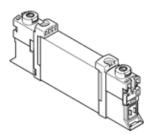
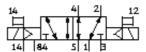
## solenoid valve **VUVG-B10-B52-ZT-F-1P3**Part number: 566491

**FESTO** 

This type is suitable for vacuum.





## **Data sheet**

Type of actuation    clectrical	Feature	Value
Valve size	Valve function	5/2 bistable
Standard nominal flow rate  Operating pressure MPa  Operating pressure MPa  Operating pressure  Piston slide  RCM Mark  cUL us - Recognized (OL)  Protection class  IP40  IP65  with plug socket  Annu  Sealing principle  Soft  Any  Manual override  detenting Pushing Covered  Type of piloting  Pilot pressure  Overed  Pilot pressure MPa  Dito pressure  Suitability for vacuum  Yes  Switching time reversal  Out ycycle  1.5 8 bar  Suitability for vacuum  Yes  Switching time reversal  Owendana, positive test pulse with logic 0  Max. negative test pulse with logic 1  Owax. negative test pulse with logic 1  Operating medium  Compressed air in accordance with ISO8573-11:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation cere in accordance with FN 942017-5 and EN 6008-8-2-6  Restriction ambient and medium temperature  Without holding current reduction  5 - 5 0 °C  Shock resistance  Shock kest with severity level 2 in accordance with FN 942017-5 and EN 6008-2-6  PMIS conformity  VoMA2364-B1/E2-L	Type of actuation	electrical
Operating pressure MPa Operating pressure Operating medium Operating operating operating operating operating Operating Operating medium Operating medium Operating medium Operating medium Operating o	Valve size	10 mm
Operating pressure Design structure Piston silide Authorisation RCM Mark C UL us - Recognized (OL) Protection class Protectio	Standard nominal flow rate	210 330 l/min
Design structure Authorisation RCM Mark c UL us - Recognized (OL) Protection class IP40 IP65 With plug socket Nominal size 4 mm Exhaust-air function Sealing principle soft Assembly position Manual override detenting Pushing Covered Type of piloting Pilot air supply Pushing Covered Pilot pressure Pilot pressure By ushing Suitability for vacuum Yes Switching time reversal Type Switching time reversal Type Switching time reversal Type Switche test pulse with logic 0 Max. positive test pulse with logic 1 Doy By Max. negative test pulse with logic 1 Doyerating medium Compressive Switching time reversal Duty cycle Ass. negative test pulse with logic 1 Doy Genzateristic coil data 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W Permissible voltage fluctuation 4/- 10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7-4:4] Note on operating and pilot medium Operating medium temperature Without not possible (subsequently required for further operation) Vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance classification CRC VDMA24364-B1/B2-L	Operating pressure MPa	-0.09 1 MPa
Authorisation RCM Mark c UL us - Recognized (OL) Protection class IP40 IP65 With plug socket  Nominal size 4 mm Exhaust-air function throttleable Sealing principle 5 oft Any Manual override detenting Pushing Covered Type of piloting Pilotad Pilot air supply external Overlap Positive overlap Pilot pressure MPa 0.15 0.8 MPa Pilot pressure MPa 0.15	Operating pressure	-0.9 10 bar
c UL us - Recognized (OL)  Protection class  IP40  IP40  IP65  with plug socket  Nominal size  Exhaust-air function  Sealing principle  Soft Any  Manual override  detenting Pushing Covered  Type of piloting  IPilotar  Spelliar supply  external  Overlap  Plot pressure  In 5 8 bar  Suitability for vacuum  Yes  Switching time reversal  Duty cycle  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Any  Permissible voltage fluctuation  April Universide fluctuation  April Universide fluctuation  April Universide fluctuation  April Operating and pilot medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Lubricated operation possible (subsequently required for further operation)  Vibration resistance  Shock resistance  Shock resistance  Shock resistance classification CRC  Ammaz conformity  VoMA23464-81/B2-L  VoMA23464-81/B2-L  Voma23646-81/B2-L  Voma23646-81/B2-L  Voma23646-81/B2-L  Voma23646-81/B2-L  Voma23646-81/B2-L	Design structure	Piston slide
Protection class IP40 IP65 with plug socket  Nominal size 4 mm  Exhaust-air function 5 soft 4 mm  Any 5 sealing principle 5 soft 5 sealing principle 5 soft 6 sealing principle 6 soft 6 sealing principle 7 soft 6 sealing principle 7 soft 6 sealing principle 8 soft 6 sealing principle 8 soft 6 sealing principle 8 soft 6 sealing principle 9 soft 6 sealing 9 sealing 1 sealing	Authorisation	RCM Mark
IP65   with plug socket		c UL us - Recognized (OL)
with plug socket  Nominal size Exhaust-air function  Sealing principle Soft Assembly position Any  Manual override  detenting Pushing Covered  Type of piloting Pilot air supply external Overlap Pilot pressure MPa Pilot pressure 1.5 0.8 MPa Pilot pressure 1.5 0.8 MPa Pilot pressure 1.5 0.8 MPa Duty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Dyperating medium Abaracteristic coil data 24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W Permissible voltage fluctuation Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Corrosion resistance classification CRC PVIMS conformity VDMA24364-B1/B2-L  VDMA24364-B1/B2-L	Protection class	IP40
