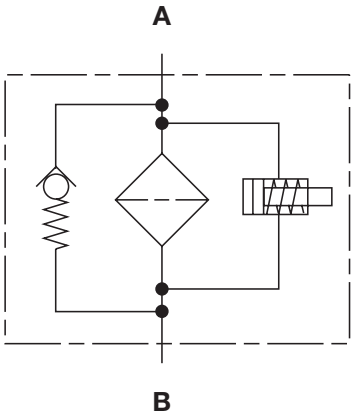
RFL Welded Series

Inline Filters

230 psi • up to 3900 gpm



Hydraulic Symbol



Features

- Models 1300 to 15000 are made of rolled steel housings with bolt-on steel lids; Stainless steel models are available.
- ANSI flange connections for each filter size provide maximum connection flexibility eliminating additional adapters and intermediate flanges.
- Inlet and outlet connections are located on opposite sides of the housings.
- Clogging indicators have no external dynamic seal. High reliability is achieved and magnetic actuation eliminates a leak point.

Notes: This filter is configured with an …..R…. type (return/low pressure) element, so if the filter requires a bypass, the bypass is located in the closed end cap of the cartridge element.

Most states and local jurisdictions in the United States require pressure vessels to be ASME stamped. It is the responsibility of the end customer to research and fully understand the ASME code requirements of the jurisdiction this filter will ultimately be installed in, and to fully communicate these requirements to HYDAC.

Applications


Gearboxes


Industrial


Power Generation


Pulp & Paper


Shipbuilding


Steel / Heavy Industry

Technical Specifications

Mounting Method	Floor mounted legs
Port Connection	**Typical Connections**
1300/1320	4” ANSI 150# Flange
2500/2520	6” ANSI 150# Flange
4000/4020	8” ANSI 150# Flange
5200 - 7820	10” ANSI 150# Flange
15000/15020	12” ANSI 150# Flange
Flow Direction	Inlet & Outlet: Side
Construction Materials	
Housing, Lid	Steel
Note: Please contact HYDAC for available stainless steel models.	
Flow Capacity	
1300/1320	350 gpm (1300 lpm)
2500/2520	650 gpm (2500 lpm)
4000/4020	1050 gpm (4000 lpm)
5200/5220	1400 gpm (5200 lpm)
6500/6520	1700 gpm (6500 lpm)
7800/7820	2050 gpm (7800 lpm)
15000/15020	4000 gpm (15000 lpm)
Housing Pressure Rating	
Max. Allowable Working Pressure	150 psi (10 bar) *(standard)* 232 psi (16 bar) *(optional)*
Fatigue Pressure	Contact HYDAC
Burst Pressure	Contact HYDAC
Element Collapse Pressure Rating	
SN, W/HC	290 psid (20 bar)
ECON2, BN4AM, AM, P/HC	145 psid (10 bar)
Fluid Temperature Range	14°F to 212°F (-10°C to 100°C)
Consult HYDAC for applications below 14°F (-10°C)	
Fluid Compatibility	
Compatible with all hydrocarbon based, synthetic, water glycol, oil/water emulsion, and high water based fluids when the appropriate seals are selected.	
Indicator Trip Pressure	
ΔP = 29 psid (2 bar) -10% *(standard)* ΔP = 72 psid (5 bar) -10% *(optional)*	
Bypass Valve Cracking Pressure	
ΔP = 43 psid (3 bar) +10% *(standard)* ΔP = 87 psid (6 bar) +10% *(optional)*	

PN#02081318 / 04.26 / FIL1907-2109

Model Code

RFL SN 1300 C T 10 D 1 . X / ZU 150 V DH-L110

Filter Type

Element Media
- SN = Sustainmicron
- BN/AM = Betamicron®/Aquamicron®
- ECON2 = ECOmicron®
- W/HC = Wire Mesh
- XSX = Stat-X®
- AM = Aquamicron®
- P/HC = Polyester

Size
1300/ 1320/ 2500/ 2520/ 4000/ 4020/ 5200/ 5220/ 6500/ 6520/ 7800/ 7820/ 15000/ 15020

Operating Pressure
- B = 150 psi (10 bar)
- C = 232 psi (16 bar)

Type of Connection

ANSI Flange Ports
- 3 = 2" ANSI Flange *(sz. 1300)*
- 4 = 3" ANSI Flange *(sz. 1300 - 2520)*
- 5 = 4" ANSI Flange *(sz. 1300 - 7820)*
- 7 = 6" ANSI Flange *(sz. 2500 - 7820)*
- 8 = 8" ANSI Flange *(sz. 4000 - 15020)*
- 9 = 10" ANSI Flange *(sz. 5200 - 15020)*
- 10 = 12" ANSI Flange *(sz. 15000 - 15020)*

DIN DN Ports
- L = DIN DN 50 2" Flange *(sz. 1300)*
- Q = DIN DN 80 3" Flange *(sz. 1300 - 2520)*
- R = DIN DN 100 4" Flange *(sz. 1300 - 7820)*
- U = DIN DN 125 5" Flange *(sz. 1320)*
- V = DIN DN 150 6" Flange *(sz. 2500 - 7820)*
- W = DIN DN 200 8" Flange *(sz. 4000 - 15020)*
- X = DIN DN 250 10" Flange *(sz. 5200 - 15020)*
- Y = DIN DN 300 12" Flange *(sz. 15000 - 15020)*

Filtration Rating *(microns)*
- 3, 5, 10, 20 = SN
- 40 = AM
- 3, 5, 10, 20 = XSX
- 25, 50, 100, 200 = W/HC
- 3, 10 = BN4AM
- 10, 20 = P/HC
- 3, 5, 10, 20 = ECON2

Type of ΔP Clogging Indicator
A, B, BM, C, D *(Others available upon request, see Clogging Indicators section.)*

