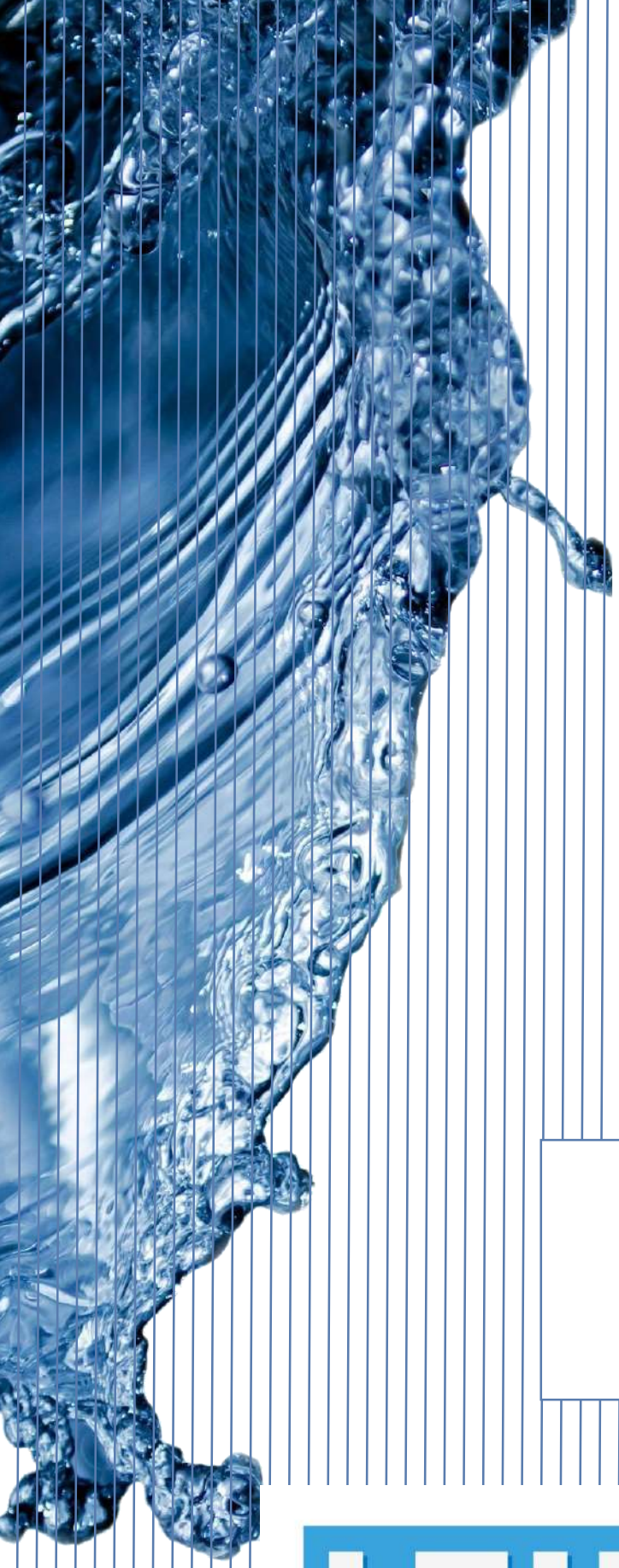


STAUFF
IN-LINE FILTERS
SRFL-D

LTH
HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL

E

Description

STAUFF In-Line Simplex Filters SRFL-S and Duplex Filters SRFL-D are designed for in-line hydraulic applications. With its compact construction and the easy maintain assembly the SRFL-S and SRFL-D Filters are suitable for flow rates up to 7000 l/min / 1850 US GPM.

The two housings of the Duplex Filter SRFL-D are connected with a special gate valve that is operated with a level or hand wheel. Therefore the filter may be serviced without shutting down the hydraulic system.

The STAUFF In-Line Filter SRFL-SW is designed for installation in water circulations. This filter can be used for cleaning of e.g. industrial water of descaling systems. The filter elements are designed as basket strainers, which keep the dirt during the element change.

