



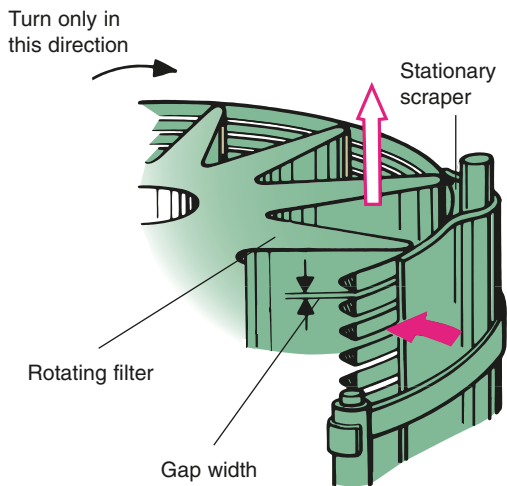
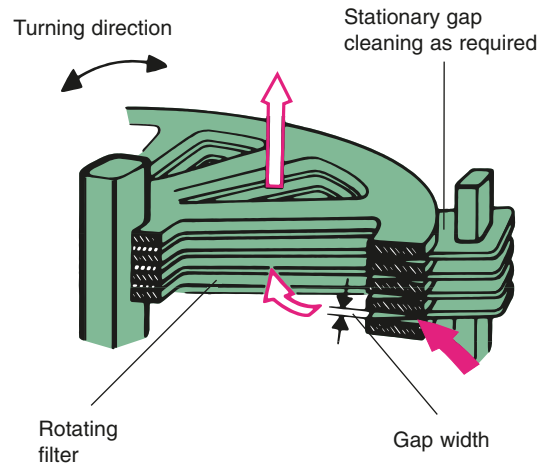
Gap-type filters

Different gap-type filter designs

Plate gap-type filters for gap widths ≥ 0.1 mm

The plate gap-type filter insert consists of ring-shaped steel discs piled up on a central pin. The gap width between the discs is determined by spacers between the discs. A stationary gap cleaner runs through each gap. As the liquid flows between the discs, dirt particles in the

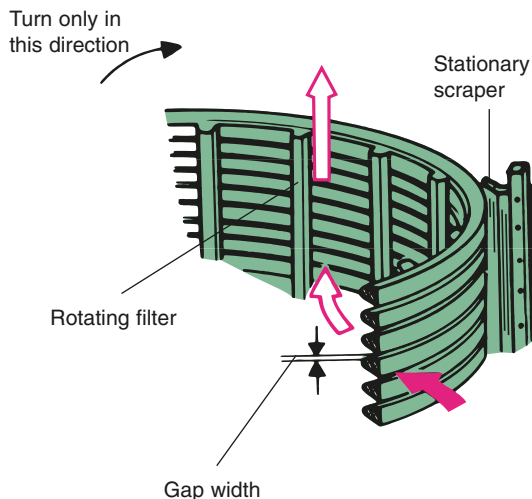
liquid are deposited on the surfaces of the gap. When the handle of the filter insert is turned the dirt particles gather on the row of gap cleaners and sink to the sludge collection chamber where the sludge is discharged by opening a ball valve.



Wire gap-type filters for gap widths ≥ 0.03 mm

The wire gap-type insert consists of a non-rusting, high tensile steel wire wound in a spiral around an aluminium frame. The exact position of the steel wire on the frame provides for equal gaps. As the liquid to be filtered flows through the insert dirt particles

are deposited in the gaps. When the handle of the filter insert is turned the dirt particles are scraped by a stationary cleaner and sink to the sludge collection chamber where the sludge is discharged by opening a ball valve.



Gap-type tube filters for gap widths ≥ 0.03 mm

The gap-type tube filter insert consists of a wire wound around longitudinal rods welded together at every crossing point. The longitudinal rods and wire are made of non-rusting, high tensile steel. The exact position of the steel wire on the longitudinal rods provides for equal gaps.

As the liquid to be filtered flows through the filter insert the dirt particles are deposited in the gaps. When the handle on the filter insert is turned, the dirt particles are removed by a stationary scraper and fall down into the sludge collection chamber. The sludge is discharged by opening a ball valve.

