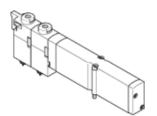
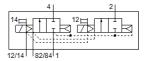
## solenoid valve VMPA1-M1H-D-PI Part number: 533350

**FESTO** 

For valve terminal MPA-S.





## **Data sheet**

Assembly position Manual override Menual override Menual override Menual override Menual override Menual override Menual override Pushing Pushing Piloted Rlow direction Non reversible Overlap Positive overlap Signal status display Yes Signal status display Yes Signal status display Yes Situability for vacuum No Standard nominal flow rate with QS-6 230 I/min Switching time off Switching time off 20 ms Switching time off 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 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 Relative air humidity Max. 90% at 40 °C Ambient temperature 5 50 °C Relative air humidity Max. 19thening torque, valve mounting Product weight Materials note Materials note Materials seals NBR	Feature	Value
Valve size         10 mm           Standard nominal flow rate         230 l/min           Design structure         Piston slide           Type of reset         Air spring           Authorisation         c UL us - Recognized (OL)           Protection class         IP65           Sealing principle         soft           Assembly position         Any           Manual override         detenting           Pushing         Plotted           Flow direction         non reversible           Overlap         Positive overlap           Signal status display         Yes           Plot pressure         3 8 bar           Suitability for vacuum         No           Standard nominal flow rate with Qs-6         230 l/min           Switching time on         10 ms           Max. regaritve test pulse with logic 0         400 µs           Max. regaritve test pulse with logic 1         200 µs           Permisable voltage fluctuation         4/- 25 %           Operating medium         Compressed air in accordance with ISO8573-1;2010 [7:44]           Not on operating and pilot medium         Lubricated operation possible (subsequently required for further operation possible (subsequently required for further operation resistance           Shock resistance	Valve function	2x2/2 closed, monostable
Standard nominal flow rate Operating pressure Design structure Piston slide Type of reset Alr spring Authorisation CUL us - Recognized (OL) Protection class IP65 to IEC 66529 Sealing principle Soft Assembly position Any Manual override detenting Pushing Type of piloting Ploted Flow direction Overlap Signal status display Yes Standard nominal flow rate with QS-6 Switching time off 20 ms Switching time off 20 ms Switching time off 20 ms Awx. negative test pulse with logic 0 Max. negative test pulse with logic 1 Poerating medium Note on operating and pilot medium Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Operating temperature Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Sor Command Shore Sor Command Shore Shock resistance Sho	Type of actuation	electrical
Operating pressure         3 10 bar           Design structure         Piston silde           Type of reset         Air spring           Authorisation         c UL u.s - Recognized (01)           Protection class         1P65           Sealing principle         soft           Assembly position         Any           Manual override         detenting           Pushing         Piloted           Flow direction         non reversible           Overlap         Positive overlap           Signal status display         Yes           Pilot pressure         3 8 bar           Suitability for vacuum         No           Standard nominal flow rate with QS-6         230 I/min           Switching time off         20 ms           Switching time of         20 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 fsubsequently required for further operation)           Vibration resistance         Shock test with severity level 2 in	Valve size	10 mm
Design structure Type of reset Alf spring Alf spring Authorisation CUL us - Recognized (OL) Protection class IP65 to IEC 60529  Sealing principle Soft Assembly position Any Manual override detenting Pushing Type of piloting Plioted Flow direction Overlap Positive overlap Signal status display Pes Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 230 I/min Switching time off Switching time off Switching time on Max. positive test pulse with logic 0 Max. positive 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 operations Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Medium temperature 1-0 40 °C Max. 10 °C Max. 10 °C Max. 11 °C Max. 12 °C Medium temperature 1-0 40 °C Max. 10 °C Max. 11 °C Max. 12 °C Max. 13 °C Max. 14 °C Max. 14 °C Max. 15 °C Medium temperature 1-0 40 °C Medium temperature 1-0 40 °C Medium temperature 1-0 40 °C Max. 15 °C Medium temperature 1-0 40 °C M	Standard nominal flow rate	230 l/min