Type Code
1

Modification Number *(latest version always supplied)*

Country of Installation
- (omit) = standard *(non coded)*
- ZU = ASME Coded with "ASME" Stamp

Flange
- (omit) = DIN Flange Connection to DIN 2501/1
- 150 = 150 lbs ANSI Flange

Seals
- (omit) = Nitrile rubber (NBR) *(standard)*
- V = Fluorocarbon elastomer (FKM)

Bypass Valve
- (omit) = 43 psid (3 bar) *(standard)*
- B1 = 14.5 psid (1 bar) *(lubrication or coolant applications)*
- B6 = 87 psid (6 bar) *(return line extended life)*
- KB = No Bypass *(flushing system)*

not available with ECON2

Supplementary Details
- (omit) = Cover Lifting Device *(Handle only)*
- DH = Cover Lifting Device *(Davit lifting mechanism for sizes 4000 and larger, style may vary)*
- W = Indicator with brass piston (for water based fluids)
- SO263 = Modification of elements for Skydrol or HYJET phosphate ester fluids
- L24, L48, L110, L220 = Lamp for D-type clogging indicator *(LXX, XX = voltage)*
- cRUus = Electrical indicator with underwriter's approval
- SFREE = Element specially designed to minimize electrostatic charge generation
- SO376 = Modification of ON and W/HC elements for HFA, HFB, HFC, and HFD flame retardant liquids

Replacement Element Model Code

1300 R 010 SN / V B6

Size
0850, 1300, 1700, 2600

Filtration Rating *(micron)*
- 3, 5, 10, 20 = SN
- 3, 5, 10, 20 = XSX
- 3, 5, 10, 20 = ECON2
- 25, 50, 100, 200 = W/HC
- 3, 10 = BN4AM
- 40 = AM
- 10, 20 = P/HC

Element Media
SN, XSX, BN4AM, ECON2, AM, W/HC, P/HC

Seals
- (omit) = Nitrile rubber (NBR) *(standard)*
- V = Fluorocarbon elastomer (FKM)

Bypass Valve
- (omit) = 43 psid (3 bar) *(standard)*
- B1 = 14.5 psid (1 bar)
- B6 = 87 psid (6 bar)
- KB = No Bypass

Supplementary Details
- W = *(same as above)*
- SO263 = *(same as above)*
- SFREE = *(same as above)*
- SO376 = *(same as above)*

Clogging Indicator Model Code

VM 2 D . X / V

Indicator Prefix
- VM = G 1/2 3000 psi

Trip Pressure
- 2 = 29 psid (2 bar) *(standard)*
- 5 = 72 psid (5 bar) *(optional)*

Type of Indicator
- A = No indicator, plugged port
- B = Pop-up indicator *(auto reset)*
- BM = Pop-up indicator *(manual reset)*
- C = electric switch - SPDT
- D = electric switch & LED light – SPDT

Modification Number

Supplementary Details

Seals
- (omit) = Nitrile (NBR) *(standard)*
- V = Fluorocarbon elastomer (FKM)

Light Voltage *(D type indicators only)*
- L24 = 24V
- L110 = 110V

Thermal Lockout *(VM, VD types C, D, J, and J4 only)*
T100 = Lockout below 100°F

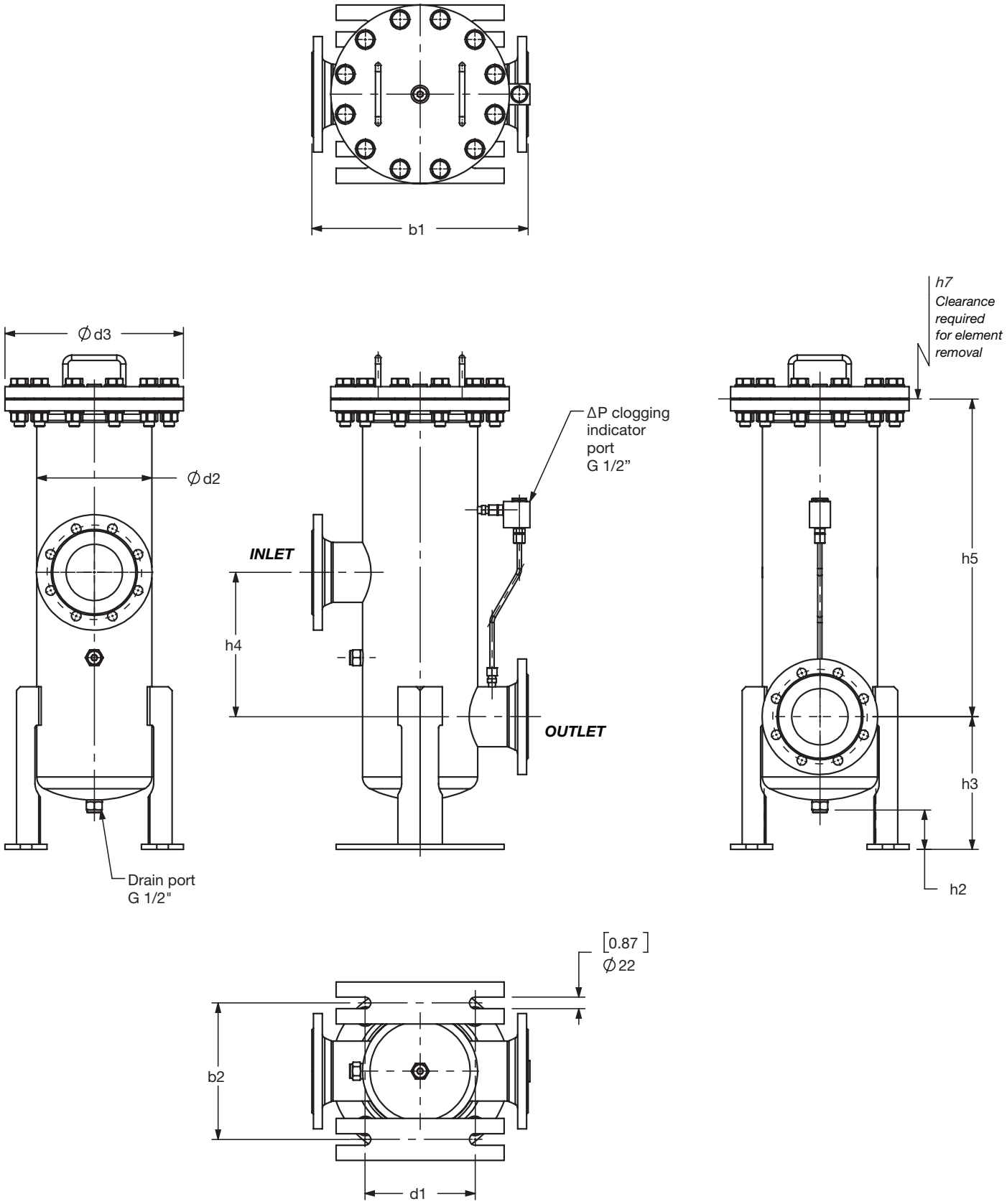
Underwriters Approval *(VM, VD types C, D, J, and J4 only)*
cRUus = Electrical indicator with underwriter's approval

