Rang 61

SMS STANDARD

SMS valves and accessories

Model 61417 90° filter with plain ends - NBR gaskets - 304 or 316L stainless steel

Specifications

Dimensions: DN25 to DN104 (1" to 4")

Connection: to be welded

In-line fluid inlet / fluid outlet at 90°

Max. operating pressure:

22 bar from DN25 to DN51

12 bar from DN63 to DN76

8 bar for DN104 valves

Temperature: -10°C to +100°C (NBR gasket)

Filtration: 1mm mesh (standard)

Material: 304 or 316L stainless steel

NBR gaskets as standard

(for the parts that can come into contact with the transported fluid)

ISO 9001 BUREAU VERITAS Certification

CE

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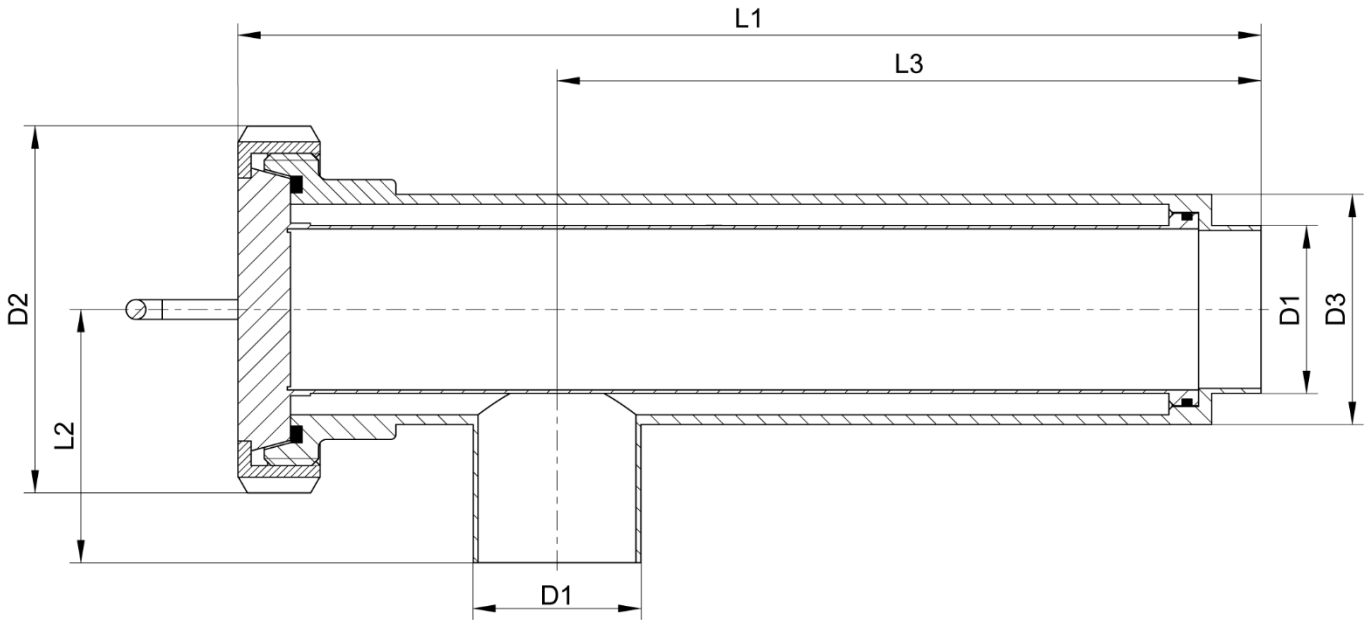

DN (mm)	NB (inches)	Max. operating pressure (bar)	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Filtering area* (cm²)	Weight (kg)	Part number 304	Part number 316L
25	**1"**	22	25	112	70	311	77	214	413	3.1	**261417-25**	**661417-25**
38	**1"1/2**	22	38	112	70	311	77	214	413	3.1	**261417-38**	**661417-38**
51	**2"**	22	51	112	70	311	77	214	413	3.1	**261417-51**	**661417-51**
63	**2"1/2**	12	63.5	148	114	349	102	242	782	5.5	**261417-63**	**661417-63**
76	**3"**	12	76	148	114	349	102	242	782	5.5	**261417-76**	**661417-76**
104	**4"**	8	104	178	140	438	123	315	1360	8.5	**261417-104**	**661417-104**