Media Compatibility

- Mineral oils, lubrication oils and water, others on request

Options and Accessories

Valves (except REL Filter Elements)

- Bypass valve (integrated in the filter element)

Clogging Indicators

- On request with visual and electrical differential pressure indicator
- The SRFL-SW is also available with an visual-electrical differntial pressure indicator

Type SRFL-S

- Version: Simplex
- Operating pressure: max. 14 bar / 200 PSI
- Nominal flow rate: max. 7000 l/min / 1850 US GPM
- Materials: Filter housing: Carbon Steel, Stainless Steel (on request)
- Connections: ANSI, DIN or SAE flange (ISO 6162-1/2)

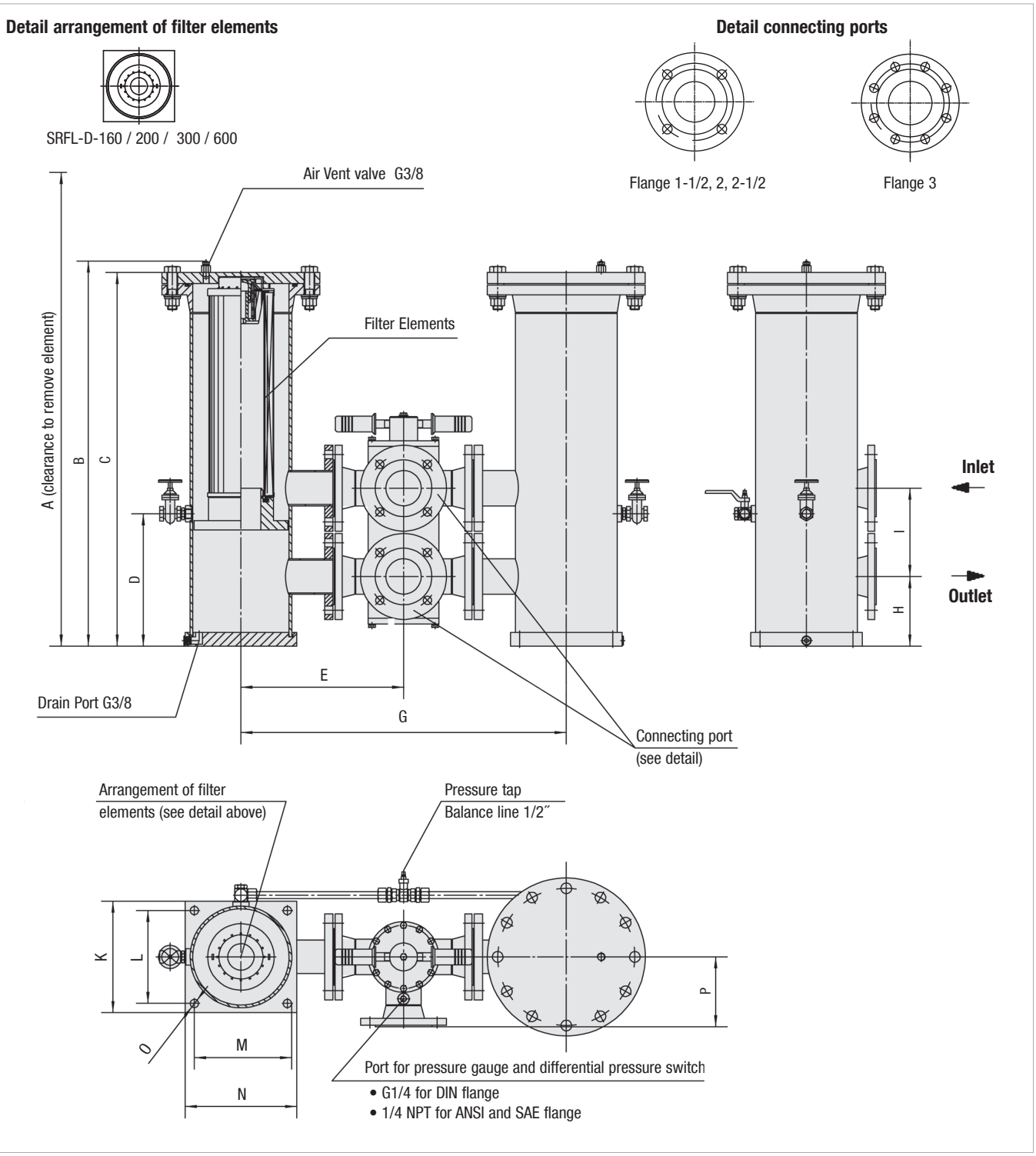
Type SRFL-SW

- Version: Simplex, suitable for water
Duplex on request
- Operating pressure: max. 16 bar / 232 PSI
- Nominal flow rate: max. 13330 l/min / 3521 US GPM
- Materials: Filter housing: Carbon Steel, Stainless Steel (on request)
- Connections: ANSI or DIN flange

