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Singlefilter

Series OV



Data-Sheet

DN 20 (3/4") – DN 250 (10")



General

Single filter OV provides a cost-effective method of protecting pipeline equipment, cleaning liquids or salvaging valuable solids.

Incorporated are a number of special features and optional extras. The filter is of cast construction and is supplied with one high quality stainless steel cylindrical basket. It is used in liquid handling installations where the flow can be shut off for short periods to allow the removal of the basket for cleaning.

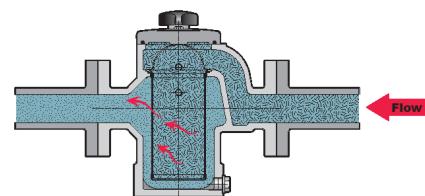


Main Features

- High quality 316 grade stainless steel basket with large filtration areas resulting in low pressure drops
- Compact design for space saving
- Working pressures up to 50 bar (A300 Series)
- Quick release filter covers and knobs for easy maintenance

Options

- Range of extras allowing filter to be customised
- Available in cast iron, cast steel, gunmetal (bronze) or stainless steel
- Visual/Electrical differential pressure indicators are available
- Magnetic columns (pre-magnetic filtration)



General safety instructions



- To prevent accidents, the installation, connection and commissioning may only be carried out by authorized and qualified personnel.



Note:

1. When installed in open air, the filter must be protected from frost.
2. The flow depends on the dirt load and fineness.

Product-details

Model	OV	OV/S	OV/GM	OV/SS	OV/S A300 Series	OV/SS A300 Series
Baskets	Stainless Steel BS1449 316 (Filtration Rating: 10, 25, 50, 80, 130, 190, 250, 380, 560, 910, 1600, 3170, 6350 µm)					
Body & Cover Material	Cast Iron EN1561 / EN-JL 1030	Cast Steel EN10213-2 / 1.0625	Gunmetal (Bronze) BS1400 Sorte LG4C	Stainless Steel BS1504 Sorte 316C16	Cast Steel EN10213-2 / 1.0625	Stainless Steel BS1504 Sorte 316C16
Drain Plug	Brass	Stainless Steel	Bronze	Stainless Steel	Stainless Steel	Stainless Steel
Vent	Stainless Steel	Stainless Steel	Phosphor- Bronze	Stainless Steel	Stainless Steel	Stainless Steel
Seals	Viton® (-20°C to +200°C)					
Max. Pressure	17 bar at 50°C	22 bar at 50°C	22 bar at 50°C *)	22 bar at 50°C	50 bar at 50°C	48 bar at 50°C
Body Colour	Blue	Silver	Natural	Natural	Silver	Natural

*) Gunmetal (bronze) DN 20, 25 and 40 filters are rated at 13,8 bar at 50°C.
DN 200 & DN 250 filters are rated at 13,8 bar bei 50°C (Standard Range)

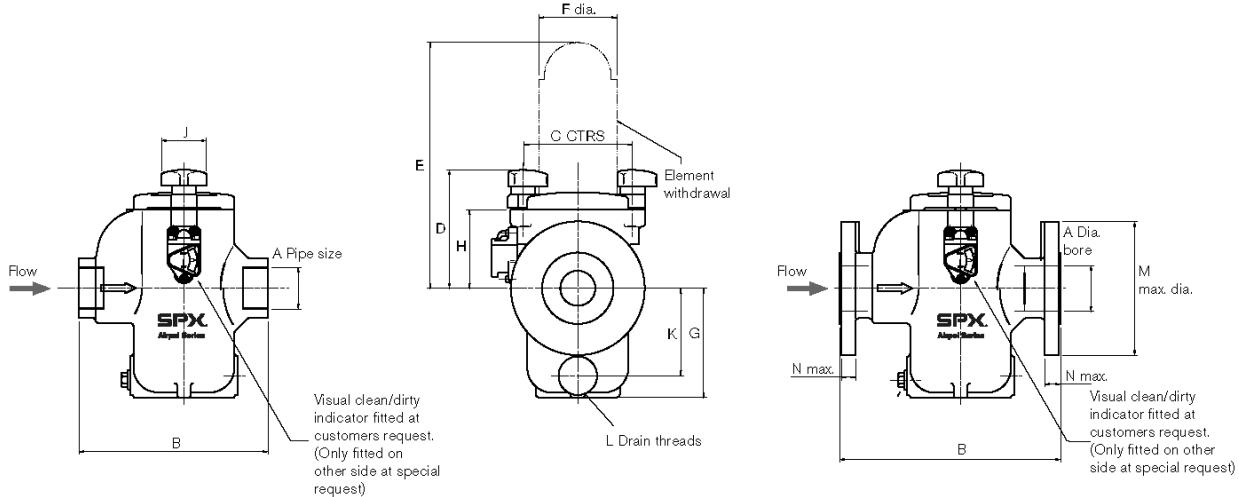
Viton is a registered trademark of DuPont Performance Elastomers.