** 304 or 316L stainless steel filters - 1mm diameter mesh holes as standard (please contact us for information about other mesh hole sizes)*

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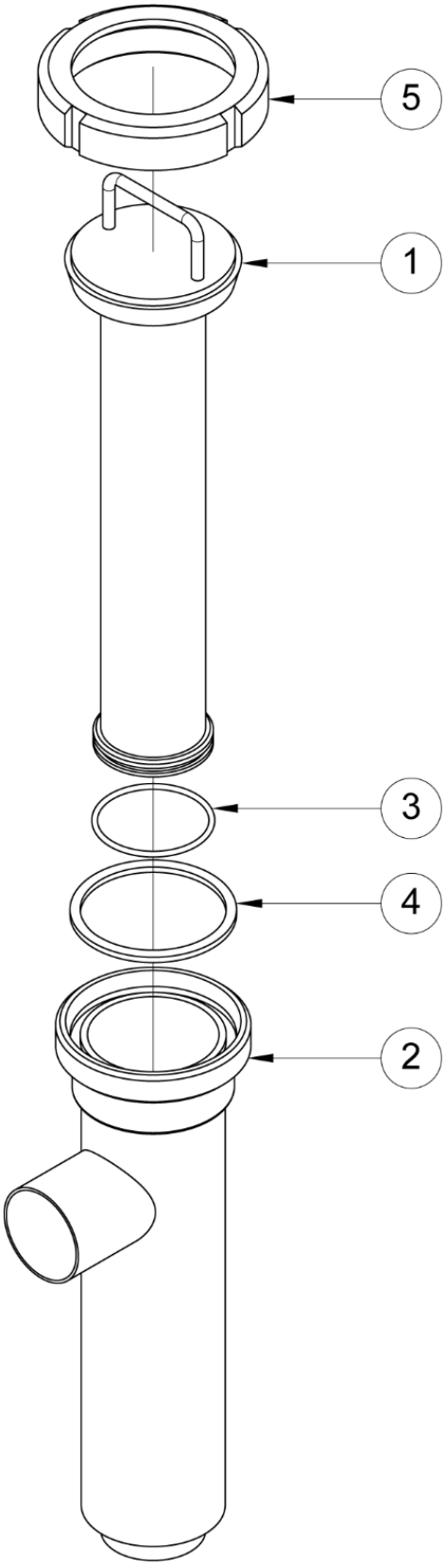

N°	Part Name	Material
1	FILTERING ELEMENT (SIEVE)	AISI 304 / AISI 316L
2	BODY	AISI 304 / AISI 316L
3	O-RING	NBR*/ EPDM/FKM
4	HALF RING GASKET	NBR*/ EPDM/FKM
5	SLOTTED NUT	AISI 304

** as standard*

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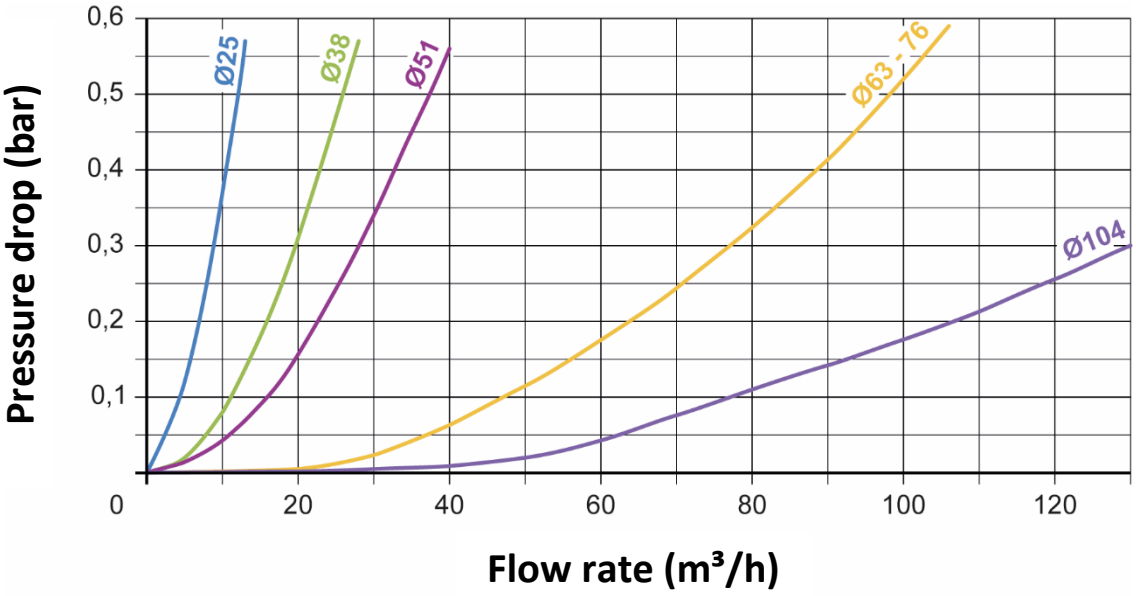
Use

