

# Single Filter F119

## With threaded couplings G ½ - 2

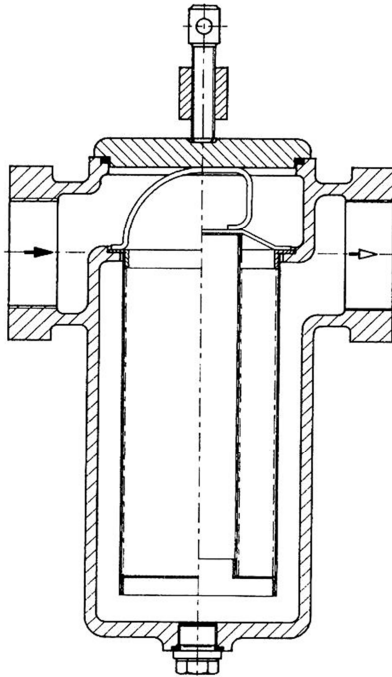


Fig. 1: Standard design F119

Nominal width DN	Nominal pressure PN
G ½ - 2	F119G :6 F119L, A, R :10

### Field of Application

The type series F119 comprehend sleeve filters in various material designs for multiple purposes (type F119G, L, A, R). In particular, they are suitable for filtering liquid media in case of low working pressures. It is used as a filter for fine and coarse particles by selecting different strainer cloths.

### Abstract

The filter consists of a body and a cover with a clamp lock, and a strainer insert. The strainer insert consists of a perforated plate, alternatively covered with a cloth made of various materials having different mesh widths. The medium to be filtered will enter the filter from above and, as a rule, it will flow through the insert from the inside to the outside. Hence, the contaminations will remain within the strainer insert.

### Security information

The filter with clamp is not applicable for the filtration of dangerous media (e.g. toxic, flammable or caustic) and gases, respectively steams! In these cases the single filters F118S or F105 can be attached.

### Installation

The filter will be inserted into the piping using sleeve joints. The inlet and outlet are arranged at the same level. Please ensure that the filter of the standard design is vertically installed - with the cover located at the top, without any additional loads, and mechanically stress-free. Make sure that the medium flows through the filter in the direction of the arrow casted onto the body. A wrong installation may lead to functional disturbances of the filter.

**Attention!** As we are dealing with a pressure vessel, it should be necessarily ensured at any rate that the vessel is absolutely unpressurized before starting the maintenance work. The safety rules and the regulations for the prevention of accidents required for the relevant medium have to be followed.

# Single Filter F119

## With threaded couplings G ½ - 2

### Cleaning

1. Depressurize the filter using venting or drain devices
2. Loosen the lock of the vessel and lift off the cover
3. Using the drain device, empty the filter at least down to the level of the strainer support
4. Pull the strainer insert upwards and lift it out of the filter body. Now the strainer can be cleaned by blowing out or blasting using compressed air, steam, or water. If necessary, the strainer should be soaked and cleaned using a suitable agent. Possibly, an optimal cleaning will be obtained using ultrasonics. In case of all these modes of cleaning you should always take care not to damage the filter mesh.
5. During the reassembly, following the disassembly procedure in reverse, you should make sure to avoid any damage to the sealing elements; if necessary, they should be replaced

	Standard design	Special designs resp. supplementary equipment
<b>Strainer insert</b>	Basket strainer	Ring type strainer, filter element
<b>Filter fineness</b>	80 - 1000 µm : with support plate from 1 mm : perforated plate	10 - 60 µm
<b>Filter lock</b>	Clamp with toggle screw	-
<b>Drain device</b>	Locking screw	-
<b>Connection</b>	Female pipe thread/Whitworth	NPT, with welding studs
<b>Materials:</b>		
Body and cover	G: GGG-50                    A: 1.4581/1.4571 L: G-AlSi10Mg(Cu)        R: Fine bronze	-
Clamp	GGG-50	-
Cover sealing (O-Ring)	Buna N	FPM, EPDM, PTFE
Perforated plate/cloth (strainer)	Steel, Steel/1.4401, 1.4301, 1.4301/1.4401	1.4571, 1.4571/1.4401, Brass/Bronze
Drain plug	Brass, stainless steel	-
<b>Surface treatment inside and outside</b>		
F119G	Powder coating RAL 5018 turquoise	-
F119A	Glass bead blasted	-
F119L + F119R	Untreated	-
<b>Options:</b>		
Filter element		Pulp
Magnetic insert		