Type SRFL-D

- Version: Duplex
- With switch control for maintenance of the system without stoppage
- Operating pressure: max. 14 bar / 200 PSI
- Nominal flow rate: max. 7000 l/min / 1850 US GPM
- Materials: Filter housing: Carbon Steel, Stainless Steel (on request)
- Connections: ANSI, DIN or SAE flange (ISO 6162-1/2)

In-Line Filters ▪ Type SRFL-D-160 / 200 / 300 / 600



In-Line Filters ▪ Type SRFL-D-160 / 200 / 300 / 600

Flange Connection	Filter Size SRFL-D			
	160	200	300	600
DIN	DN 40	DN 50	DN 65	DN 80
ANSI	1-1/2	2	2-1/2	3

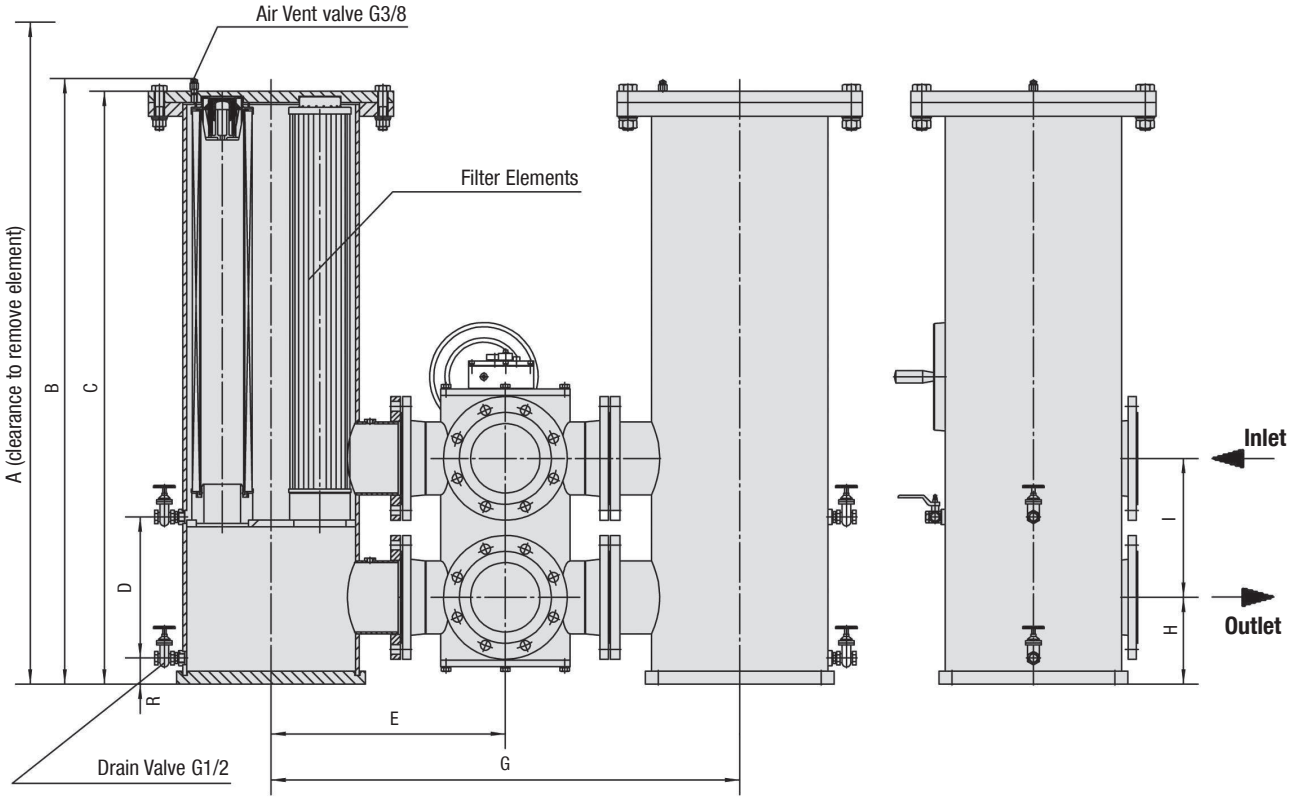
Dimensions (mm/in)		Filter Size SRFL-D			
		160	200	300	600
A		885,8	1045,8	1248,7	2126,7
		34.87	41.17	49.16	83.73
B		607,6	688,7	828,6	1267,6
		23.92	27.12	32.63	49.91
C		584	642	803,9	1242,9
		22.99	25.28	31.65	48.93
D		214	214	285	285
		8.43	8.43	11.22	11.22
E		260	300	350	375
		10.24	11.81	13.78	14.76
G		520	600	700	750
		20.47	23.62	27.56	29.53
H		130	140	150	160
		5.12	5.51	5.91	6.30
I		155	190	190	220
		6.10	7.48	7.48	8.66
K		150	150	240	240
		5.91	5.91	9.45	9.45
L		125	125	200	200
		4.92	4.92	7.87	7.87
M		125	125	200	200
		4.92	4.92	7.87	7.87
N		150	150	240	240
		5.91	5.91	9.45	9.45
O		11	11	18	18
		.43	.43	.71	.71
P		110	150	150	175
		4.33	5.91	5.91	6.89
Total Oil Capacity (l/gal)		6	7,1	22,2	37,1
		1.59	1.86	5.87	9.80
Weight (kg/lbs)		43	56,7	84	104
		95	125	185	230
Filter Elements	Designation	RE-160 ...	RE-200 ...	RE-300 ...	RE-600 ...
	Quantity	2 x 1	2 x 1	2 x 1	2 x 1