Type of reset Authorisation CUL us - Recognized (OL) Protection class IP65 to IEC 60529 Sealing principle Assembly position Any Manual override Bushing Type of piloting Ploted Pushing Ploted Pushing Ploted Plow direction Overlap Positive overlap Signal status display Yes Plot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 Switching time off 20 ms Switching time off 20 ms Max. negative test pulse with logic 0 Max. positive est pulse with logic 1 Permissible voltage fluctuation Permissible voltage fluctuation Aperium 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 resistance Shock stest 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 Medium temperature - 5 50 °C Medium temperature - 5	Operating pressure	3 10 bar
Authorisation culture - CUL us - Recognized (OL) Protection class   IP65   IP65	Design structure	Piston slide
Protection class    P65	Type of reset	Air spring
to IEC 60529  Sealing principle Assembly position Any  Manual override  detenting Pushing  Type of piloting Piloted Flow direction non reversible Overlap Signal status display Pisting Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 Standard nominal flow rate with QS-6 Switching time off 20 ms Switching time on 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 Shock resistance Shock resistance Shock resistance Shock sets with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Storage temperature Procession of Compressed en several plication test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Storage temperature Procession of Compressed en several plication test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Storage temperature Product weight Max. tightening torque, valve mounting Deforms to ROHS Material seals NBR	Authorisation	c UL us - Recognized (OL)
Sealing principle Assembly position Any Annual override  Manual override  Manual override  Methoding Pushing Piloted Positive overlap Positive overlap Positive overlap Positive overlap Positive overlap Signal status display Pes Positive overlap Suitability for vacuum No Standard nominal flow rate with QS-6 Switching time off 20 ms Switching time off 20 ms Switching time off 20 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 sesistance Shock sesistance Shock sesistance Shock sesistance Shock sesistance Shock sesistance Shock and Shock of Compressed air in accordance with FN 942017-5 and EN 60068-2-6 Shock msistance Shock sesistance Shoc	Protection class	IP65
Assembly position Manual override Menual override Menual override Menual override Menual override Menual override Menual override Pushing Pushing Piloted Rlow direction Non reversible Overlap Positive overlap Signal status display Yes Signal status display Yes Signal status display Yes Situability for vacuum No Standard nominal flow rate with QS-6 230 I/min Switching time off Switching time off 20 ms Switching time off 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 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 Relative air humidity Max. 90% at 40 °C Ambient temperature 5 50 °C Relative air humidity Max. 19thening torque, valve mounting Product weight Materials note Materials note Materials seals NBR		to IEC 60529
Manual override Pushing Pushing Ploted Flow direction non reversible Overlap Positive overlap Signal status display Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 Switching time off Switching time on Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Permissible voltage fluctuation Vibration resistance  Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-7  Corrosion resistance classification CRC Shore Relative air humidity Max. pogwate Humidity Max. pogwate Auo Conforms to RoHS Max. poly and 40°C Max. poly and 40°C Mounting type Mounting type With through hole Material seals MBR	Sealing principle	soft
Pushing Type of piloting Piloted Piloted Positive overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 Switching time off 20 ms Switching time of ms Switching time off 20 ms Switching time off 20 ms Switching	Assembly position	Any
Type of piloting Flow direction non reversible Overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 Switching time off Switching time on 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 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-26 Shorage temperature Apacity and Compressed air operation of the severity level 2 in accordance with FN 942017-5 and EN 60068-2-26 Corrosion resistance classification CRC 1 - Low corrosion stress Storage temperature 4 - 20 40°C Medium temperature 5 50 °C Relative air humidity Max. 90% at 40°C Max. tightening torque, valve mounting Product weight Materials seals NBR	Manual override	detenting