(For additional details and options, see Clogging Indicators section.)

Model Codes Containing RED are non-stock items — Minimum quantities may apply – Contact HYDAC for information and availability

LOW PRESSURE FILTERS

Dimensions
RFL 1300 - 1320



Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print.

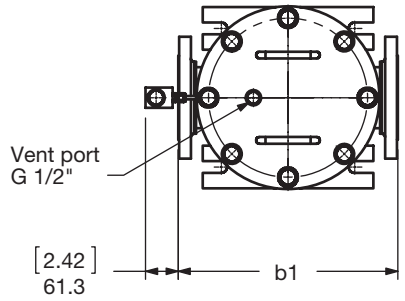
Dimensions
RFL 1300 - 1320

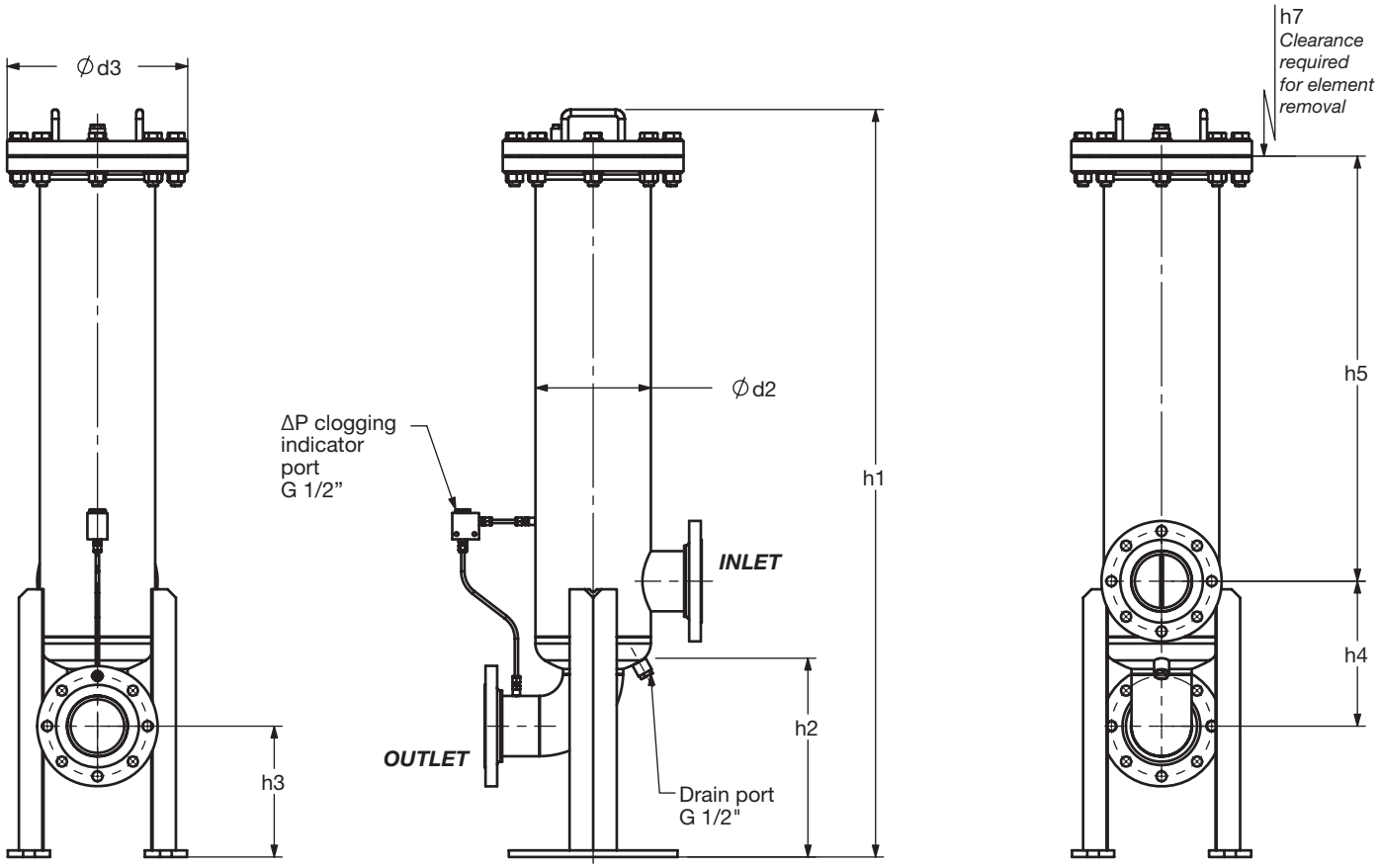
Size	Flange Port	b1	b2	d1	d2	d3	h1	h2	h3	h4	h5	h7	Wt. (lbs)	Use Bolt
RFL 1300	2” ANSI 150 lb RF”	[16.22] 412	[10.24] 260	[9.84] 250	[8.63] 219.1	[13.39] 340	[37] 942 [54.4] 1382	[4.33] 110	[10.47] 266	[9.45] 240	[13.84] 354 [31.26] 794	[19.69] 500 [37.01 940	141/172	5/8”-11 HEAVY HEX
	DIN DN 50	[16.22] 412	[10.24] 260	[9.84] 250”	[8.63] 219.1	[13.39] 340	[37] 942 [54.4] 1382	[4.33] 110	[10.98] 279	[8.94] 227	[13.84] 354 [31.26] 794	[19.69] 500 [37.01] 940”	141/172	M12
RFL 1300/1320	3” ANSI 150 lb RF	[16.22] 412	[10.24] 260	[9.84] 250	[8.63] 219.1	[13.39] 340	[37] 942 [54.4] 1382	[4.33] 110	[10.47] 266	[9.45] 240	[13.84] 354 [31.26] 794	[19.69] 500 [37.01] 94	141/179	5/8”-11 HEAVY HEX
	DIN DN 80	[16.22] 412	[10.24] 260	[9.84] 250	[8.63] 219.1	[13.39] 340	[37] 942 [54.4] 1382	[4.33] 110	[10.47] 266	[9.45] 240	[13.84] 354 [31.26] 794	[19.69] 500 [37.01] 940”	141/179	M16/ M16
	4” ANSI 150 lb RF	[16.22] 412	[10.24] 260	[9.84] 250	[8.63] 219.1	[13.39] 340	[37] 942 [54.4] 1382	[2.95] 75	[9.96] 253	[10.83 275”	[13.84] 354 [31.26] 794	[19.69] 500 [37.01] 940”	64/179	5/8”-11 HEAVY HEX
	DIN DN 100	[16.22] 412	[10.24] 260	[9.84] 250	[8.63] 219.1	[13.39] 340	[37] 942 [54.4] 1382”	[2.95] 75	[9.96] 253	[10.83] 275	[13.84] 354 [31.26] 794	[19.69] 500 [37.01] 940	64/179	M16/ M20
RFL 1320	DIN DN 125	[18.90] 480	[10.24 260	[9.84] 250	[8.63] 219.1	[13.39] 340	[54.4] 1382	[2.75] 70	[9.96] 253	[13.78] 350	[29.82] 732	[37.01] 940	192	M16