Plate gap-type filters

Operating pressure: 10/40 bar – Highly viscous liquids

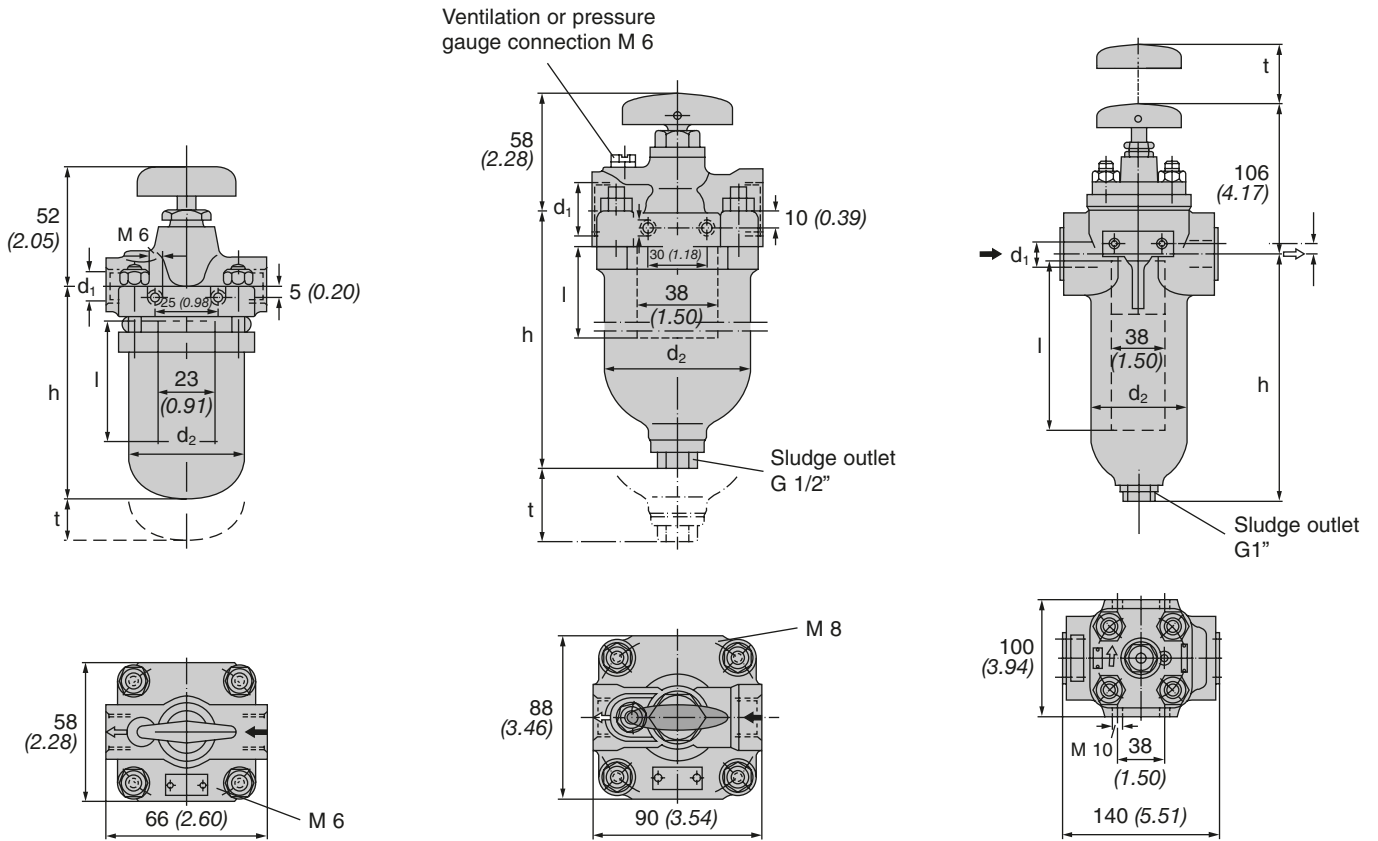


Fig. 1 Filter bowl removable from below

Fig. 2 Filter bowl removable from below

Fig. 3 Filter insert removable from above

Ref.	Part no.	Fig.	Nominal flow rate [l/h] [gph] with gap width		Dimensions in mm (Dimensions in inches)					Permissible operating pressure [bar]	Housing material	Weight approx. [kg]
			100 µm x = 3	200 µm x = 5	d ₁	d ₂	h	l	t			
1	51 204 6X 021	1	450 (118.89)	–	M 14x1.5	47 (1.85)	75 (2.95)	32 (1.26)	50 (1.97)	10	Spheroidal graphite cast iron/steel	1.0
2	51 207 6X 021	1	900 (237.78)	–	M 14x1.5	47 (1.85)	125 (4.92)	70 (2.76)	85 (3.35)	10	Spheroidal graphite cast iron/steel	1.0
3	51 305 6X 041	2	1400 (369.88)	3500 (924.70)	M 22x1.5	77 (3.03)	142 (5.59)	50 (1.97)	90 (3.54)	40	Spheroidal graphite cast iron/steel	3.0
4	51 305 6X 051	2	1400 (369.88)	3500 (924.70)	G 1/2"	77 (3.03)	142 (5.59)	50 (1.97)	90 (3.54)	40	Spheroidal graphite cast iron/steel	3.0
5	51 305 6X 061	2	1400 (369.88)	4000 (1056.80)	G 3/4"	77 (3.03)	142 (5.59)	50 (1.97)	90 (3.54)	40	Spheroidal graphite cast iron/steel	3.0