Please note:



- These specifications refer to standard products. Alternative materials for bodies (e.g. monel, hastelloy) and seals (e.g. EPDM, PTFE) are available on request.
- Working pressure is stated at 50°C. To verify suitability of this equipment above this temperature or below 0°C, please contact our technical sales desk.
- Whilst alternative seal materials e.g. Nitrile, EPDM, PTFE are available and can be used to offer a wide range of chemical compatibility and working temperatures up to 260°C, it is recommended that such applications are discussed with our technical sales desk.

Dimension



Threaded BSP or NPT (Sizes in mm)

A Pipe Size	B	C	D	E	F	G	H	J	K	L	Element Area	Weight (Cast Iron*)
20 (1/4")	159	108	103	220	73	105	64	50	86	1/2" BSP	184 cm ²	5 kg
25 (1")	159	108	103	220	73	105	64	50	86	1/2" BSP	184 cm ²	5 kg
32 (1 1/4")	174	108	129	306	73	145	90	50	122	1/2" BSP	268 cm ²	7 kg
40 (1 1/2")	174	108	129	306	73	145	90	50	122	1/2" BSP	268 cm ²	7 kg
50 (2")	270	156	165	351	112	156	112	76	131	1/2" BSP	484 cm ²	19 kg
65 (2 1/2")	270	156	165	351	112	156	112	76	131	1/2" BSP	484 cm ²	19 kg

Flanged BS10, BS4504, ANSI or DIN (Sizes in mm)

A Dia. Bore	B	C	D	E	F	G	H	J	K	L	M**	N**	Element Area	Weight (Cast Iron*)
25 (1")	194	108	103	220	73	105	64	50	86	1/2" BSP	124	16	184 cm ²	8 kg
40 (1 1/2")	210	108	129	306	73	145	90	50	122	1/2" BSP	156	18	268 cm ²	12 kg
50 (2")	310	156	165	351	112	156	112	76	131	1/2" BSP	165	20	484 cm ²	24 kg
65 (2 1/2")	310	156	165	351	112	156	112	76	131	1/2" BSP	191	22	484 cm ²	25 kg
80 (3")	343	175	198	451	132	210	140	76	186	1/2" BSP	210	22/24	718 cm ²	42 kg
100 (4")	356	175	234	575	132	265	175	76	241	1/2" BSP	229/254	24	964 cm ²	45 kg
150 (6")	480	---	296	728	160	361	218	---	330	1/2" BSP	318	26	1835 cm ²	107 kg

*) Weights based on Cast Iron units.

**) Dimensions left of the oblique are for cast iron filters. Dimensions right of the oblique are for Steel, Stainless Steel and Bronze.

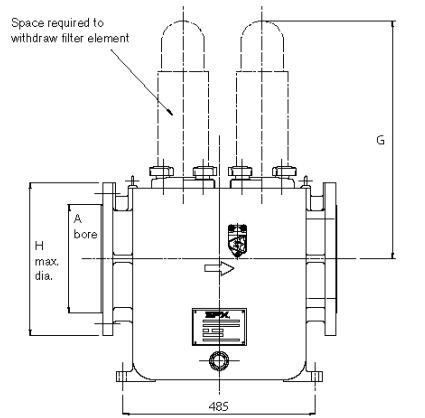
Single Filter Multibasket 200 mm (8") – 250 mm (10")

The Single Filter Multibasket extends the range of Single Filters, specially designed to be compact and easily maintained, with basket removal easier compared to other units with similar pipe size connections.