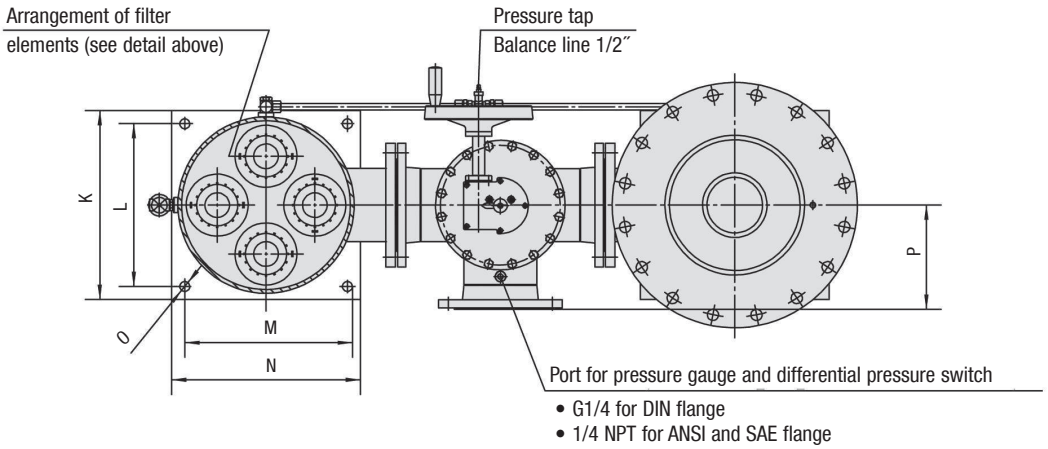
E

In-Line Filters ▪ Type SRFL-D-1200 / 1800 / 2400

Detail arrangement of filter elements

SRFL-D-1200 SRFL-D-1800 SRFL-D-2400





In-Line Filters ▪ Type SRFL-D-1200 / 1800 / 2400

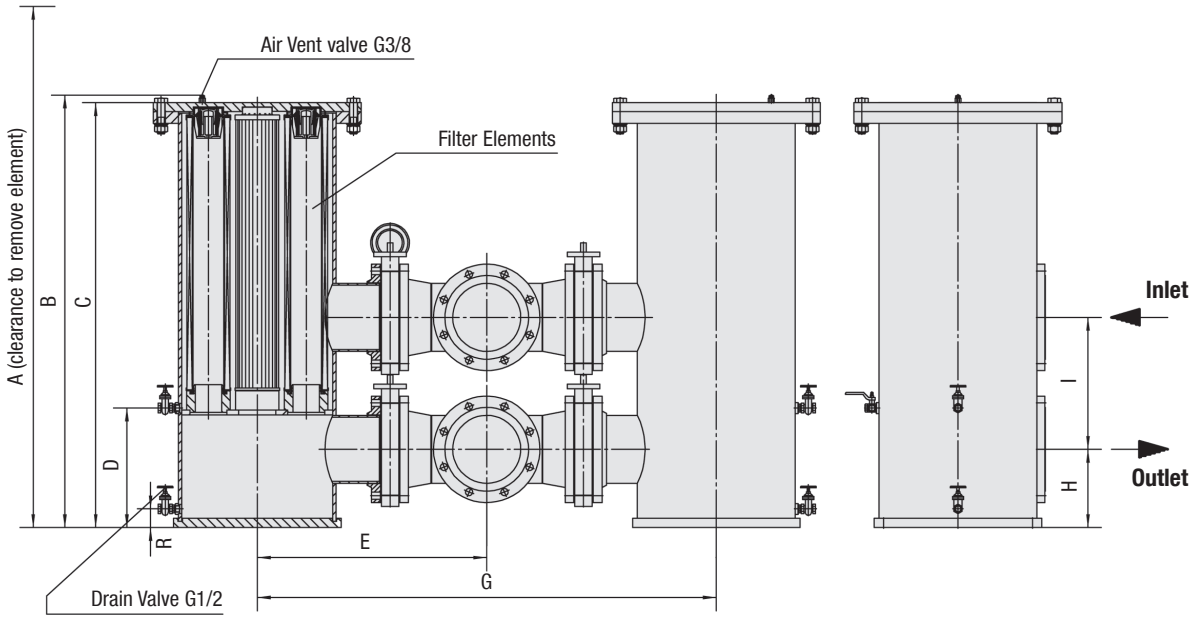
Flange Connection	Filter Size SRFL-D		
	1200	1800	2400
DIN	DN 100	DN 125	DN 150
ANSI	4	5	6

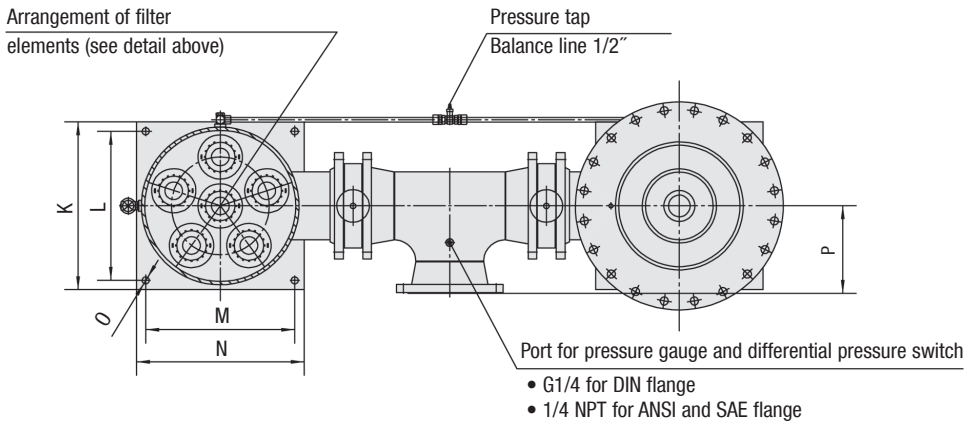
Dimensions (mm/in)		Filter Size SRFL-D		
		1200	1800	2400
A		2176,7	2176,7	2249,1
		85.70	85.70	88.55
B		1319,6	1323,6	1394,8
		51.96	52.11	54.92
C		1294,9	1294,9	1366,1
		50.98	50.98	53.78
D		275	275	325
		10.83	10.83	12.80
E		475	500	540
		18.70	19.69	21.26
G		950	1000	1080
		37.40	39.37	42.52
H		190	190	200
		7.48	7.48	7.87
I		250	280	320
		9.84	11.02	12.60
K		385	385	435
		15.16	15.16	17.13
L		325	325	375
		12.80	12.80	14.76
M		325	325	375
		12.80	12.80	14.76
N		385	385	435
		15.16	15.16	17.13
O		23	23	23
		.91	.91	.91
P		200	225	240
		7.87	8.86	9.45
R		60	60	60
		2.36	2.36	2.36
Total Oil Capacity (l/gal)		103	103	149
		27.20	27.20	39.30
Weight (kg/lbs)		215	233	263
		475	515	580
Filter Elements	Designation	RE-600 ...	RE-600 ...	RE-600 ...
	Quantity	2 x 2	2 x 3	2 x 4