6	51 310 6X 041	2	2600 (686.92)	3500 (924.70)	M 22x1.5	77 (3.03)	192 (7.56)	95 (3.74)	140 (5.51)	40	Spheroidal graphite cast iron/steel	3.0
7	51 310 6X 051	2	2600 (686.92)	3500 (924.70)	G 1/2"	77 (3.03)	192 (7.56)	95 (3.74)	140 (5.51)	40	Spheroidal graphite cast iron/steel	3.0
8	51 310 6X 071	2	2600 (686.92)	4500 (1188.90)	G 3/4"	77 (3.03)	192 (7.56)	95 (3.74)	140 (5.51)	40	Spheroidal graphite cast iron/steel	3.0
9	51 310 7X 101	3	2600 (686.92)	5000 (1321)	G 1"	78 (3.07)	180 (7.09)	95 (3.74)	180 (7.09)	10	Spheroidal graphite cast iron	6.0
10	51 318 7X 101	3	5000 (1321)	5000 (1321)	G 1"	77 (3.03)	295 (11.61)	180 (7.09)	280 (11.02)	10	Spheroidal graphite cast iron	8.0

Plate gap-type filters

Operating pressure: 16/40 bar – Highly viscous liquids

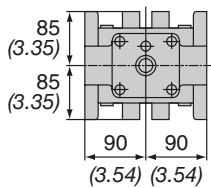
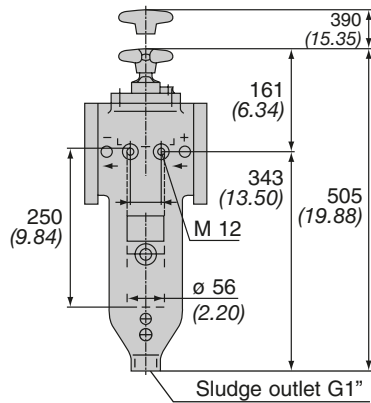


Fig. 1

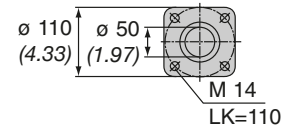
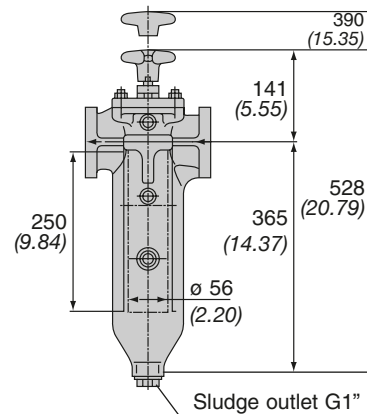


Fig. 2

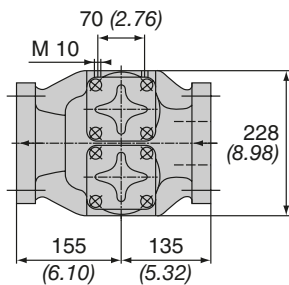
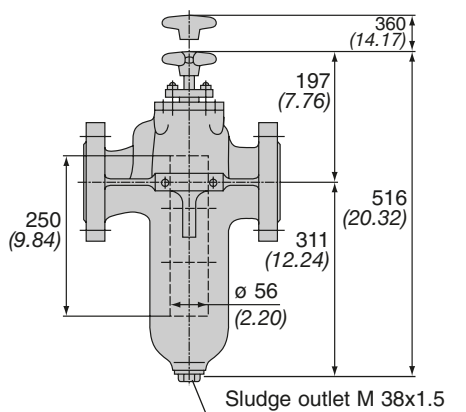


