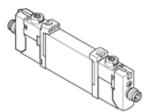
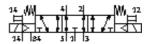
## solenoid valve VUVG-B10-P53E-ZT-F-1R8L Part number: 574241

**FESTO** 

This type is suitable for vacuum.





## **Data sheet**

Design structure Type of reset Authorisation RCM Mark C CSA us (OL) C UL us - Recognized (OL) Protection class IP65 with plug socket Nominal size 4 mm Exhaust air function throttleable Sealing principle soft Any Manual override Pushing Covered Type of piloting Pilot air supply Overlap Indefinite overlap Indefinite overlap Indefinite overlap Switching time off Switching time on Switching time on Switching time reversal Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 0 Max. negative test pulse with logic 1 Max. nogative test pulse with logic 1 Max. positive test pulse with logic 1 Max. nogative test pulse with logic 0 Max. nogative tes	Feature	Value
Valve size Standard nominal flow rate Qob 300 1/min Operating pressure Qob 10 bar Design structure Piston slide Quartic CSA us (01) CUL us - Recognized (0L) Protection class Piston class class Piston class	Valve function	5/3 exhausted
Standard nominal flow rate Operating pressure Operating pressure Operating pressure Piston slide Type of reset Authorisation RCM Mark CCSA us (OL) CUL us - Recognized (OL) Protection class IP65 with plug socket A mm Exhaust-air function Sealing principle Sealing principle Sealing principle Sealing principle Any Manual override detenting Pushing Covered Type of pluting Pilot air supply Indefinite overlap Bilot pressure Suitability for vacuum Yes Switching time off 30 ms Switching time reversal Duty cycle Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Max. positive test pulse with logic 1 Poerating medium Compression Operating medium Compression Operating and pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Operating and pilot 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 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 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 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 Compressed air in accordance with FN 942017-5 and EN 60068-2-6 Restriction ambient and medium temperature  5 - 50 °C Without holding current reduction Shock resistance Shock kest with severtylevel 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance Shock test with severtylevel 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance Shock test with severtylevel 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance classification	Type of actuation	electrical
Operating pressure     9.9 10 bar       Design structure     Piston slide       Type of reset     mechanical spring       Authorisation     RCM Mark       c CSA us (OL)     cUL us - Recognized (OL)       Protection class     IP65       With plug socket     with plug socket       Nominal size     4 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Manual override     detenting       Pushing     Covered       Type of piloting     Piloted       Plot air supply     external       Overlap     Indefinite overlap       Pilot pressure     3 8 bar       Suitability for vacuum     Yes       Switching time off     30 ms       Switching time on     10 ms       Switching time on     10 ms       Switching time reversal     15 ms       Duty cycle     100 %       Max. positive test pulse with logic 0     700 µs       Max. positive test pulse with logic 1     900 µs       Characteristic coil data     4/* 10 %       Permissible voltage fluctuation     4/* 10 %       Operating medium     Compressed air in accordance with ISO8573-1:2010 [7-4:4]       Note on operating and pilot medium <td>Valve size</td> <td>10 mm</td>	Valve size	10 mm
Design structure Type of reset Authorisation Protection class Protection c	Standard nominal flow rate	200 300 l/min
Type of reset Authorisation RCM Mark c CSA us (OL) c UL us - Recognized (OL) Protection class IP65 with plug socket Nominal size 4 mm Exhaust-air function Sealing principle soft Assembly position Any Manual override detenting Pushing Covered Pushing Covered Pilot air supply external Overlap Pilot air supply external Overlap Indefinite overlap Pilot pressure 38 bar Suitability for vacuum Yes Switching time off 30 ms Switching time off 30 ms Switching time reversal Duty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Permissible voltage fluctuation Operating medium Comperating and pilot medium Urbration resistance Frenissibace Freni	Operating pressure	-0.9 10 bar
Type of reset Authorisation RCM Mark c CSA us (OL) c UL us - Recognized (OL) Protection class IP65 with plug socket Nominal size 4 mm Exhaust-air function Sealing principle soft Assembly position Any Manual override detenting Pushing Covered Pushing Covered Pilot air supply external Overlap Pilot air supply external Overlap Indefinite overlap Pilot pressure 38 bar Suitability for vacuum Yes Switching time off 30 ms Switching time off 30 ms Switching time reversal Duty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Permissible voltage fluctuation Operating medium Comperating and pilot medium Urbration resistance Frenissibace Freni	Design structure	Piston slide
c CSA us (OL) c Ut us - Recognized (OL) Protection class    P65   with plug socket   Nominal size	Type of reset	mechanical spring