Pressure drop

Pressure drop with a 1mm mesh, for water at 20°C.



Fluids

This 90° filter is suitable for non-abrasive and non-coagulable fluids, as long as the fluids are chemically compatible with the parts that they can come into contact with.

Chemical resistance depends on the type of gasket used (NBR gasket as standard) and the fluid passing through the filter. Please contact us if you have any questions.

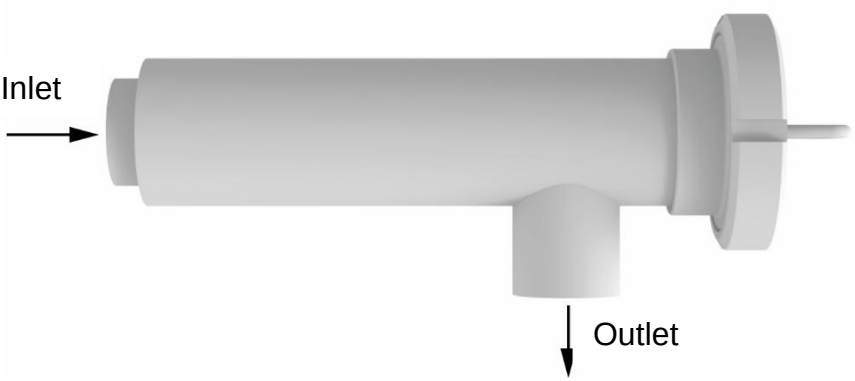
Warning: If the valve is used with fluids that have a temperature above 60°C then people could burn themselves if they touch it.

Assembly and maintenance instructions

Installation

The filter can operate in any position. However, it is best to position the filter horizontally with the outlet facing downwards (see diagram below) in order to avoid product retention during its use or product loss during disassembly.

You must take into account the direction of fluid circulation shown in the diagram below ('in-line' fluid inlet/fluid outlet at 90°).
The fluid must not arrive through the outlet that is positioned at 90° to the filter sieve as this could damage the sieve mesh.



Check that there is enough space to carry out maintenance operations where you are planning to install the filter.

Make sure that the piping is perfectly aligned and its support structure sufficiently dimensioned so that the filter is not subject to any external stresses. The support structure must support the pipes and not the filter directly.

Installing the 90° filter:
Welding must be carried out by qualified personnel.
You must disassemble the filter to avoid damaging its sieve and gaskets during welding. Disassemble the filter (remove the sieve) to weld the 2 ends of the filter to the piping, then reassemble the sieve after welding.

Clean the installation and check that the equipment is clean and free from foreign bodies that could damage the filter.

Pressure test the installation according to the relevant standards (e.g. EN 12266-1), but do not exceed the filter's specifications.

Maintenance

The filter can be cleaned manually if you remove the sieve element or it can be cleaned using a CIP (Clean in Place) process.
However, periodic disassembly of the filter is necessary to remove particles and impurities that accumulate during filtration and to check that the sieve is not blocked (too great a blockage will increase plant pressure losses and may cause damage to the sieve).
The frequency of this operation is to be defined by the user according to the characteristics of the fluid passing through the filter.