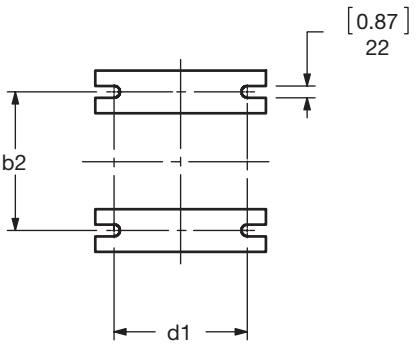
Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print..

LOW PRESSURE FILTERS

Dimensions
RFL 2500 - 2520







Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print.

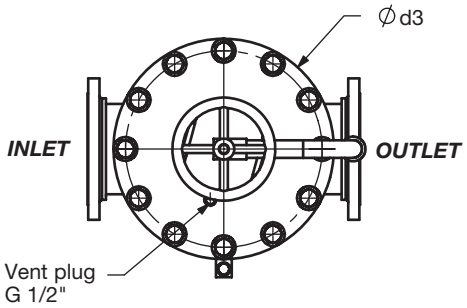
Dimensions
RFL 2500 - 2520

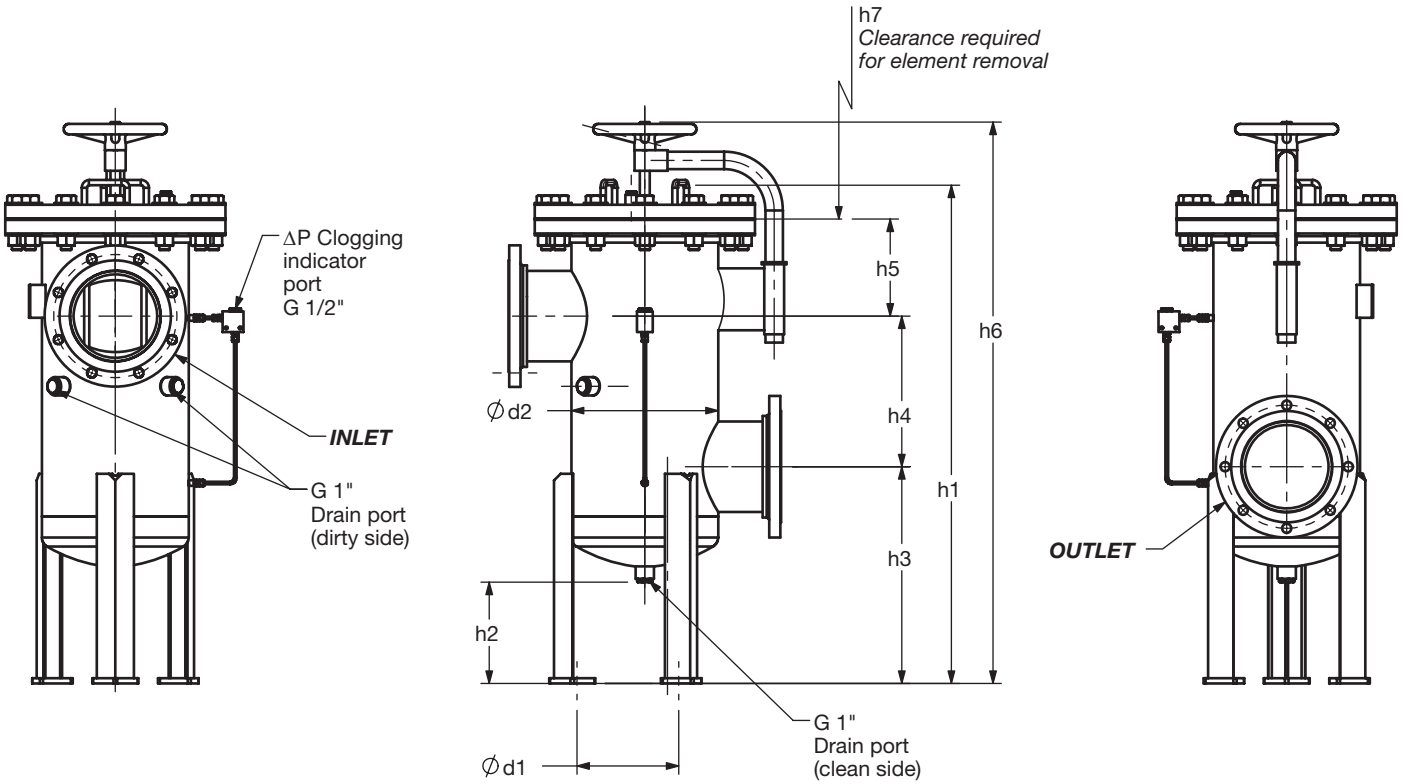
Size	Flange Port	b1	b2	d1	d2	d3	h1	h2	h3	h4	h5	h7	Wt. (lbs)	Use Bolt
RFL 2500/2520	3” ANSI 150 lb RF	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[38.98] 990 [54.33] 1380	[8.66] 220	[15.28] 388	[16.14 410	[4.72] 120 [20.08] 510	[16.54] 420 [31.89] 810	160/192	5/8”-11 UNC HEAVY HEX
	DIN DN 80	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[38.98] 990 [54.33] 1380	[8.66] 220	[15.28] 388	[16.14] 410	[4.72] 120 [20.08] 510	[16.54] 420 [31.89] 810	160/192	M16X2
	4” ANSI 150 lb RF	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[41.34] 1050 [56.69] 1440	[8.66] 220	[17.24] 438	[11.97] 304	[9.29] 236 [24.65] 626	[16.54] 420 [31.89] 810	167/199	5/8”-11 UNC HEAVY HEX
	DIN DN 100	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[41.34] 1050 [56.69] 1440	[8.66] 220	[17.24] 438	[11.97] 304	[9.29] 236 [24.65] 626	[16.54] 420 [31.89] 810	167/199	M16X2
	DIN DN 125	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[41.34] 1050 [56.69] 1440	[8.66] 220	[17.24] 438	[14.96] 380	[6.30] 160 [21.65] 550	[16.54] 420 [31.89] 810	176/208	M16X2
	6” ANSI 150 lb RF	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[41.34] 1050 [56.69] 1440	[8.66] 220	[17.24] 438	[14.37] 365	[6.89] 175 [22.24] 565	[16.54] 420 [31.89] 810	185/217	3/4”-10 UNC HEAVY HEX
	DIN DN 150	[18.35] 466	[12.28] 312	[9.84] 250	[10.50] 273	[14.17] 360	[41.34] 1050 [56.69] 1440	[8.66] 220	[17.24] 438	[14.37] 365	[6.89] 175 [22.24] 565	[16.54] 420 [31.89] 810	185/217	M20X2.5

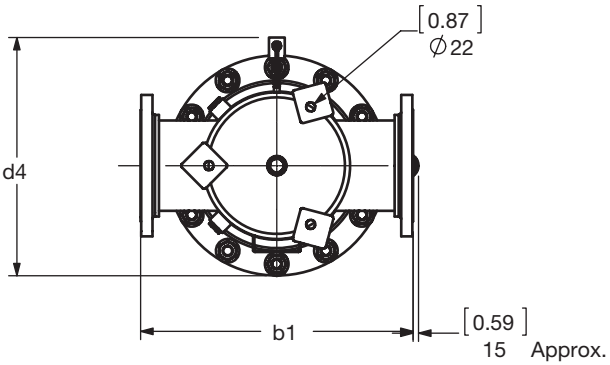
Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print..

LOW PRESSURE FILTERS

Dimensions
RFL 4000 - 15020







Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print.