In-Line Filters ▪ Type SRFL-D-3600

Detail arrangement of filter elements

SRFL-D-3600





In-Line Filters ▪ Type SRFL-D-3600

Flange Connection	Filter Size SRFL-D
	3600
DIN	DN 200
ANSI	8

Dimensions (mm/in)		Filter Size SRFL-D
		3600
A		2249,1
		88.55
B		1392,8
		54.84
C		1368,1
		53.86
D		325
		12.80
E		739
		29.11
G		1479
		58.22
H		252
		9.92
I		425
		16.73
K		540
		21.26
L		480
		18.90
M		480
		18.90
N		540
		21.26
O		23
		.91
P		281,4
		11.08
R		60
		2.36
Total Oil Capacity (l/gal)		233
		61.3
Weight (kg/lbs)		390
		860
Filter Elements	Designation	RE-600 ...
	Quantity	2 x 6

In-Line Filter Housings / Complete Filters ▪ Type SRFL-S / D

SRFL-D	-	160	-	G	-	10	-	B	-	A	-	O	-	W132	-	V	/	X
①		②		③		④		⑤		⑥		⑦		⑧		⑨		⑩

① Type

In-Line Simplex Housing	**SRFL-S**
In-Line Duplex Housing	**SRFL-D**

② Group

Flow	Size
900 l/min / 240 US GPM	**160**
900 l/min / 240 US GPM	**200**
1400 l/min / 370 US GPM	**300**
1400 l/min / 370 US GPM	**600**
4000 l/min / 1050 US GPM	**1200**
4000 l/min / 1050 US GPM	**1800**
6000 l/min / 1580 US GPM	**2400**
7000 l/min / 1850 US GPM	**3600**

③ Filter Material

Material	Max. Δp*collapse	Micron ratings available	Code
Without filter element	-	-	**O**
Inorg. glass fibre	25 bar / 363 PSI	3, 5, 10, 20	**G**
Stainless fibre	30 bar / 435 PSI		**A**
Filter paper	10 bar / 145 PSI	10, 20	**N**
Stainless mesh	30 bar / 435 PSI	25, 50, 100, 200	**S**

* Note: Collapse/burst resistance as per ISO 2941.
Other materials on request.

④ Micron Rating

3 µm	**03**
5 µm	**05**
10 µm	**10**
20 µm	**20**
25 µm	**25**
50 µm	**50**
100 µm	**100**
200 µm	**200**

Note: Other micron ratings on request.

⑤ Sealing Material

NBR (Buna®)	**B**
FKM (Viton®)	**V**

Note: Other sealing materials on request.

⑥ Connection Style

Connection Style	Group								Code
	160	200	300	600	1200	1800	2400	3600	
DIN Flange	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	**D**
ANSI Flange	1-1/2	2	2-1/2	3	4	5	6	8	**A**
SAE Flange	1-1/2	2	2-1/2	3	4	5	-	-	**S**

⑦ Connection Location

Opposite side*	**O**
Same side	**S**

* Note: Not for SRFL-D series

⑧ Housing Material

Carbon Steel	**W132**
Stainless Steel	**W4**

⑨ Clogging Indicator

Without Clogging Indicator	**O**
Differential Pressure Switch with Visual Gauge Indicator	**V**

Note: Other indicators on request.

