Switching time off   27 ms     Switching time off   1,200 µs     Max. negative test pulse with logic 0   1,200 µs     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   15 % / 10 %     Operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6     Shock resistance   Shock rest with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6     Shock resistance   Shock rest with severity level 2 in accordance with FN	Type of reset	Air spring
IP67 with plug socket to IEC 60529Nominal size6 mmSealing principlesoftAssembly positionAnyManual overridewith accessories, detenting PushingType of pilotingPilotedPilot ar supplyexternalFlow directionnon reversibleVave position identificationInscription label holderOverlapPositive overlapPilot pressure2.5 & barSwitching time off27 msSwitching time off27 wsSwitching time off100 %Duty cycle100 %Max. positive test pulse with logic 01,200 µsMax. positive test pulse with logic 1900 µsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with IS08573-1:2010 [7:4:4]Note on operating and pilot mediumUbricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2- Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with IS08573-1:2010 [7:4:4]	Maritime classification	see certificate
with plug socket to IEC 60529     Nominal size   6 mm     Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting Pushing     Type of piloting   Piloted     Pilot air supply   external     Flow direction   non reversible     Valve position identification   Inscription label holder     Overlap   Positive overlap     Pilot pressure   2.5 8 bar     Switching time on   16 ms     Duty cycle   100 %     Max. negative test pulse with logic 0   1,200 µs     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / +10 %     Operating medium   Compressed air naccordance with IS08573-1:2010[7:4:4]     Note on operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Shock test with severity level 2 in accordance with FN 942017-4 and EN 60068-2-6     Shock resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27     Corrosion resistance classification CRC   2 - Mode	Protection class	IP65
In the IC C 0529Nomial size6 mmSealing principlesoftAssembly positionAnyManual overridewith accessories, detenting PushingType of pilotingPilotedPilot air supplyexternalFlow directionnon reversibleValve position identificationInscription label holderOverlapPositive overlapPilot pressure2.5 8 barSwitching time off27 msSwitching time off27 msDuty cycle100 %Max. negative test pulse with logic 01,200 µsMax. negative test pulse with logic 1900 µsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceStrasport application test at severity level 2 in accordance with FN 942017-4 and Exorosin stressMedium temperature5 50 °CPilot mediumCompressed air in accordance with IS08573-1:2010[7:4:4]		IP67
Nominal size   6 mm     Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting Pushing     Type of piloting   Piloted     Pilot air supply   external     Flow direction   non reversible     Valve position identification   Inscription label holder     Overlap   Positive overlap     Pilot pressure   2.5 8 bar     Switching time off   27 ms     Switching time off   100 %     Max. positive test pulse with logic 0   1,200 µs     Max. positive test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / +10 %     Operating medium   Compressed in in accordance with IS08573-1:2010[7:4:4]     Note on operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-67     Shock resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27     Corrosion resistance classification CRC   2 - Moderate corrosion stress     <		with plug socket
Sealing principle   soft     Assembly position   Any     Manual override   with accessories, detenting     Pushing   Ploted     Pilot air supply   external     Flow direction   non reversible     Valve position identification   Inscription label holder     Overlap   Positive overlap     Pilot pressure   2.5 8 bar     Switching time off   27 ms     Switching time on   16 ms     Duty cycle   100 %     Max. negative test pulse with logic 0   1,200 µs     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / +10 %     Operating medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4]     Note on operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27     Corrosion resistance classification CRC   2 - Moderate corrosion stress     Medium temperature   5 50 °C     Pilot medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4		to IEC 60529
Assembly position   Any     Manual override   with accessories, detenting Pushing     Type of piloting   Piloted     Pilot air supply   external     Flow direction   non reversible     Valve position identification   Inscription label holder     Overlap   Positive overlap     Pilot pressure   2.5 8 bar     Switching time off   27 ms     Switching time on   16 ms     Duty cycle   100 %     Max. negative test pulse with logic 0   1,200 µs     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / ±10 %     Operating medium   Compressed air in accordance with IS08573-1:2010 [7:4:4]     Note on operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6     Shock resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27     Corrosion resistance classification CRC   2 - Moderate corrosion stress     Medium temperature   5 50 °C	Nominal size	6 mm