Nominal size 4 mm  Exhaust-air function throttleable Sealing principle Assembly position Any  Manual override detenting Pushing Covered Type of piloting Piloted Pilot air supply external Overlap Pilot pressure MPa Pilot pressure 1.5 8 bar Suitability for vacuum Switching time reversal Duty cycle Max. negative test pulse with logic 0 Max. negative test pulse with logic 1 Down Amazer State Suitability of the Court o		IP65
Exhaust-air function throttleable soft sealing principle soft sessibly position Any detenting Pushing Covered Pilot air supply external Postitive overlap Pilot pressure MPa O.15 0.8 MPa Pilot pressure MPa		with plug socket
Sealing principle Assembly position Anny Manual override  Metenting Pushing Covered  Type of piloting Pilot air supply Overlap Pilot air supply Overlap Pilot pressure MPa O.15 0.8 MPa Pilot pressure MPa O.16 0.8 MPa Pilot pressure MPa O.17 0.8 MPa Pilot pressure MPa O.18 0.9 MPa Pilot pressure MPa O.18 0.9 MPa Pilot pressure MPa O.16 0.8 MPa Pilot pressure MPa O.17 0.8 MPa Pilot pressure MPa O.18 0.9 MPa Pilot pressure MPa O.16 0.8 MPa Pilot pressure MPa O.17 0.8 MPa Pilot pressure MPa O.18 0.9 MPa Pilot pressure MPa Positive veriale Overation pression pre	Nominal size	4 mm
Assembly position  Manual override  detenting Pushing Covered  Type of piloting Piloted Piloted Piloted Positive overlap Positive overlap Pilot pressure MPa Pilot pressure 1,5 8 bar Suitability for vacuum Yes Switching time reversal Duty cycle 100 % Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Operation of the provident of the	Exhaust-air function	throttleable
Manual override  detenting Pushing Covered  Type of piloting Piloted  Piloted  Piloted  Positive overlap Positive overlap Positive overlap Pilot pressure MPa Dity rocaum Yes Switching time reversal Duty cycle 100 % 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 Ubration resistance Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance Switching time reversal Duty cycle 100 % 700 µs	Sealing principle	soft
Pushing Covered  Type of pilotting Pilot air supply external Overlap Positive overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure 1.5 8 MPa Pilot pressure Suitability for vacuum Yes Switching time reversal Tyms Duty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Max. negative test pulse with logic 1 900 µs Characteristic coil data 24 V DC: 1 W 24 V DC: 1 W 24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W 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 Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C 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 PWIS conformity VDMA24364-B1/B2-L	Assembly position	Any
Covered Type of piloting Pilot ari supply external Overlap Positive overlap Positive overlap Pilot pressure MPa Pilot pressure 1.5 8 bar Suitability for vacuum Yes Switching time reversal Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Characteristic coil data 24 V DC: 1 W 24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubiration resistance Vibration resistance Shock resistance Shock resistance Shock resistance Corrosion resistance classification CRC PWIS conformity VDMA24364-B1/B2-L	Manual override	detenting
Piloted Pilot air supply Pilot air supply Positive overlap Positive overlap Positive overlap Pilot pressure MPa Pilot pressure Switching time reversal Puty cycle 100 % 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 Vibration resistance Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance Corrosion resistance classification CRC PWIS conformity VDMA24364-B1/B2-L  Positive vertal Positive overlap		Pushing
Pilot air supply Overlap Positive overlap Positive overlap Positive overlap Positive overlap Positive overlap Pilot pressure MPa D.15 0.8 MPa Pilot pressure 1.5 8 bar Suitability for vacuum Yes Switching time reversal 7 ms Duty cycle 100 % Max. positive test pulse with logic 0 700 μs Max. negative test pulse with logic 1 900 μs Characteristic coil data 24 V DC: 1 W 24 V DC: 1 W 24 V DC: 1 w 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W Permissible voltage fluctuation +/- 10 % 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 Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C 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 PWIS conformity VDMA24364-B1/B2-L		Covered
Overlap       Positive overlap         Pilot pressure MPa       0.15 0.8 MPa         Pilot pressure       1.5 8 bar         Suitability for vacuum       Yes         Switching time reversal       7 ms         Duty cycle       100 %         Max. positive test pulse with logic 0       700 μs         Max. negative test pulse with logic 1       900 μs         Characteristic coil data       24 V DC: 1 W         4 V DC: low-current phase 0.3 W, high-current phase 1.0 W         Permissible voltage fluctuation       +/- 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       Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6         Restriction ambient and medium temperature       Without holding current reduction -5 · 50 °C         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         PWIS conformity       VDMA24364-B1/B2-L	Type of piloting	Piloted