Flow direction Positive overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 230 I/min Switching time off 20 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 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 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 1-Low corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 50 °C Max. tightening torque, valve mounting 0.25 Nm Product weight 56 g Mounting type with through hole Materials seals NBR		Pushing
Flow direction Positive overlap Positive overlap Signal status display Yes Pilot pressure 3 8 bar Suitability for vacuum No Standard nominal flow rate with QS-6 230 I/min Switching time off 20 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 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 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 1-Low corrosion stress Storage temperature -20 40 °C Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 50 °C Max. tightening torque, valve mounting 0.25 Nm Product weight 56 g Mounting type with through hole Materials seals NBR	Type of piloting	Piloted
Signal status display     Yes       Pilot pressure     3 8 bar       Suitability for vacuum     No       Standard nominal flow rate with Q5-6     230 l/min       Switching time off     20 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 60068-2-26       Corrosion resistance classification CRC     1 - Low corrosion stress       Storage temperature     -20 40 °C       Medium temperature     -5 50 °C       Medium temperature     -5 50 °C       Relative air humidity     Max. 90% at 40°C       Ambient temperature     -5 50 °C       Max. tightening torque, valve mounting     0.25 Nm       Product weight     56 g       Mounting type     with through hole       Materials seals     NBR		non reversible
Pilot pressure       3 8 bar         Suitability for vacuum       No         Standard nominal flow rate with QS-6       230 l/min         Switching time off       20 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 60068-2-27         Corrosion resistance classification CRC       1 - Low corrosion stress         Storage temperature       -20 40 °C         Medium temperature       -5 50 °C         Relative air humidity       Max. 90% at 40°C         Ambient temperature       -5 50 °C         Max. tightening torque, valve mounting       0.25 Nm         Product weight       56 g         Mounting type       with through hole         Materials seals       NBR	Overlap	Positive overlap
Suitability for vacuum Standard nominal flow rate with QS-6 Sandard nominal flow rate with QS-6 Switching time off Sowitching time on  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 Ubbricated 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 sets 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 Medium temperature - 5 50 °C Medium temperature - 5 50 °C Max. tightening torque, valve mounting - 75 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 78 50 °C Max. tightening torque, valve mounting - 78 50 °C Max. tightening torqu	Signal status display	Yes
Suitability for vacuum Standard nominal flow rate with QS-6 Sandard nominal flow rate with QS-6 Switching time off Sowitching time on  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 Ubbricated 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 sets 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 Medium temperature - 5 50 °C Medium temperature - 5 50 °C Max. tightening torque, valve mounting - 75 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 76 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 77 50 °C Max. tightening torque, valve mounting - 78 50 °C Max. tightening torque, valve mounting - 78 50 °C Max. tightening torqu	Pilot pressure	3 8 bar
Switching time off 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 Voperating 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 Medium temperature -5 50 °C Relative air humidity Max. 90% at 40°C Ambient temperature -5 50 °C Max. tightening torque, valve mounting 0.25 Nm Product weight Mounting type with through hole Materials note Conforms to RoHS Makerials seals NBR		No
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       Medium temperature     -5 50 °C       Relative air humidity     Max. 90% at 40°C       Ambient temperature     -5 50 °C       Max. tightening torque, valve mounting     0.25 Nm       Product weight     56 g       Mounting type     with through hole       Materials note     Conforms to RoHS       Materials seals     NBR	Standard nominal flow rate with QS-6	230 l/min