Dimensions
RFL 4000 - 15020

Size	Flange Port	b1	d1	d2	d3	d4	h1	h2	h3	h4	h5	h6	h7	Wt. (lbs.)	Use Bolt
RFL 4000/4020	DIN DN 100	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.40] 543	[42.48] 1079 [57.83] 1469	[10.47] 266	[18.7] 475	[11.97] 304	[8.70] 221 [26.02] 661	[48.03] 1220 [65.35] 1660	[16.54] 420 [31.89] 810	267 /323	M16X2
	4” ANSI 150 LB RF	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.37] 543	[42.48] 1079 [57.83] 1469	[10.47] 266	[18.7] 475	[11.97] 304	[8.70] 221 [26.02] 661	[48.03] 1220 [65.35] 1660	[16.54] 420 [31.89] 810	267 /323	5/8”-11 UNC HEAVY HEX
	DIN DN 125	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.37] 543	[46.02] 1169 [57.44] 1459	[10.47] 266	[20.67] 525	[14.96] 380	[7.28] 185 [22.64] 575	[51.57] 1310 [66.93] 1700	[16.54] 420 [31.89] 810	281 /337	M16X2
	6” ANSI 150 LB RF	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.37] 543	[46.02] 1169 [61.38] 1559	[10.47] 266	[20.67] 525	[14.96] 380	[7.87] 200 [23.23] 590	[52.17] 1325 [67.52] 1715	[16.54] 420 [31.89] 810	294 /350	3/4”-10 UNC HEAVY HEX
	DIN DN 150	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.37] 543	[46.02] 1169 [61.38] 1559	[10.47] 266	[20.67] 525	[14.96] 380	[7.87] 200 [23.23] 590	[52.17] 1325 [67.52] 1715	[16.54] 420 [31.89] 810	294 /350	M20X2.5
	8” ANSI 150 LB RF	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.37] 543	[47.4] 1204 [62.76] 1594	[10.47] 266	[20.67] 525	[14.37] 365	[9.25] 235 [24.61] 625	[52.95] 1345 [68.31] 1735	[16.54] 420 [31.89] 810	309 /365	3/4”-10 UNC HEAVY HEX
	DIN DN 200	[23.62] 600	[12.99] 330	[14.00] 355.6	[18.11] 460	[21.37] 543	[47.4] 1204 [62.76] 1594	[10.47] 266	[20.67] 525	[14.37] 365	[9.25] 235 [24.61] 625	[52.95] 1345 [68.31] 1735	[16.54] 420 [31.89] 810	309 /365	M20X2.5
RFL 5200/5220	DIN DN 100	[23.62] 600	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[45.04] 1144 [62.36] 1584	[9.61] 244	[18.31] 465	[11.97] 304	[11.69] 297 [29.02] 737	[50.63] 1286 [67.95] 1726	[19.69] 500 [37.01] 940	353 /450	M16X2
	4” ANSI 150 LB RF	[23.62] 600	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[45.04] 1144 [62.36] 1584	[9.61] 244	[18.31] 465	[11.97] 304	[11.69] 297 [29.02] 737	[50.63] 1286 [67.95] 1726	[19.69] 500 [37.01] 940	353 /450	5/8”-11 UNC HEAVY HEX
	DIN DN 125	[23.62] 600	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[49.45] 1256 [66.77] 1696	[9.61] 244	[20.67] 525	[14.96] 380	[10.67] 271 [27.99] 711	[54.96] 1396 [72.28] 1836	[19.69] 500 [37.01] 940	375 /472	M16X2
	DIN DN 150	[23.62] 600	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[49.45] 1256 [66.77] 1696	[9.61] 244	[20.67] 525	[14.37] 365	[11.26] 286 [28.58] 726	[54.96] 1396 [72.28] 1836	[19.69] 500 [37.01] 940	386 /483	M20X2.5
	6” ANSI 150 LB RF	[23.62] 600	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[49.45] 1256 [66.77] 1696	[9.61] 244	[20.67] 525	[14.37] 365	[11.26] 286 [28.58] 726	[54.96] 1396 [72.28] 1836	[19.69] 500 [37.01] 940	386 /483	3/4”-10 UNC HEAVY HEX
	DIN DN 200	(25.20) 640	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[49.45] 1256 [66.77] 1696	[9.61] 244	[20.67] 525	[14.37] 365	[11.26] 286 [28.58] 726	[54.96] 1396 [72.28] 1836	[19.69] 500 [37.01] 940	395 /492	M20X2.5
	8” ANSI 150 LB RF	(25.20) 640	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[49.45] 1256 [66.77] 1696	[9.61] 244	[20.67] 525	[14.37] 365	[11.26] 286 [28.58] 726	[54.96] 1396 [72.28] 1836	[19.69] 500 [37.01] 940	395 /492	3/4”-10 UNC HEAVY HEX
	DIN DN 250	(25.98) 660	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[52.13] 1324 [69.45] 1764	[9.61] 244	[22.05] 560	[17.72] 450	[9.29] 236 [26.61] 676	[57.72] 1466 [75.04] 1906	[19.69] 500 [37.01] 940	428 /525	M24X3