Fig. 3

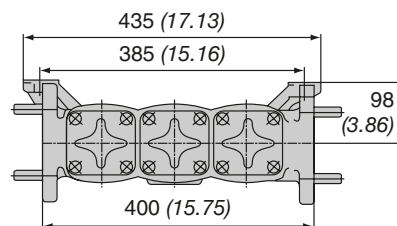
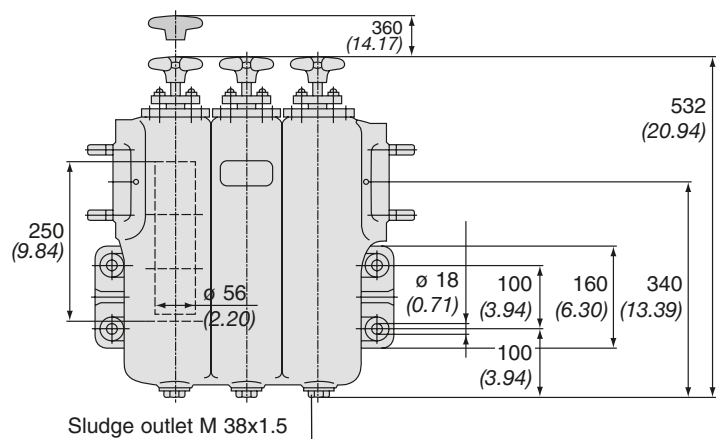


Fig. 4

Ref.	Part no.	Fig.	Nominal flow rate [l/h] [gph] with gap width		Connection flange		Permissible operating pressure [bar]	Housing material	Weight approx. [kg]
			100 µm x = 3	200 µm x = 5	DN	PN			
1	51 525 7X 784	1	12000 (3170.4)	15000 (3963)	50	40	40	Aluminium	10
2	51 525 7X 104	2	12000 (3170.4)	15000 (3963)	50	40	40	SG Iron	20
3	55 550 7X 251	3	24000 (6340.8)	30000 (7926)	65	40	16	SG Iron	50
4	55 575 7X 221	4	36000 (9511.2)	45000 (11889)	65	40	16	SG Iron	65

