solenoid valve VMPA14-M1HF-MS-PI Part number: 578817





Data sheet

Valve function 5/2 monostable Type of actuation electrical Valve size 12 mm Standard nominal flow rate 550 670 l/min Operating pressure 0.9 8 bar Design structure Piston slide Prope of reset mechanical spring Authorisation c. U. us - Recognized (DL) CE mark (see declaration of conformity) to EU directive for EMC Protection class IP65 to IEC 60529 In IEC 60529 Sealing principle soft Assembly position Any Assembly position Any Type of piloting Piloted Flow direction reversible Overlap Pistatus display Type of piloting Piloted Flow direction reversible Overlap Piloted Flow direction reversible Overlap Piloted Flow direction reversible Overlap Politic reversible Siling a status display Yes	Feature	Value
Valve size	Valve function	5/2 monostable
Standard nominal flow rate S50670 l/min	Type of actuation	electrical
Operating pressure Design Structure Piston side Piston side Piston side Piston side Authorisation C. Ul. us. *Recognized (OL) C. Emark (see declaration of conformity) Protection class IP65 C. Brank (see declaration of conformity) Protection class IP65 Soft Assembly position Any Any Any Any Anual override Pushing Pype of piloting Pype of piloting Positive overlap Signal status display Persisted Signal status display Pyes Information on standard nominal flow rate MPA-1: 670 I/min Standard nominal flow rate with QS-8 Switching time off Max. switching frequency Switching time off Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Permissible voltage fluctuation Operating medium Note on operating and pilot medium Urbration resistance Shock resistance Shock resistance Shock resistance See Supplementary Stond-See See Supplementary material information Max. Spotitive test pulse with ISORS 7-3 -1-2010 [7:4-4] Note on operating and pilot medium Urbration resistance Shock resistan	Valve size	14 mm
Design structure Piston silde Pi	Standard nominal flow rate	550 670 l/min
Design structure Piston slide Muthorisation CUL us- Recognized (OL) CE mark (see declaration of conformity) to EU directive for EMC Protection class IP65 10 IEC 60529 Sealing principle Sostion Any Manual override detenting Pushing Type of pibling Flow direction Protection (Signal Status display Pushing Pushing Pushing Poshitive overlap Signal status display Yes Suitability for vacuum Yes Suitability for vacuum WhA-S: 550 I/min MAX- switching frequency Switching time on Switching time on Switching time on Max. positive test pulse with logic 1 More on operating and pilot medium Operating medium Operating medium Operating medium Operating respective Shock resistance Shock resistance Shock resistance Shock resistance Shock sest with severily level 2 in accordance with FN 942017-5 and EN 60068-2-2 7 Corrosion resistance classification CRC 1-tow corrosion steres Shock resistance Shock sest with severily level 2 in accordance with FN 942017-5 and EN 60068-2-2 7 Corrosion resistance classification CRC 1-tow corrosion steres Shock resistance Shock vest with severily level 2 in accordance with FN 942017-5 and EN 60068-2-2 7 Corrosion resistance Leasification CRC 1-tow corrosion steres Shock vest with severily level 2 in accordance with FN 942017-5 and EN 60068-2-2 7 Corrosion resistance Leasification CRC 1-tow corrosion steres Storage temperature See Supplementary material information Medium temperature See Supplemen	Operating pressure	-0.9 8 bar
Type of reset Authorisation CE mark (see declaration of conformity) Type Certain Cass Protection class Protection class Protection class Protection class Protection class UL us - Recognized (OL) CE mark (see declaration of conformity) Type Conformation Protection class UL us - Recognized (OL) CE mark (see declaration of conformity) Type Conformation Protection class UL us - Recognized (OL) CE mark (see declaration of conformity) Type Conformation Protection Protection Protection Protection Protection Pushing Pushing Pushing Pushing Pushing Pushing Protection Protect		Piston slide
CE mark (See declaration of conformity) Protection class Protection class Protection class IP65 Sealing principle Soft Any Manual override Any Type of piloting Ploted Flow direction Positive overlap Signal status display Yes Pilot pressure Suitability for vacuum Yes Information on standard nominal flow rate MPA-S: 550 I/min MPA-1: 670 I/min Standard nominal flow rate with QS-8 Sowitching time off Switching time off Switching time off Switching time off Aax. negative test pulse with logic 0 Max. negative test pulse with logic 1 Permissible voltage fluctuation Vibration resistance Shock resistance Shock resistance Shock resistance Shock sesistance See Supplementary Anx. pagive severity level 2 in accordance with FN 942017-5 and EN 6006-8-2-6 Shock sesistance See Supplementary makes in home Max. 90% at 40°C Anx. poly and preserve See Supplementary material information Medium temperature See Supplementary material information Max. positive test pulse 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 See Supplementary material information Medium temperature See Supp	Type of reset	mechanical spring