c UL us - Recognized (OL)  Protection class  IP65 with plug socket  Nominal size 4 mm  Exhaust-air function 5 soft Assembly position Any Manual override Pushing Covered  Type of piloting Pilot air supply Pilot air supply Overlap Pilot air supply Overlap Pilot pressure Suitability for vacuum Switching time off Switching time reversal Duty cycle Max. negative test pulse with logic 0 Max. positive test pulse with logic 1 Operatings medium Note on operating and pilot medium Poresitance Restriction ambient and medium temperature  Location of Corrosion resistance Medium temperature  Medium temperature  Location of Corrosion stress  Wetchen and medium temperature  Location of Corrosion stress  Horderate corrosion stress	Authorisation	RCM Mark
Protection class with plug socket  Nominal size		c CSA us (OL)
with plug socket  A mm  Exhaust-air function  Sealing principle Sealing Pushing Covered  Type of piloting Plioting Plioting Plioted Plioted Pliot air supply Sexternal Overlap Pliot pressure Suitability for vacuum Yes Switching time on Switching time off Some Switching time on South on Sealing Se		c UL us - Recognized (OL)
Nominal size Exhaust-air function Exhaust-air function Sealing principle Assembly position Any Manual override Pilot air supply Manual override Manual overed	Protection class	IP65
Exhaust-air function throttleable Sealing principle Assembly position Any Manual override  Algertaria Supply Any Any Any Manual override Actenting Pushing Covered Type of piloting Pilot air supply Avernal Overlap Pilot air supply Avernal Overlap Indefinite overlap Indefinite overlap Pilot pressure  Suitability for vacuum Yes Switching time off 30 ms Switching time on 10 ms Switching time reversal Duty cycle 100 % Max. positive test pulse with logic 0 700 µs Max. negative test pulse with logic 1 Done Characteristic coil data 24 V DC: 1 W Permissible voltage fluctuation Aperating 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 942017-5 and EN 60068-2-2 Without holding current reduction Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-2 Corrosion resistance classification CRC 2 - Moderate corrosion stress Medium temperature 5 - 60 °C  Medium temperature 5 - Medium temperature		with plug socket
Sealing principle Assembly position Any Manual override  Metenting Pushing Covered  Type of piloting Pilot air supply Pilot air supply Overlap Pilot pressure 3 8 bar Suitability for vacuum Yes Switching time off 30 ms Switching time on 10 ms Switching time reversal 15 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 Permissible voltage fluctuation 4/- 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 942017-5 and EN 60068-2-2 Without holding current reduction Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-2 Corrosion resistance classification CRC 2 - Medium temperature 5 - 00 °C  Wedium temperature 5 - 00 °C  Medium temperature 5 - 00 °C  Wedium temperature 5 - 00 °C	Nominal size	4 mm
Assembly position  Manual override  detenting Pushing Covered  Type of piloting Piloted Piloted Pilot air supply external Overlap Pilot pressure 38 bar Suitability for vacuum Yes Switching time off 30 ms Switching time off 30 ms Switching time reversal Duty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Ohracteristic coil data 24 V DC: 1 W 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 Without holding current reduction Shock resistance Shock resistance Corrosion resistance classification CRC Alexandre Air Subsequently required for Subsequently required on 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 3-5 - 60 °C Without holding current reduction	Exhaust-air function	throttleable
Manual override  detenting Pushing Covered  Type of piloting Piloted  Pilot air supply external Overlap Indefinite Indefinite overlap Indefinite Indefinite overlap Indefinite Indefinite Indefinite Indefinite Indefinite Indefinite Indefinite	Sealing principle	soft
Pushing Covered  Type of piloting Pilot air supply external Overlap Pilot pressure 3 8 bar Suitability for vacuum Yes Switching time off 30 ms Switching time off 30 ms Switching time reversal 15 ms Duty cycle 100 % Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Deractiristic coil data 24 V DC: 1 W Permissible voltage fluctuation Operating medium Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Restriction ambient and medium temperature Shock resistance Shock resistance Shock resistance Medium temperature  Pilote Pilot	Assembly position	Any
Pushing Covered  Type of piloting Pilot air supply external Overlap Pilot pressure 3 8 bar Suitability for vacuum Yes Switching time off 30 ms Switching time off 30 ms Switching time reversal 15 ms Duty cycle 100 % Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Deractiristic coil data 24 V DC: 1 W Permissible voltage fluctuation Operating medium Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Restriction ambient and medium temperature Shock resistance Shock resistance Shock resistance Medium temperature  Pilote Pilot	Manual override	detenting
Pilot air supply external Overlap Indefinite overlap Pilot pressure 3 8 bar Suitability for vacuum Yes Switching time off 30 ms Switching time on Switching time eversal Duty cycle 100 % 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 Vibration resistance Restriction ambient and medium temperature Find the first suite and some services of the first services of the fi		
Pilot air supply Overlap Indefinite overlap Pilot pressure 3 8 bar Suitability for vacuum Yes Switching time off 30 ms Switching time on 10 ms Switching time reversal 15 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 Permissible voltage fluctuation 4/- 10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Uubricated 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 5-5-50 °C Without holding current reduction 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 -560 °C		Covered