Wire gap-type filters

Operating pressure: 40 bar – Fuels and lubricants

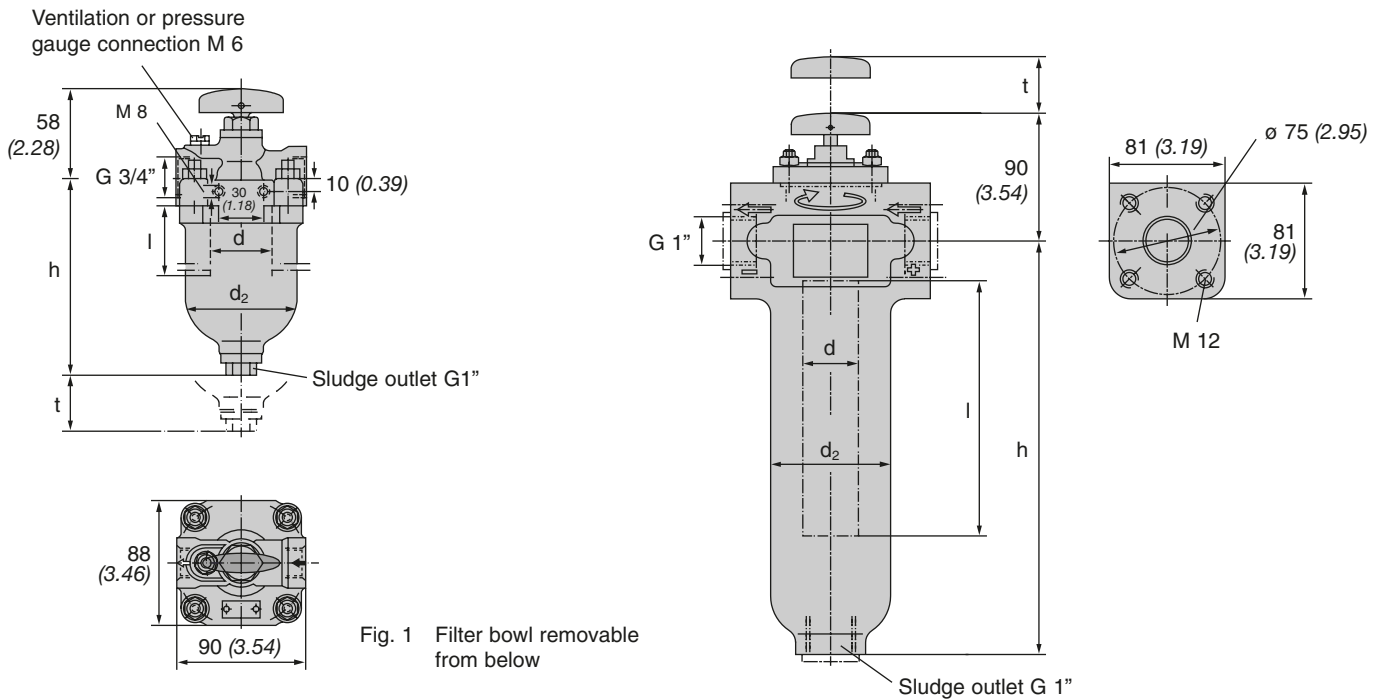


Fig. 1 Filter bowl removable from below

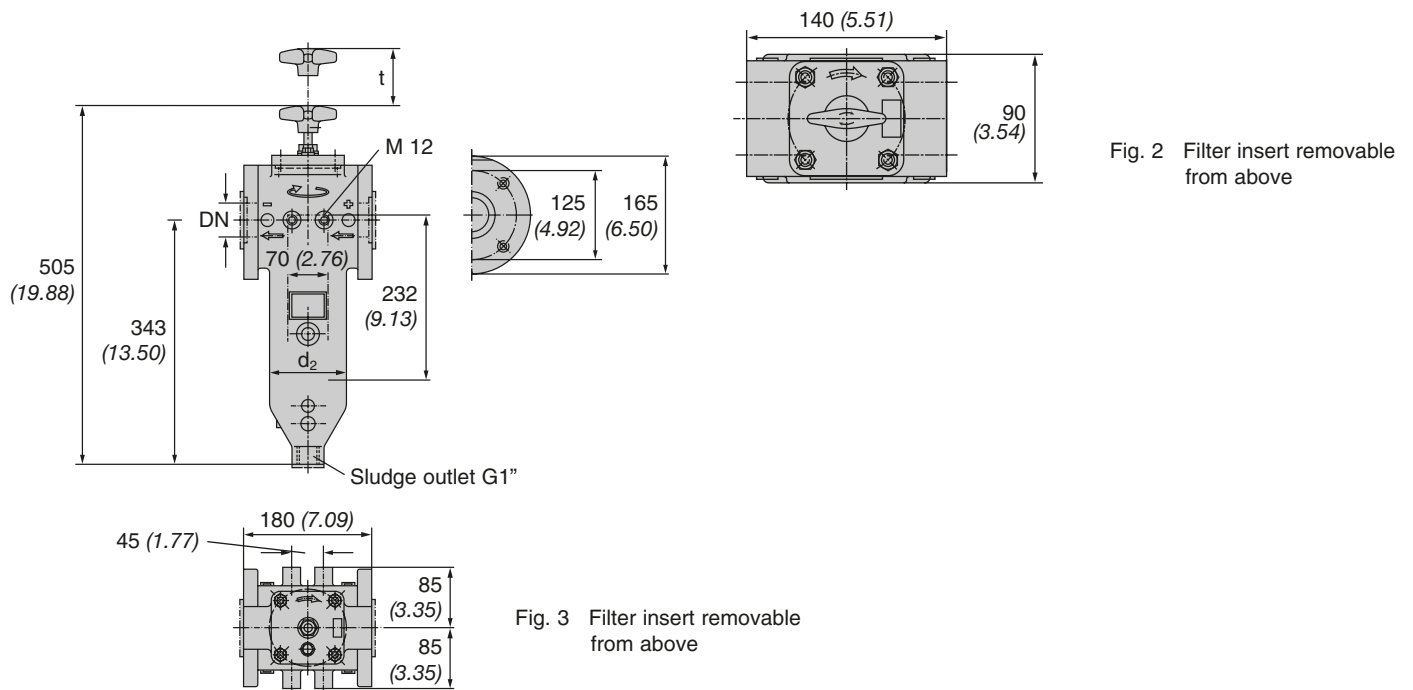


Fig. 2 Filter insert removable from above

Fig. 3 Filter insert removable from above

Ref.	Part no.	Fig.	Nominal flow rate [l/h] [gph] with gap width				Dimensions in mm (Dimensions in inches)					Permissible operating pressure [bar]	Housing material	Weight approx. [kg]
			30 µm x = 0	50 µm x = 1	100 µm x = 3	200 µm x = 5	d	d ₂	h	l	t			
1	53 410 6X 061	1	1100 (290.62)	2000 (528.40)	3000 (792.60)	3500 (924.70)	42 (1.65)	77 (3.03)	195 (7.68)	95 (3.74)	140 (5.51)	40	SG Iron	2.9
2	53 418 7X 101	2	2100 (554.82)	3900 (1030.38)	5000 (1321)	5000 (1321)	42 (1.65)	84 (3.31)	290 (11.42)	165 (6.50)	260 (10.24)	40	Aluminium alloy	4.2
3	53 524 7X 191	3	3400 (898.28)	6300 (1664.46)	13500 (3566.71)	15000 (3963)	56 (2.20)	108 (4.25)	343 (13.50)	232 (9.13)	360 (14.17)	40	Aluminium alloy	9.2