⑩ Design Code

Only for information	**X**

Filter Elements ▪ Type RE

RE	-	160	-	G	-	10	-	B	/	X
①		②		③		④		⑤		⑥

① Type

Filter Element Series	**RE**

② Group

Designation	Filter Element Quantity		Size
	SRFL-S	SRFL-D	
RE-160	1x1	2x1	**160**
RE-200	1x1	2x1	**200**
RE-300	1x1	2x1	**300**
RE-600	1x1	2x1	**600**
RE-600	1x2	2x2	**1200**
RE-600	1x3	2x3	**1800**
RE-600	1x4	2x4	**2400**
RE-600	1x6	2x6	**3600**

③ Filter Material

Material	Max. Δp*collapse	Micron ratings available	Code
Inorg. glass fibre	25 bar / 363 PSI	3, 5, 10, 20	**G**
Stainless fibre	30 bar / 435 PSI		**A**
Filter paper	10 bar / 145 PSI	10, 20	**N**
Stainless mesh	30 bar / 435 PSI	25, 50, 100, 200	**S**

* Note: Collapse/burst resistance as per ISO 2941.
Other materials on request.

④ Micron Rating

3 µm	**03**
5 µm	**05**
10 µm	**10**
20 µm	**20**
25 µm	**25**
50 µm	**50**
100 µm	**100**
200 µm	**200**

Note: Other micron ratings on request.

⑤ Sealing Material

NBR (Buna®)	**B**
FKM (Viton®)	**V**

Note: Other sealing materials on request

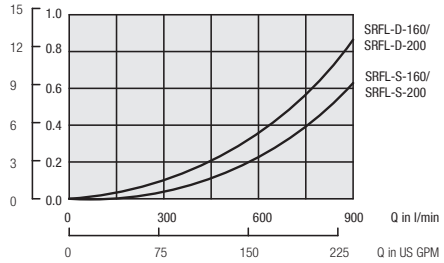
⑥ Design Code

Only for information	**X**

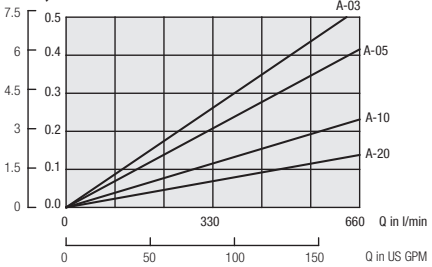
In-Line Filters ▪ Type SRFL-S / D Flow Characteristics

The following characteristics are valid for mineral oils with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s (30cSt). The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. The housing pressure drop is directly proportional to the oil density. Contact STAUFF for details.