CE mark (See declaration of conformity) Protection class Protection class Protection class IP65 Sealing principle Soft Any Manual override Any Type of piloting Ploted Flow direction Positive overlap Signal status display Yes Pilot pressure Suitability for vacuum Yes Information on standard nominal flow rate MPA-S: 550 I/min MPA-1: 670 I/min Standard nominal flow rate with QS-8 Sowitching time off Switching time off Switching time off Switching time off Aax. negative test pulse with logic 0 Max. negative test pulse with logic 1 Permissible voltage fluctuation Vibration resistance Shock resistance Shock resistance Shock resistance Shock sesistance See Supplementary Anx. pagive severity level 2 in accordance with FN 942017-5 and EN 6006-8-2-6 Shock sesistance See Supplementary makes in home Max. 90% at 40°C Anx. poly and preserve See Supplementary material information Medium temperature See Supplementary material information Max. positive test pulse 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 See Supplementary material information Medium temperature See Supp	Authorisation	c UL us - Recognized (OL)
to IEC 60529 Sealing principle Assembly position Any Manual override detenting Pushing Piloted Flow direction Persisted Signal status display Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-L: 670 I/min Standard nominal flow rate MPA-L: 670 I/min Standard nominal flow rate with QS-8 Soutching time on Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Poerating medium Note on operating and pilot medium Urbiration resistance Shock resistance Shock resistance classification CRC 1-Low corrosion stress Storage temperature Medium temperature Medium temperature Max. 90% at 40°C Ambient Legals NBR Mounter in Roll Max. polity even mundity Max. 90% at 40°C Ambient Legals NBR Mounting type Mutterial Roll Mitterial Roll Mit	CE mark (see declaration of conformity)	
Sealing principle soft Assembly position Any Manual override detenting Pushing Plotted Flow direction reversible Overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-5: 550 I/min Max. switching frequency 2 Hz Switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive stry bulse with logic 0 400 µs Max. negative test pulse with logic 1 200 µs Permissible voltage fluctuation 4/- 25 % 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 Transport application test at 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 60068-2-6 Corrosion resistance classification CRC 1 - Low corrosion stress Storage temperature -20 40 °C Food -Safe See Supplementary material information	•	IP65
Assembly position Manual override Menual override Menual override Menual override Pushing Piloted Flow direction Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-5: 550 I/min MPA-1: 670 I/min Standard nominal flow rate with QS-8 Synching frequency 2 Hz Switching frequency 2 Hz Switching time off 30 ms Switching time off 30 ms Switching time off 30 ms Max. negative test pulse with logic 0 Max. positive test pulse with logic 1 Permissible voltage fluctuation Operating medium Compressed air in accordance with IS08573-1:2010 [7:4:4] Lubricated operation possible (subsequently required for further operation) vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance classification CRC 1 - Low corrosion stress Storage temperature 2-0 40°C Relative air humidity Max. 90% at 40°C Ambient temperature 4.7 28 Mounting type With through hole Material seals MBR Meterial seals NBR		to IEC 60529
Assembly position Manual override Menual override Menual override Menual override Pushing Piloted Flow direction Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-5: 550 I/min MPA-1: 670 I/min Standard nominal flow rate with QS-8 Synching frequency 2 Hz Switching frequency 2 Hz Switching time off 30 ms Switching time off 30 ms Switching time off 30 ms Max. negative test pulse with logic 0 Max. positive test pulse with logic 1 Permissible voltage fluctuation Operating medium Compressed air in accordance with IS08573-1:2010 [7:4:4] Lubricated operation possible (subsequently required for further operation) vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance classification CRC 1 - Low corrosion stress Storage temperature 2-0 40°C Relative air humidity Max. 90% at 40°C Ambient temperature 4.7 28 Mounting type With through hole Material seals MBR Meterial seals NBR	Sealing principle	soft
Manual override detenting Pushing Type of piloting Piloted Flow direction reversible Overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-S: 550 I/min MPA-L: 670 I/min Standard nominal flow rate with QS-8 550 670 I/min Max. switching frequency 2 Hz Switching time off 30 ms Switching time off 30 ms Switching time off 400 µs Max. positive test pulse with logic 0 400 µs Max. negative test pulse with logic 1 200 µs Permissible voltage fluctuation 4/-25 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible Gubsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 1-tow corrosion stress Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 1-tow corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature 5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature 5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type With through hole Material seals NBR		Any
Pushing Ploted Ploted Flow direction reversible Overlap Positive overlap Signal status display Yes Pliot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-5: 550 1/min MPA-5: 550 1/min MPA-6: 670 1/min Standard nominal flow rate MPA-6: 670 1/min Standard nominal flow rate with QS-8 550 670 1/min Standard nominal flow rate with QS-8 550 670 1/min Max. switching frequency 2 Hz Switching time off 30 ms Switching time off 30 ms Switching time of Max. positive test pulse with logic 0 400 µs Max. negative test pulse with logic 1 200 µs Permissible voltage fluctuation 4/- 25 % Operating medium Compressed air in accordance with 1508573-1:2010 [7:4:4] 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 1 - Low corrosion stress Storage temperature 2-0 40 °C Corrosion resistance also fication CRC 1 - Low corrosion stress Storage temperature Soc Supplementary material information Medium temperature Relative air humidity Max. 90% at 40°C Ambient temperature See Supplementary material information Medium temperature Relative air humidity Max. 1914 through hole Material soals Material soals NBR		· · · · · · · · · · · · · · · · · · ·