Manual override   with accessories, detenting     Pushing   Ploted     Pilot air supply   external     Flow direction   non reversible     Valve position identification   Inscription label holder     Overlap   Positive overlap     Pilot pressure   2.5 8 bar     Switching time off   27 ms     Switching time on   16 ms     Duty cycle   100 %     Max. positive test pulse with logic 0   1,200 µs     Max. negative test pulse with logic 1   900 µs     Characteristic coil data   24 V DC: 1.28 W     Permissible voltage fluctuation   -15 % / 10 %     Operating medium   Compressed air in accordance with IS08573-1:2010 [7:4:4]     Note on operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6     Shock resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7     Corrosion resistance classification CRC   2 - Moderate corrosion stress     Medium temperature   5 50 °C     Pilot medium   Compressed air in accordance with IS08573-1:2010 [7:4	Sealing principle	soft
PushingType of pilotingPilotedPilot air supplyexternalFlow directionnon reversibleValve position identificationInscription label holderOverlapPositive overlapPilot pressure2.5 8 barSwitching time off27 msSwitching time on16 msDuty cycle100 %Max. positive test pulse with logic 01,200 µsMax. negative test pulse with logic 1900 µsPermissible voltage fluctuation-15 % / ±10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6Shock resistance classification CRC2 - Moderate corrosion stressMedium temperature-550 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Assembly position	Any
Type of pilotingPilotedPilot air supplyexternalFlow directionnon reversibleValve position identificationInscription label holderOverlapPositive overlapPilot pressure2.5 8 barSwitching time off27 msSwitching time on16 msDuty cycle100 %Max. negative test pulse with logic 01,200 µsMax. negative test pulse with logic 1900 µsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Pilot medium2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Manual override	with accessories, detenting
Pilot air supplyexternalFlow directionnon reversibleValve position identificationInscription label holderOverlapPositive overlapPilot pressure2.5 8 barSwitching time off27 msSwitching time on16 msDuty cycle100 %Max. positive test pulse with logic 01,200 µsMax. negative test pulse with logic 1900 µsCharacteristic coil data24 VDC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with IS08573-1:2010[7:4:4]Note on operating and pilot mediumTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with IS08573-1:2010[7:4:4]		Pushing
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Pilot pressure2.5 8 barSwitching time off27 msSwitching time on16 msDuty cycle100 %Max. positive test pulse with logic 01,200 µsMax. negative test pulse with logic 1900 µsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6Shock resistance classification CRC2 · Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Valve position identification	Inscription label holder
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Max. negative test pulse with logic 1900 µsCharacteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Duty cycle	100 %
Characteristic coil data24 V DC: 1.28 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Max. positive test pulse with logic 0	1,200 μs
Permissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Max. negative test pulse with logic 1	900 µs
Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Characteristic coil data	24 V DC: 1.28 W
Note on operating and pilot medium   Lubricated operation possible (subsequently required for further operation)     Vibration resistance   Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6     Shock resistance   Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27     Corrosion resistance classification CRC   2 - Moderate corrosion stress     Medium temperature   -5 50 °C     Pilot medium   Compressed air in accordance with IS08573-1:2010 [7:4:4]	Permissible voltage fluctuation	-15 % / +10 %
operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with IS08573-1:2010 [7:4:4]	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressMedium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Note on operating and pilot medium	
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Medium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN
Medium temperature-5 50 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]	Corrosion resistance classification CRC	2 - Moderate corrosion stress
Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]		
Max.tightening torque plug 0.4 Nm		
Product weight 60 g		

**FESTO** 



## FESTO

Feature	Value
Electrical connection	4-pin
	M8x1
Mounting type	with through hole
Pilot exhaust port 82	M3
Pilot air port 12	M3
Pneumatic connection, port 1	G1/8
Pneumatic connection, port 2	G1/8
Pneumatic connection, port 3	G1/8
Materials note	Conforms to RoHS
Material seals	NBR
Material housing	Aluminium die cast