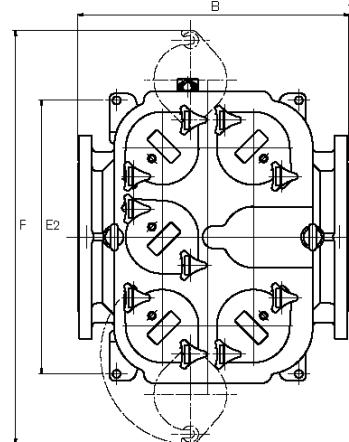
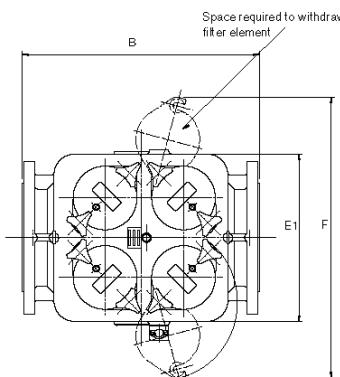
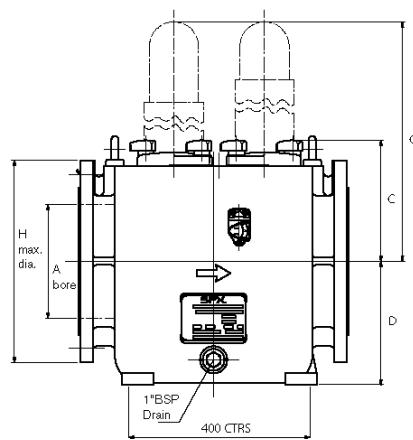
The filter is of cast construction and is supplied with four or five high quality stainless steel cylindrical baskets depending upon the size. For use in liquid handling installations where flow can be interrupted to allow the removal of baskets for cleaning.

Dimension

200 mm (8") – 4 Baskets



250 mm (10") – 5 Baskets



Flanged Drilled BS10, BS4504, ANSI or DIN (Sizes in mm)

A Dia. Bore	B	C	D	E1 / E2	F	G	H	Element Area	Weight (Cast Iron*)
200 (8")	595	230	308	420 (E1)	658	610	381	3560 cm ²	260 kg
250 (10")	595	276	272	600 (E2)	908	610	445	4536 cm ²	391 kg

OPTIONAL

Differential Pressure Indicator (D.P.I.)

As filter baskets become clogged with debris, the pressure drop increases. In order to maintain efficient filtration and line pressure it is important that baskets are cleaned regularly.

The Differential Pressure Indicator is designed to monitor basket conditions and provide visual warning that cleaning is required.

Available as an optional extra on all single- and dualfilters, the indicator is mounted directly on to the filter body and indicates the differential pressure across each basket.



Main Features

- Easy to read
- Compact Design
- No pipework to become clogged
- Positive seal separates clean and dirty liquids
- Remote operation via electrical signal available if required

Specification

- Anodised aluminium casing and nitrile diaphragm for water and oil applications
- Stainless steel casing, stainless steel internals and viton diaphragm for other liquids
- Indicator preset at 10 psi. Other spring ratings available on request
- Pointer operated by internal magnet avoiding leakage through seals

GEFA Certificates

ISO 9001 - OHSAS 18001 - ISO 14001

Zusätzlich zum Qualitätsmanagementsystem **ISO 9001** hat die GEFA Prozesstechnik GmbH jetzt auch für die Bereiche Arbeitsschutz (**OHSAS 18001**) und Umweltmanagement (**ISO 14001**) ein sichtbares Zeichen:



Die **OHSAS 18001** und **ISO 14001** Zertifizierungen sind weltweit anerkannte Standards mit dem Fokus auf Personenschutz, Arbeitssicherheit, Gesundheitsvorsorge und Umweltschutz.