Special design and materials are available upon request.

# Single Filter F119

## With threaded couplings G ½ - 2

### Technical data and dimensions

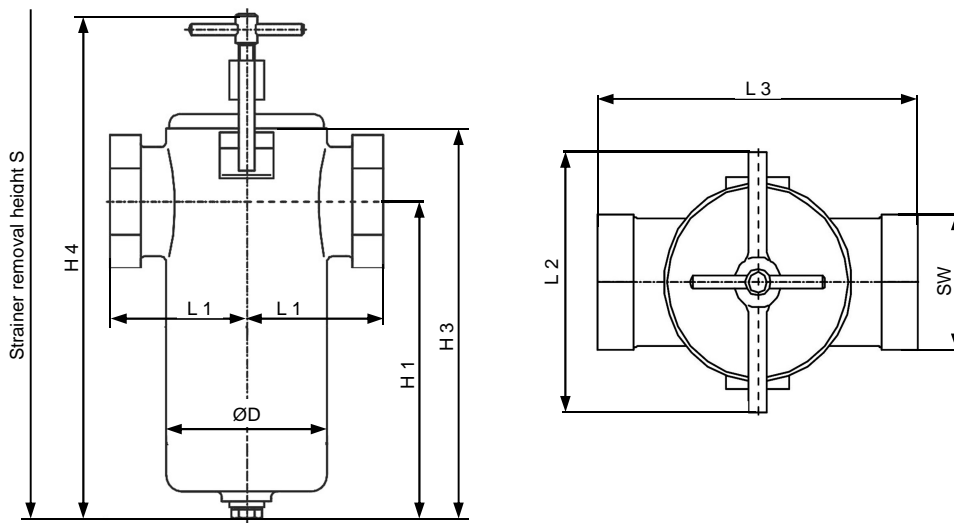


Fig. 2: Dimensions of standard design

DN	PN		ØD	H1	H3	H4	L1	L2	L3	S	SW	Volume	Flow rate	Filter area		Weight			
	G	L, A, R												Basket strainer	Ring type strainer	L	G	A	R
G	bar	bar	mm	mm	mm	mm	mm	mm	mm	mm	mm	dm <sup>3</sup>	m <sup>3</sup> /h	cm <sup>2</sup>	cm <sup>2</sup>	kg	kg	kg	kg
1/2	6	10	118	221	272	352	100	154	200	545	80	2,5	1,1	400	640	4	10	11	12
3/4	6	10	118	221	272	352	100	154	200	545	80	2,5	2,5	400	640	4	10	11	12
1	6	10	118	221	272	352	100	154	200	545	80	2,5	4,5	400	640	4	10	11	12
1 1/4	6	10	118	221	272	352	100	154	200	545	80	2,5	7	400	640	4	10	11	12
1 1/2	6	10	118	221	272	352	100	154	200	545	80	2,5	10	400	640	4	10	11	12
2	6	10	118	221	272	352	100	154	200	545	80	2,5	18	400	640	4	10	11	12

The flow rates refer to an inlet speed of 2,5 m/s in pressure pipes, a viscosity of 1 mPas (water) and filter fineness of  $\geq 80 \mu\text{m}$ . For suction pipes half of the flow is recommended.

The measurements for ancillary and special equipment are available on request.

Our quality assurance system  
conforms to ISO 9001:2008