Pilot pressure MPa Pilot pressure 1.5 8 bar  Suitability for vacuum Yes Switching time reversal 7 ms Duty cycle 100 % Max. positive test pulse with logic 0 700 μs Max. negative test pulse with logic 1 900 μs Characteristic coil data 24 V DC: 1 W 24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W Permissible voltage fluctuation +/- 10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubiricated 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 Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance Shock severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L	Pilot air supply	external
Pilot pressure  1.5 8 bar  Suitability for vacuum  Yes  Switching time reversal  7 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  700 μs  Max. negative test pulse with logic 1  Characteristic coil data  24 V DC: 1 W 24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W  Permissible voltage fluctuation  +/- 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  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 · 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Overlap	Positive overlap
Suitability for vacuum  Switching time reversal  7 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  700 µs  Max. negative test pulse with logic 1  Characteristic coil data  24 V DC: 1 W  24 V DC: 1 W  24 V DC: low-current phase 0.3 W, high-current phase 1.0 W  Permissible voltage fluctuation  4/- 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  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction  -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Pilot pressure MPa	0.15 0.8 MPa
Switching time reversal       7 ms         Duty cycle       100 %         Max. positive test pulse with logic 0       700 μs         Max. negative test pulse with logic 1       900 μs         Characteristic coil data       24 V DC: 1 W         24 V DC: low-current phase 0.3 W, high-current phase 1.0 W         Permissible voltage fluctuation       +/- 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       Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6         Restriction ambient and medium temperature       Without holding current reduction -5 - 50 °C         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         PWIS conformity       VDMA24364-B1/B2-L	Pilot pressure	1.5 8 bar
Duty cycle  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Characteristic coil data  24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W  Permissible voltage fluctuation  4/- 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  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Suitability for vacuum	Yes
Max. positive test pulse with logic 0700 μsMax. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 WPermissible voltage fluctuation+/- 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 60068-2-6Restriction ambient and medium temperatureWithout holding current reduction -5 - 50 °CShock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-L	Switching time reversal	7 ms
Max. negative test pulse with logic 1  Poo μs  Characteristic coil data  24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W  Permissible voltage fluctuation  +/- 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  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Duty cycle	100 %
Characteristic coil data  24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W  Permissible voltage fluctuation  4/- 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  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Max. positive test pulse with logic 0	700 μs
24 V DC: low-current phase 0.3 W, high-current phase 1.0 W  Permissible voltage fluctuation +/- 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 Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C  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  PWIS conformity VDMA24364-B1/B2-L	Max. negative test pulse with logic 1	900 μs
Permissible voltage fluctuation +/- 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 Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C  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  PWIS conformity VDMA24364-B1/B2-L	Characteristic coil data	24 V DC: 1 W
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  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L		24 V DC: low-current phase 0.3 W, high-current phase 1.0 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  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Permissible voltage fluctuation	+/- 10 %
operation)  Vibration resistance  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  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  PWIS conformity  VDMA24364-B1/B2-L	Note on operating and pilot medium	
-5 - 50 °C  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  VDMA24364-B1/B2-L	Vibration resistance	
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  VDMA24364-B1/B2-L	Restriction ambient and medium temperature	
PWIS conformity VDMA24364-B1/B2-L	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN
PWIS conformity VDMA24364-B1/B2-L	Corrosion resistance classification CRC	2 - Moderate corrosion stress
,		
	Medium temperature	-5 60 °C



Feature	Value
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 60 °C
Product weight	45 g
Electrical connection	Via electrical connection plate
Mounting type	on manifold rail
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Material housing	Wrought Aluminium alloy