	10” ANSI 150 LB RF	(25.98) 660	[14.90] 380	[16.00] 406.4	[20.08] 510	[23.35] 593	[52.13] 1324 [69.45] 1764	[9.61] 244	[22.05] 560	[17.72] 450	[9.29] 236 [26.61] 676	[57.72] 1466 [75.04] 1906	[19.69] 500 [37.01] 940	428 /525	7/8”-9UNC HEAVY HEX

Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print..

See next pages for other sizes of dimensions.

Dimensions
RFL 4000 - 15020

Size	Flange Port	b1	d1	d2	d3	d4	h1	h2	h3	h4	h5	h6	h7	Wt. (lbs.)	Use Bolt
RFL 6500/6520	DIN DN 100	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[11.97] 304	[13.23] 336 [30.55] 776	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	487/604	M16X2
	4" ANSI 150 LB RF	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[11.97] 304	[13.23] 336 [30.55] 776	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	487/604	5/8"-11UNC HEAVY HEX
	DIN DN 125	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[14.96] 380	[10.24] 260 [27.56] 700	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	496/613	M16X2
	DIN DN 150	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[14.37] 365	[10.83] 275 [28.15] 715	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	507/624	M20X2.5
	6" ANSI 150 LB RF	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[14.37] 365	[10.83] 275 [28.15] 715	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	507/ 624	3/4"-10UNC HEAVY HEX
	DIN DN 200	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[18.11] 460	[9.45] 240 [26.77] 680	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	540/657	M20X2.5
	8" ANSI 150 LB RF	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[18.11] 460	[9.45] 240 [26.77] 680	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	540/657	3/4"-10UNC HEAVY HEX
	DIN DN 250	[30.71] 780	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[17.72] 450	[9.84] 250 [27.17] 690	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	562/679	M24X3
	10" ANSI 150 LB RF	[30.71] 780	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[17.72] 450	[9.84] 250 [27.17] 690	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	562/679	7/8"-9UNC HEAVY HEX
RFL 7800/7820	DIN DN 100	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[11.97] 304	[13.23] 336 [30.55] 776	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	496/622	M16X2
	4" ANSI 150 LB RF	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[11.97] 304	[13.23] 336 [30.55] 776	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	496/622	5/8"-11UNC HEAVY HEX
	DIN DN 125	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[14.96] 380	[10.24] 260 [27.56] 700	[55.31] 1405 [72.64] 1845	[19.69] 500 [37.01] 940	505/631	M16X2
	6" ANSI 150 LB RF	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[14.37] 365	[10.24] 260 [27.56] 700	[54.72] 1390 [72.05] 1830	[19.69] 500 [37.01] 940	505/631	5/8"-11UNC HEAVY HEX
	DIN DN 150	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[49.61] 1260 [66.93] 1700	[10.04] 255	[21.26] 540	[14.37] 365	[10.83] 275 [28.15] 715	[54.72] 1390 [72.05] 1830	[19.69] 500 [37.01] 940	516/642	M20X2.5
	DIN DN 200	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[18.11] 460	[9.45] 240 [26.77] 680	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	549/675	M20X2.5
	8" ANSI 150 LB RF	[29.13] 740	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[18.11] 460	[9.45] 240 [26.77] 680	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	549/675	3/4"-10UNC HEAVY HEX
	DIN DN 250	[30.71] 780	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[17.72] 450	[9.84] 250 [27.17] 690	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	571/697	M24X3
	10" ANSI 150 LB RF	[30.71] 780	[18.90] 480	[20.00] 508	[24.41] 620	[27.51] 699	[54.33] 1380 [71.65] 1820	[10.04] 255	[23.62] 600	[17.72] 450	[9.84] 250 [27.17] 690	[60.04] 1525 [77.36] 1965	[19.69] 500 [37.01] 940	571/697	7/8"-9UNC HEAVY HEX

Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print..

Dimensions
RFL 4000 - 15020

Size	Flange Port	b1	d1	d2	d3	d4	h1	h2	h3	h4	h5	h6	h7	Wt. (lbs.)	Use Bolt
RFL 15000/ 15020	DIN DN 200	[39.37] 1000	[27.17] 690	[27.99] 711	[32.68] 830	[35.66] 906	[56.1] 1425 [73.43] 1865	[10.35] 263	[25.79] 655	[14.37] 365	[12.99] 330 [30.31] 770	[64.17] 1630 [81.50] 2070	[19.69] 500 [37.01] 940	1047/1254	M20X2.5
	8" ANSI 150 LB RF	[39.37] 1000	[27.17] 690	[27.99] 711	[32.68] 830	[35.66] 906	[56.1] 1425 [73.43] 1865	[10.35] 263	[25.79] 655	[14.37] 365	[12.99] 330 [30.31] 770	[63.98] 1625 [81.50] 2070	[19.69] 500 [37.01] 940	1047/1254	3/4"-10UNC HEAVY HEX
	DIN DN 250	[39.37] 1000	[27.17] 690	[27.99] 711	[32.68] 830	[35.66] 906	[56.1] 1425 [73.43] 1865	[10.35] 263	[25.79] 655	[17.72] 450	[9.65] 245 [26.97] 685	[63.98] 1625 [81.50] 2070	[19.69] 500 [37.01] 940	1074/1280	M24X3
	10" ANSI 150 LB RF	[39.37] 1000	[27.17] 690	[27.99] 711	[32.68] 830	[35.66] 906	[56.1] 1425 [73.43] 1865	[10.35] 263	[25.79] 655	[17.72] 450	[9.65] 245 [26.97] 685	[63.98] 1625 [81.50] 2070	[19.69] 500 [37.01] 940	1074/1280	7/8"-9UNC HEAVY HEX
	DIN DN 300	[39.37] 1000	[27.17] 690	[27.99] 711	[32.68] 830	[35.66] 906	[58.86] 1495 [76.18] 1935	[10.35] 263	[26.38] 670	[20.28] 515	[9.25] 235 [26.57] 675	[66.93] 1700 [84.25] 2140	[19.69] 500 [37.01] 940	1129/1335	M24X3
	12" ANSI 150 LB RF	[39.37] 1000	[27.17] 690	[27.99] 711	[32.68] 830	[35.66] 906	[58.86] 1495 [76.18] 1935	[10.35] 263	[26.38] 670	[20.28] 515	[9.25] 235 [26.57] 675	[66.93] 1700 [84.25] 2140	[19.69] 500 [37.01] 940	1129/1335	7/8"-9UNC HEAVY HEX

Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element.
For complete dimensions please contact HYDAC to request a certified print..

LOW PRESSURE FILTERS

Sizing Information

Total pressure loss through the filter is as follows:

Assembly ΔP = Housing ΔP + Element ΔP

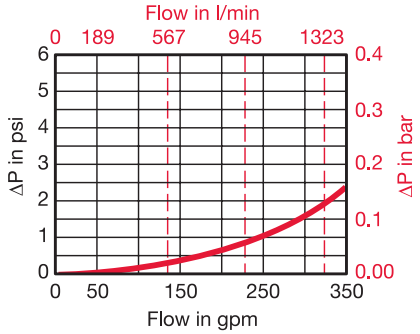
Housing Curve:

Pressure loss through housing is as follows:

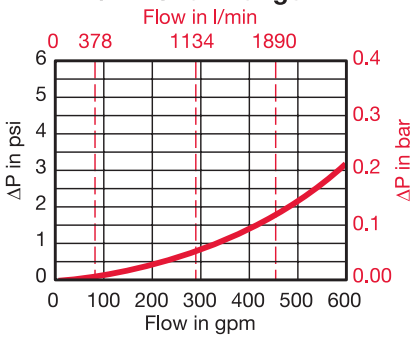
$$\text{Housing } \Delta P = \text{Housing Curve } \Delta P \times \frac{\text{Actual Specific Gravity}}{0.86}$$

Adjustments must be made for viscosity & specific gravity of the fluid to be used! *(see "Sizing HYDAC Filter Assemblies" in Section B - Overview)*