Gap-type tube filters

Operating pressure: 40 bar – Watery and/or aggressive liquids

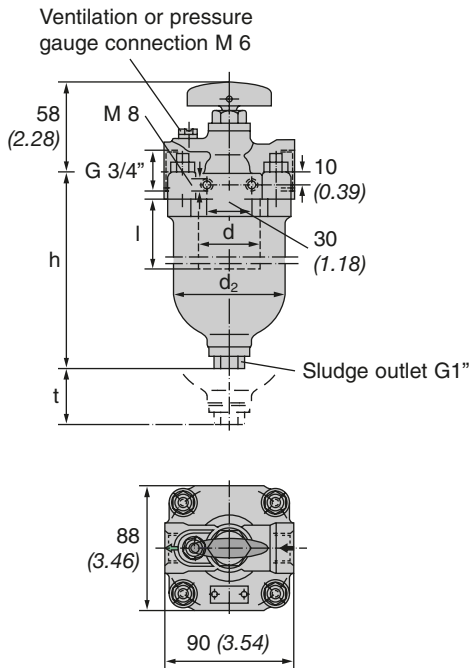


Fig. 1 Filter bowl removable from below

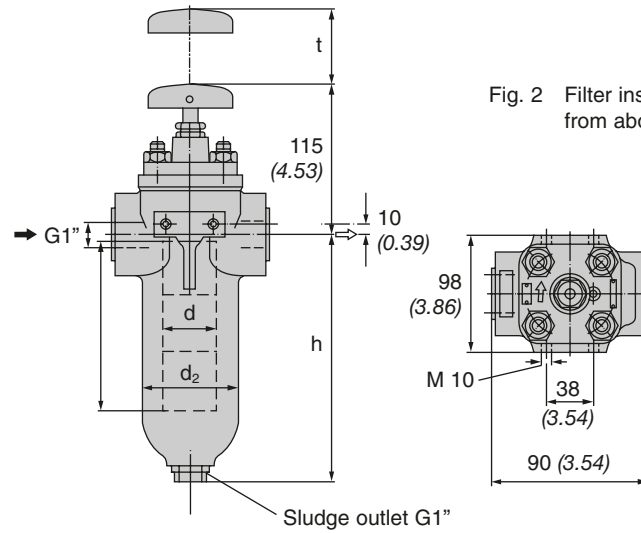


Fig. 2 Filter insert removable from above

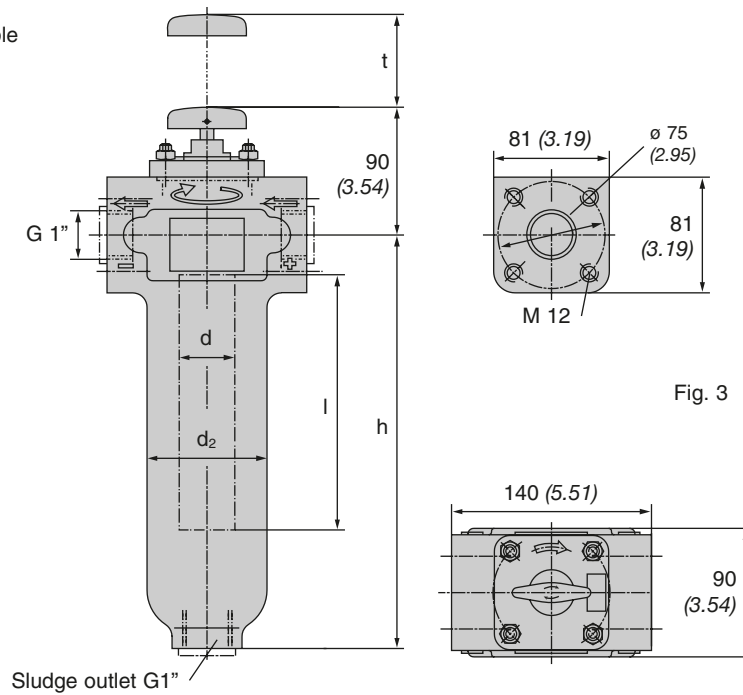
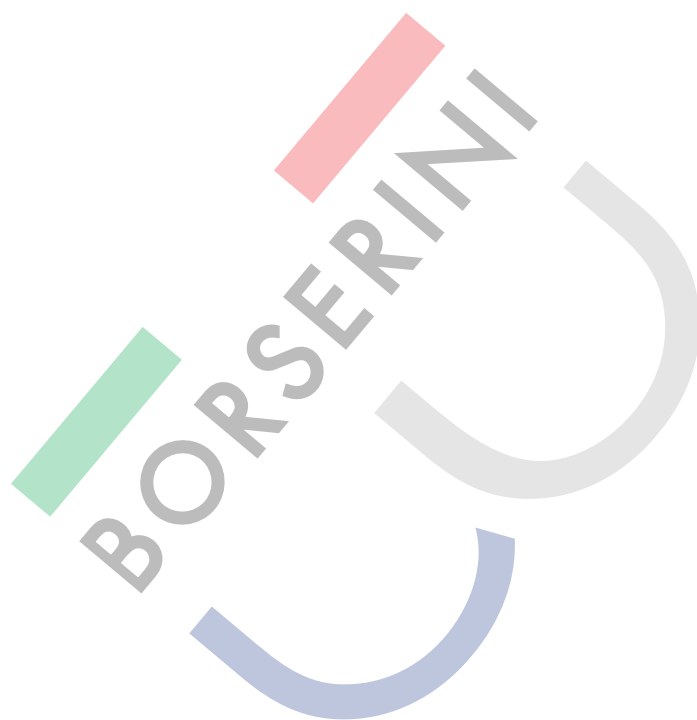


Fig. 3 Filter insert removable from above

	Part no.	Fig.	Nominal flow rate [l/h] [gph] with gap width			Dimensions in mm (Dimensions in inches)					Permissible operating pressure [bar]	Housing material	Weight approx. [kg]
			50 µm x = 1	100 µm x = 3	200 µm x = 5	d	d ₂	h	l	t			
1	54 310 6X 061	1	1100 (290.62)	2000 (528.40)	3000 (792.60)	38 (1.50)	77 (3.03)	194 (7.64)	100 (3.94)	140 (5.51)	40	SG Iron	3.5
2	54 310 7X 135	2	1100 (290.62)	2000 (528.40)	3000 (792.60)	38 (1.50)	84 (3.31)	161 (6.34)	100 (3.94)	200 (7.87)	40	CrNi Steel	7.0
3	54 310 7X 165	3	1100 (290.62)	2000 (528.40)	3000 (792.60)	38 (1.50)	84 (3.31)	180 (7.09)	100 (3.94)	200 (7.87)	40	Aluminium alloy	4.0
4	54 318 7X 104	3	1900 (501.98)	3500 (924.70)	5000 (1321)	38 (1.50)	84 (3.31)	380 (14.96)	289 (11.38)	280 (11.02)	40	Aluminium alloy	4.5



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