Type of piloting Flow direction reversible Overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-5: 550 1/min MPA-1: 670 1/min Standard nominal flow rate with QS-8 550 670 1/min Max. switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 200 µs Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubricated operation possible (subsequently required for further operation) Vibration resistance Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Storage temperature - 20 40 °C Food-safe See Supplementary material information Medium temperature - 5 60 °C Relative air humidity Max. 90% at 40°C Ambient temperature - 5 60 °C Ambient temperature - 5 60 °C Ambient temperature - 5 60 °C Max. stightening torque, valve mounting Medium temperature - 5 60 °C Max. defining torque, valve mounting Max. tightening torque, valve mounting MPA-1: 890 Max possible working the medium formation MPA-1: 890 Max possible working the medium formation on the medium temperature - 5 60 °C Corrosion resistance classification CRC - 60068-2-20 Mm Max. tightening torque, valve mounting Max. tightening torque, valve mounting Materials note		
Flow direction reversible Overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-S: 550 I/min MPA	Type of piloting	
Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-S: 550 I/min MPA-L: 670 I/min Standard nominal flow rate with QS-8 550 670 I/min Switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 400 μs Max. negative test pulse with logic 1 200 μs Permissible voltage fluctuation +/-25 % 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 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 60068-2-6 Corrosion resistance classification CRC 1 · Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C A		reversible
Signal status display Yes Pilot pressure 3 8 bar Information on standard nominal flow rate MPA-S: 550 I/min MPA-L: 670 I/min MPA-L: 670 I/min Standard nominal flow rate with QS-8 550 670 I/min Max. switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 400 μs Max. positive test pulse with logic 1 200 μs Permissible voltage fluctuation +/-25 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Libricated 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 1 · Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity <td>Overlap</td> <td>Positive overlap</td>	Overlap	Positive overlap
Pilot pressure 3 8 bar Suitability for vacuum Yes Information on standard nominal flow rate MPA-S: 550 I/min MPA-L: 670 I/min Standard nominal flow rate with QS-8 550 670 I/min Max. switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 200 µs Permissible voltage fluctuation 4/- 25 % 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 Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock resistance classification CRC 1 - Low corrosion stress Storage temperature 20 40 °C Relative air humidity Max. 90% at 40°C Ambient temperature 5 50 °C Relative air humidity Mox. 10 % BR Mounting type Mounting type Materials note NBR NBR		
Suitability for vacuum Information on standard nominal flow rate Information on Information Info		3 8 bar
Information on standard nominal flow rate MPA-I: 670 l/min Standard nominal flow rate with QS-8 Stondard nominal flow rate with QS-8 Max. switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubricated 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 1 - Low corrosion stress Storage temperature - 20 40 °C Food-safe See Supplementary material information Medium temperature - 5 50 °C Relative air humidity Max. 90% at 40°C Max. tightening torque, valve mounting Product weight Materials note Materials note Materials note Marerials note Marerials note Marerials note Marerials note Marerials note Max. policy in min. MPA-1: 670 l/min MPA-1: 670 l/min 10 ms MAPA: 670 l/min 10 ms 10 ms MAPA: 670 l/min 10 ms 10 ms MAPA: 670 l/min 10 ms 10 ms 10 ms 10 ms 1		
MPA-L: 670 I/min Standard nominal flow rate with QS-8 550 670 I/min Max. switching frequency 2 Hz Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 400 μs Max. negative test pulse with logic 1 200 μs Permissible voltage fluctuation 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 Transport application test at 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 1 - Low corrosion stress Storage temperature - 20 40 °C Food-safe See Supplementary material information Medium temperature - 5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature - 5 60 °C Max. tightening torque, valve mounting Product weight Mounting type With through hole Materials seals NBR	-	MPA-S: 550 I/min
Standard nominal flow rate with QS-8 550 670 l/min Max. switching frequency 2 Hz Switching time off 30 ms Max. positive test pulse with logic 0 400 μs Max. negative test pulse with logic 1 200 μs Permissible voltage fluctuation +/- 25 % 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 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 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials seals NBR		