If you need to disassemble the filter, see the 'Assembly / Disassembly' section below.

Assembly / Disassembly

The maintenance and removal/installation of the filter must be carried out by personnel who are qualified and trained for this type of intervention.

Warning: Before you work on the filter check that the installation has been stopped and that the piping is empty and is not pressurised.
Warning: If the filter is used with fluids that have a temperature above 60°C then people could burn themselves if they touch it.
Warning: Beware of hazardous materials - follow the instructions provided by the suppliers.

Unscrew the slotted nut **5** to disassemble the filter, use a wrench for SMS/DIN slotted nuts.
Completely remove the sieve element **1**, using its handle, so that you can clean it.

Before you reassemble the filter, check that its different parts are in good condition. You are strongly advised to replace the sealing parts (gaskets **3** and **4**).

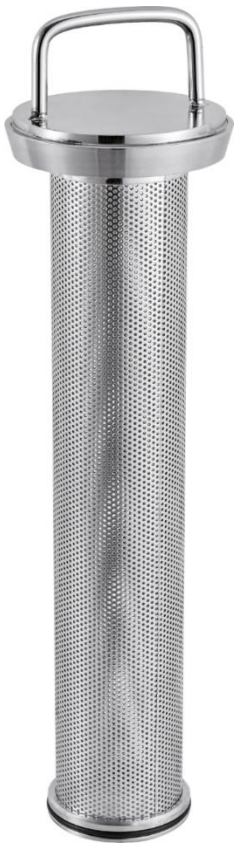
Replace the filter **1** and tighten the slotted nut **5**.

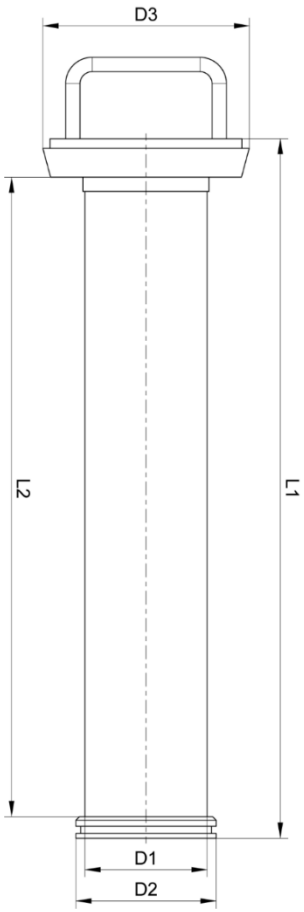
→ Please see our Fittings catalogue - Range **65**: Miscellaneous accessories for our wrenches for SMS/DIN slotted nuts: models **65613**, **65614** and **65620**.

Standards and compliance

- This valve complies with EC Directive 1935/2004.
- This valve complies with European Pressure Equipment Directive (PED) 2014/68/EU Article 4 paragraph 3.

Spare parts





DN (mm)	NB (inches)	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)
25 to 51	1" to 2"	51	58.6	86	291	266
63 to 76	2"1/2 to 3"	83	94.6	120	328	303
104	4"	110	123.5	153	411	387

DN (mm)	NB (inches)	Part number 0.1mm Ø mesh holes 316L	Part number 0.2mm Ø mesh holes 316L	Part number 0.3mm Ø mesh holes 316L	Part number 0.5mm Ø mesh holes 316L	Standard part number 1mm Ø mesh holes 304	Standard part number 1mm Ø mesh holes 316L	Part number 2mm Ø mesh holes 316L	Part number 3mm Ø mesh holes 316L
25 to 51	25 to 51	*	*	661419-2551M03	661419-2551M05	261419-2551	661419-2551	661419-2551M2	*
63 to 76	2"1/2 to 3"	*	*	661419-6380M03	661419-6380M05	261419-6380	661419-6380	661419-6380M2	*
104	4"	*	*	*	661419-104M05	261419-104	661419-104	661419-104M2	*

** on request*

Filtration level	Type of mesh	Mesh hole surface area (Perforation %)
Smaller than 500 µm	Dutch weave (Reps)	16-18
500 µm	Perforated sheet	20
1 mm	Perforated sheet	22
Greater than 1mm	Perforated sheet	33 - 40

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