Pilot air supply Overlap Indefinite overlap Pilot pressure 3 8 bar Suitability for vacuum Yes Switching time off 30 ms Switching time on 10 ms Switching time reversal 15 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 Permissible voltage fluctuation 4/- 10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Uubricated 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 5-5-50 °C Without holding current reduction 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 -560 °C	Type of piloting	Piloted
Pilot pressure  3 8 bar  Suitability for vacuum  Yes  Switching time off  30 ms  Switching time on  10 ms  Switching time reversal  15 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  24 V DC: 1 W  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 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 · Moderate corrosion stress  Medium temperature  3 8 bar  Yes  Switching time off  30 ms  50 ms  10 ms  5 ms  4 / 0 %  Without holding current reduction	Pilot air supply	external
Suitability for vacuum  Switching time off  30 ms  Switching time on  10 ms  Switching time reversal  15 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Uubricated 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  Shock resistance  Corrosion resistance classification CRC  2 - Moderate corrosion stress  Medium temperature  -5 60 °C	Overlap	Indefinite overlap
Switching time off Switching time on Switching time reversal 15 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 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 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 60 °C	Pilot pressure	3 8 bar
Switching time on 10 ms  Switching time reversal 15 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  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 5-5 o °C  Without holding current reduction  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 · 60 °C	Suitability for vacuum	Yes
Switching time reversal  Duty cycle  100 %  Max. positive test pulse with logic 0  700 μs  Max. negative test pulse with logic 1  Characteristic coil data  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  Restriction ambient and medium temperature  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 · 60 °C	Switching time off	30 ms
Switching time reversal  Duty cycle  100 %  Max. positive test pulse with logic 0  700 μs  Max. negative test pulse with logic 1  Characteristic coil data  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  Restriction ambient and medium temperature  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 · 60 °C	Switching time on	10 ms
Duty cycle100 %Max. positive test pulse with logic 0700 μsMax. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 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 temperature-5 - 50 °C Without holding current reductionShock 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 60 °C		15 ms
Max. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 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 temperature-5 - 50 °CWithout holding current reductionShock 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 60 °C	Duty cycle	100 %
Max. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 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 temperature-5 - 50 °CWithout holding current reductionShock 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 60 °C	Max. positive test pulse with logic 0	700 μs
Characteristic coil data  24 V DC: 1 W  Permissible voltage fluctuation  4/- 10 %  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Vibration resistance  Vibration ambient and medium temperature  Shock resistance  Shock resistance  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Lubricated operation possible (subsequently required for further operation)  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Without holding current reduction  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 60 °C		900 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  Restriction ambient and medium temperature  -5 - 50 °C  Without holding current reduction  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 60 °C	Characteristic coil data	24 V DC: 1 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  Restriction ambient and medium temperature  -5 - 50 °C  Without holding current reduction  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 60 °C	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  -5 - 50 °C  Without holding current reduction  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 60 °C	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
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  -5 - 50 °C  Without holding current reduction  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 60 °C	Note on operating and pilot medium	
Without holding current reduction  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 60 °C	Vibration resistance	Transport application test at severity level 2 in accordance with FN
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 60 °C	Restriction ambient and medium temperature	
Medium temperature -5 60 °C	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN
Medium temperature -5 60 °C	Corrosion resistance classification CRC	2 - Moderate corrosion stress
PHOT MACHIM	Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]



Feature	Value
Ambient temperature	-5 60 °C
Product weight	55 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