Max. switching frequency Switching time off 30 ms Switching time on 10 ms Max. positive test pulse with logic 0 400 µs Permissible voltage fluctuation 4/- 25 % 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 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 1 - Low corrosion stress Storage temperature - 20 40 °C Food-safe See Supplementary material information Medium temperature - 5 50 °C Max. 90% at 40°C Ambient temperature - 5 60 °C Max. 19thening torque, valve mounting Product weight 77 g Mounting type with through hole Materials note Materials seals NBR	Standard nominal flow rate with OS-8	•
Switching time off Switching time off Switching time on 10 ms Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Permissible voltage fluctuation 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 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 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight Mounting type Material seals NBR		
Switching time on 10 ms Max. positive test pulse with logic 0 400 μs Max. negative test pulse with logic 1 200 μs Permissible voltage fluctuation +/- 25 % 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 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 1 - Low corrosion stress Storage temperature 20 40 °C Food-safe See Supplementary material information Medium temperature 5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature 5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials seals NBR		
Max. positive test pulse with logic 0 400 μs Max. negative test pulse with logic 1 200 μs Permissible voltage fluctuation +/- 25 % 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 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 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to RoHS Material seals NBR		
Max. negative test pulse with logic 1 200 μs Permissible voltage fluctuation +/- 25 % 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 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 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials soals NBR		400 us
Permissible voltage fluctuation +/- 25 % 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 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 1-Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting O.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to RoHS Material seals NBR		,
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 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 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to RoHS Material seals NBR		,
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 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting Product weight 77 g Mounting type with through hole Materials note Conforms to ROHS Material seals	_	
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 CRC1 - Low corrosion stressStorage temperature-20 40 °CFood-safeSee Supplementary material informationMedium temperature-5 50 °CRelative air humidityMax. 90% at 40°CAmbient temperature-5 60 °CMax. tightening torque, valve mounting0.65 NmProduct weight77 gMounting typewith through holeMaterials noteConforms to RoHSMaterial sealsNBR		
Shock resistance942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC1 - Low corrosion stressStorage temperature-20 40 °CFood-safeSee Supplementary material informationMedium temperature-5 50 °CRelative air humidityMax. 90% at 40°CAmbient temperature-5 60 °CMax. tightening torque, valve mounting0.65 NmProduct weight77 gMounting typewith through holeMaterials noteConforms to RoHSMaterial sealsNBR	and processing and processing and	
Shock resistance942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC1 - Low corrosion stressStorage temperature-20 40 °CFood-safeSee Supplementary material informationMedium temperature-5 50 °CRelative air humidityMax. 90% at 40°CAmbient temperature-5 60 °CMax. tightening torque, valve mounting0.65 NmProduct weight77 gMounting typewith through holeMaterials noteConforms to RoHSMaterial sealsNBR	Vibration resistance	Transport application test at severity level 2 in accordance with FN
60068-2-27 Corrosion resistance classification CRC 1 - Low corrosion stress Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting Product weight 77 g Mounting type with through hole Materials note Conforms to ROHS Material seals		
Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to ROHS Material seals NBR	Shock resistance	
Storage temperature -20 40 °C Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to ROHS Material seals NBR	Corrosion resistance classification CRC	1 - Low corrosion stress
Food-safe See Supplementary material information Medium temperature -5 50 °C Relative air humidity Max. 90% at 40 °C Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to ROHS Material seals NBR		
Medium temperature-5 50 °CRelative air humidityMax. 90% at 40°CAmbient temperature-5 60 °CMax. tightening torque, valve mounting0.65 NmProduct weight77 gMounting typewith through holeMaterials noteConforms to RoHSMaterial sealsNBR	- '	
Relative air humidity Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to RoHS Material seals NBR		
Ambient temperature -5 60 °C Max. tightening torque, valve mounting 0.65 Nm Product weight 77 g Mounting type with through hole Materials note Conforms to RoHS Material seals NBR	·	
Max. tightening torque, valve mounting0.65 NmProduct weight77 gMounting typewith through holeMaterials noteConforms to RoHSMaterial sealsNBR		
Product weight 77 g Mounting type with through hole Materials note Conforms to RoHS Material seals NBR		
Mounting type with through hole Materials note Conforms to RoHS Material seals NBR		
Materials noteConforms to RoHSMaterial sealsNBR		
Material seals NBR		
	Material housing	Aluminium die cast