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       Medium temperature     -5 50 °C       Relative air humidity     Max. 90% at 40°C       Ambient temperature     -5 50 °C       Max. tightening torque, valve mounting     0.25 Nm       Product weight     56 g       Mounting type     with through hole       Materials note     Conforms to RoHS       Materials seals     NBR	Switching time off	20 ms
Max. positive test pulse with logic 0400 μsMax. negative test pulse with logic 1200 μsPermissible voltage fluctuation+/- 25 %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 CRC1 - Low corrosion stressStorage temperature-20 40 °CMedium temperature-5 50 °CRelative air humidityMax. 90% at 40°CAmbient temperature-5 50 °CMax. tightening torque, valve mounting0.25 NmProduct weight56 gMounting typewith through holeMaterials noteConforms to RoHSMaterials sealsNBR		10 ms
Permissible voltage fluctuation	Max. positive test pulse with logic 0	400 μs
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         Medium temperature       -5 50 °C         Relative air humidity       Max. 90% at 40°C         Ambient temperature       -5 50 °C         Max. tightening torque, valve mounting       0.25 Nm         Product weight       56 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         Medium temperature       -5 50 °C         Relative air humidity       Max. 90% at 40°C         Ambient temperature       -5 50 °C         Max. tightening torque, valve mounting       0.25 Nm         Product weight       56 g         Mounting type       with through hole         Materials note       Conforms to RoHS         Material seals       NBR	Permissible voltage fluctuation	+/- 25 %
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  Medium temperature  -5 50 °C  Relative air humidity  Max. 90% at 40°C  Ambient temperature  -5 50 °C  Max. tightening torque, valve mounting  Product weight  56 g  Mounting type  with through hole  Materials note  NBR		Compressed air in accordance with ISO8573-1:2010 [7:4:4]
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  Medium temperature -5 50 °C  Relative air humidity Max. 90% at 40 °C  Ambient temperature -5 50 °C  Max. tightening torque, valve mounting 0.25 Nm  Product weight 56 g  Mounting type with through hole  Materials note Conforms to RoHS  Material seals NBR	· -	Lubricated operation possible (subsequently required for further
60068-2-27  Corrosion resistance classification CRC  1 - Low corrosion stress  Storage temperature  -20 40 °C  Medium temperature  -5 50 °C  Relative air humidity  Max. 90% at 40°C  Ambient temperature  -5 50 °C  Max. tightening torque, valve mounting  0.25 Nm  Product weight  56 g  Mounting type  with through hole  Materials note  Conforms to RoHS  Material seals	Vibration resistance	, , , , ,
Storage temperature -20 40 °C  Medium temperature -5 50 °C  Relative air humidity Max. 90% at 40°C  Ambient temperature -5 50 °C  Max. tightening torque, valve mounting 0.25 Nm  Product weight 56 g  Mounting type with through hole  Materials note Conforms to RoHS  Material seals NBR	Shock resistance	· ·
Storage temperature -20 40 °C  Medium temperature -5 50 °C  Relative air humidity Max. 90% at 40°C  Ambient temperature -5 50 °C  Max. tightening torque, valve mounting 0.25 Nm  Product weight 56 g  Mounting type with through hole  Materials note Conforms to RoHS  Material seals NBR	Corrosion resistance classification CRC	1 - Low corrosion stress
Medium temperature -5 50 °C  Relative air humidity Max. 90% at 40°C  Ambient temperature -5 50 °C  Max. tightening torque, valve mounting 0.25 Nm  Product weight 56 g  Mounting type with through hole  Materials note Conforms to RoHS  Material seals NBR		
Relative air humidity  Max. 90% at 40°C  Ambient temperature  -5 50 °C  Max. tightening torque, valve mounting  0.25 Nm  Product weight  56 g  Mounting type  with through hole  Materials note  Conforms to RoHS  Material seals  NBR		
Ambient temperature -5 50 °C  Max. tightening torque, valve mounting 0.25 Nm  Product weight 56 g  Mounting type with through hole  Materials note Conforms to RoHS  Material seals NBR	·	
Max. tightening torque, valve mounting     0.25 Nm       Product weight     56 g       Mounting type     with through hole       Materials note     Conforms to RoHS       Material seals     NBR	•	
Product weight 56 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 note Conforms to RoHS Material seals NBR		
Material seals NBR		<u> </u>
MATERIAL HOUSING	Material housing	Aluminium die cast