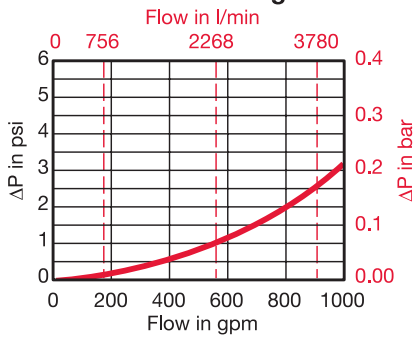
RFL 1300/1320 Housing w/ ANSI 4" Flange



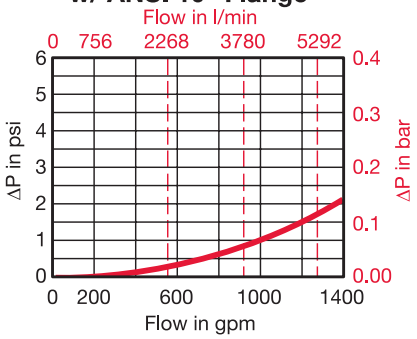
RFL 2500/2520 Housing w/ ANSI 6" Flange



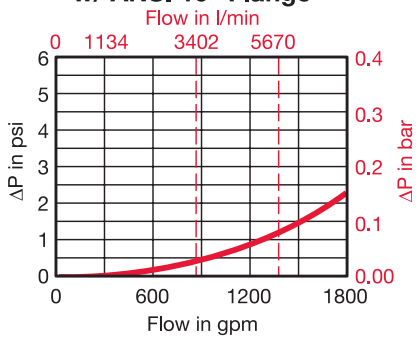
RFL 4000/4020 Housing w/ ANSI 8" Flange



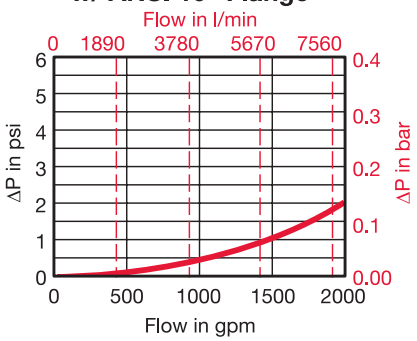
RFL 5200/5220 Housing w/ ANSI 10" Flange



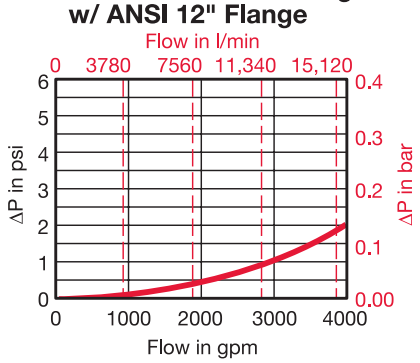
RFL 6500/6520 Housing w/ ANSI 10" Flange



RFL 7800/7820 Housing w/ ANSI 10" Flange



RFL 15000/15020 Housing w/ ANSI 12" Flange



PN#02081318 / 04.26 / FIL1907-2109

Required Element Per Housing

Housing Size	Element Size	Elements per Side
1300 / 1320	1300 / 2600	1 / 1
2500 / 2520	0850 / 1700	3 / 3
4000 / 4020	0850 / 1700	5 / 5
5200 / 5220	1300 / 2600	4 / 4
6500 / 6520	1300 / 2600	5 / 5
7800 / 7820	1300 / 2600	6 / 6
15000 / 15020	1300 / 2600	10 / 10

Element K Factors

$$\Delta P \text{ Elements} = \underset{\text{(From Tables Below)}}{\text{Elements (K) Flow Factor}} \times \text{Flow Rate (gpm)} \times \frac{\text{Actual Viscosity (SUS)}}{141 \text{ SUS}} \times \frac{\text{Actual Specific Gravity}}{0.86}$$

Sustainmicron	...R...SN Elements			
Size	3 µm	5 µm	10 µm	20 µm
0850 R XXX SN	0.0662	0.0523	0.0279	0.0152
1300 R XXX SN	0.0338	0.0306	0.0169	0.0092
1700 R XXX SN	0.0323	0.0275	0.0136	0.0074
2600 R XXX SN	0.0169	0.0152	0.0085	0.0046

Stat-X	...R...XSX			
Size	3 µm	5 µm	10 µm	20 µm
0850 R XXX XSX	0.072	0.055	0.032	0.02
1300 R XXX XSX	0.04	0.032	0.019	0.012
1700 R XXX XSX	0.035	0.029	0.015	0.01
2600 R XXX XSX	0.02	0.016	0.01	0.006

ECOmicron	...R...ECON2			
Size	3 µm	5 µm	10 µm	20 µm
0850 R XXX ECON2	0.082	0.055	0.038	0.022
1300 R XXX ECON2	0.044	0.033	0.022	0.016
1700 R XXX ECON2	0.038	0.027	0.016	0.011
2600 R XXX ECON2	0.022	0.016	0.011	0.005

Betamicron/Aquamicron	...R...BN4AM	
Size	3 µm	10 µm
0850 R XXX BN4AM	0.154	0.049
1300 R XXX BN4AM	0.088	0.033
1700 R XXX BN4AM	0.071	0.027
2600 R XXX BN4AM	0.055	0.016

Aquamicron	...R...AM
Size	40 µm
0850 R 040 AM	0.040
1300 R 040 AM	0.026
1700 R 040 AM	0.020
2600 R 040 AM	0.013

Wire Screen	...R...W/HC
Size	25, 50, 100, 200 µm
0850 R XXX W/HC	0.003
1300 R XXX W/HC	0.002
1700 R XXX W/HC	0.001
2600 R XXX W/HC	0.001

Polyester	...R...P/HC	
Size	10 µm	20 µm
0850 R XXX P/HC	0.007	0.003
1300 R XXX P/HC	0.004	0.002
1700 R XXX P/HC	0.003	0.002
2600 R XXX P/HC	0.002	0.001

All Element K Factors in psi / gpm.