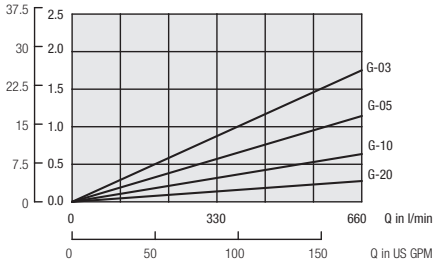
Housings SRFL-S/D-160/200



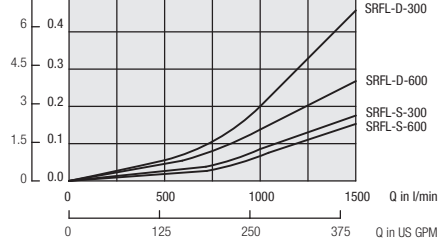
Filter Elements RE-160-A



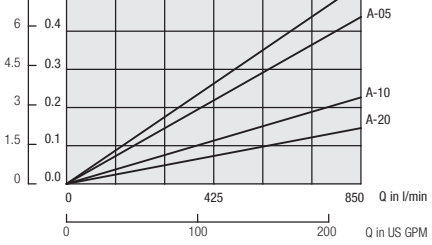
Filter Elements RE-160-G



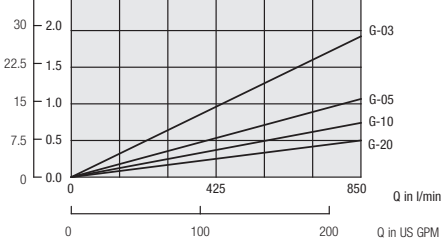
Housings SRFL-S/D-300/600



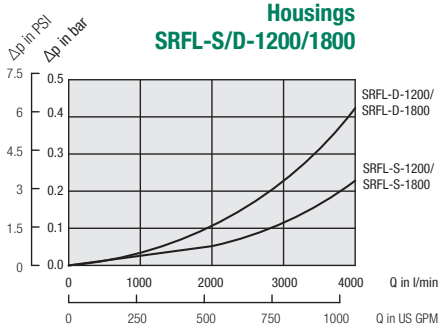
Filter Elements RE-200-A



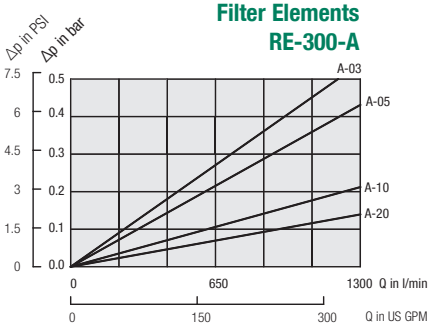
Filter Elements RE-200-G



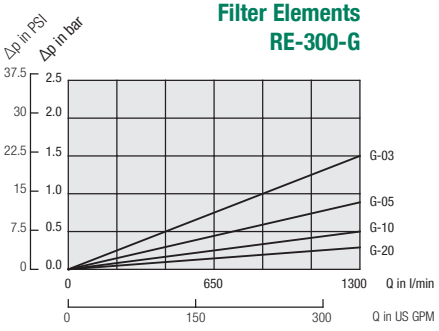
Housings SRFL-S/D-1200/1800



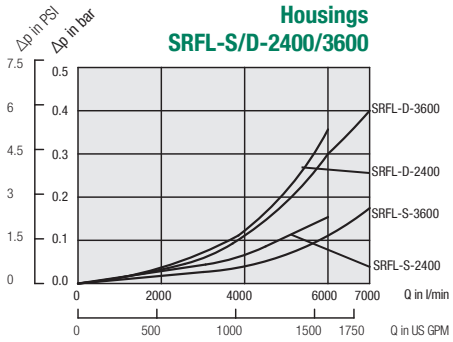
Filter Elements RE-300-A



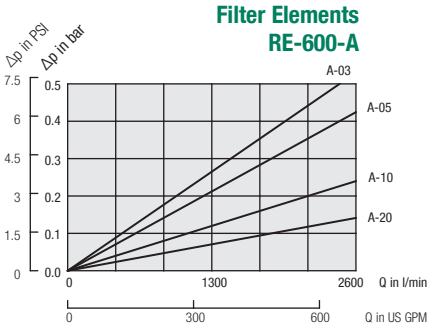
Filter Elements RE-300-G



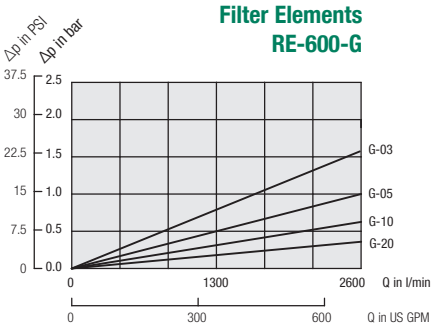
Housings SRFL-S/D-2400/3600



Filter Elements RE-600-A



Filter Elements RE-600-G



Pressure drop of housing including filter elements

General: $\Delta p_{total} = \Delta p_{hous} + \Delta p_{Elem}$ x (operating viscosity [mm²/s] / 30mm²/s)

with Δp_{hous} = See diagrams above

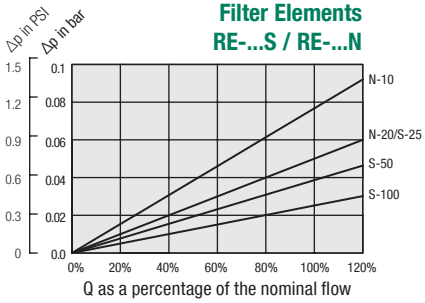
Δp_{Elem} = pressure drop of element at a flow Q/n (at a viscosity of 30 mm²/s and
n= numbers of elements as listed in ordering code filter elements see page 140 and diagrams above.)

Example

Data given Q_{max} = 6000 l/min / 1585 US GPM, SRFL-D-2400 with filter elements RE-600-S-25-B;
operating viscosity = 100 mm²/s
Q_{max} = 6000 l/min; n=4 elements (SRFL-D-2400) Q/n=1500 l/min / 396 gal
Δp_{hous} = 0,35 bar / 5.07 PSI, Δp_{Elem} =0,03 bar / 0.44 PSI

Pressure drop: Δp_{total} = 0,35 bar + 0,03 bar x (100 mm²/s / 30mm²/s)
= 0,45 bar / 6.53 PSI

Filter Elements RE-...S / RE-...N



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