FILTRATION SYSTEMS

V-Series Automatic Screen Filters

General Information

The V-Series™ design is the most recent, state-of-the-art self-cleaning screen filtration technology available today. The complexity and cleaning efficiency of any self-cleaning screen filter is in the mechanical system that drives the cleaning process. The V-Series patented Bi-directional Hydrodynamic Drive (BHD) mechanism is the simplest and most efficient in design resulting in:

- fewer moving parts (no limit switches or pistons reversing the cleaning mechanism),
- simpler controls,
- lowest flush flow available,
- greater cleaning efficiency, and
- lower maintenance requirements.

The V-Series' 12 to 15 second flush cycle is automatically initiated when a pressure differential across the screen increases to 0.5 bar (7 psi). The filter remains on-line and the filtration process remains uninterrupted during the brief cleaning process. The flush discharge is the lowest available resulting in minimal waste.

The V-Series filters are available in ASME code and are manufactured in an ASME facility. The filters are available in a broad range of materials, pressure ratings, and temperature ratings to suit any need. VAF custom manufactures filters and skids that simplify installation and meet specific requirements.

For more information contact VAF Filtration Systems! *Wherever Water Flows...*

V-Series Specifications

Materials	
Filter body	• 3" - 20" inlet/outlet, 316 SS
Screens	• 316L SS sintered **
Flanges	• AWWA Class D **
Seals	• nitrile, viton, silicone **
Filtration Range	• 10 to 1500 micron **
Flow Range	• 7 to 1364 m^3/hr (30 to 6000 gpm) per filter *
Max Pressure	• 10 bar (150 psi) **
Min Pressure	• 2 bar (30 psi) **
Max Temp	• 80° C (176° F) **
Flush Cycle	• 12 to 15 seconds
Controller	• MicroFlush - up to 4 filters

* Varies depending on micron level.

** Other options are available on request.

VAF Filtration Systems

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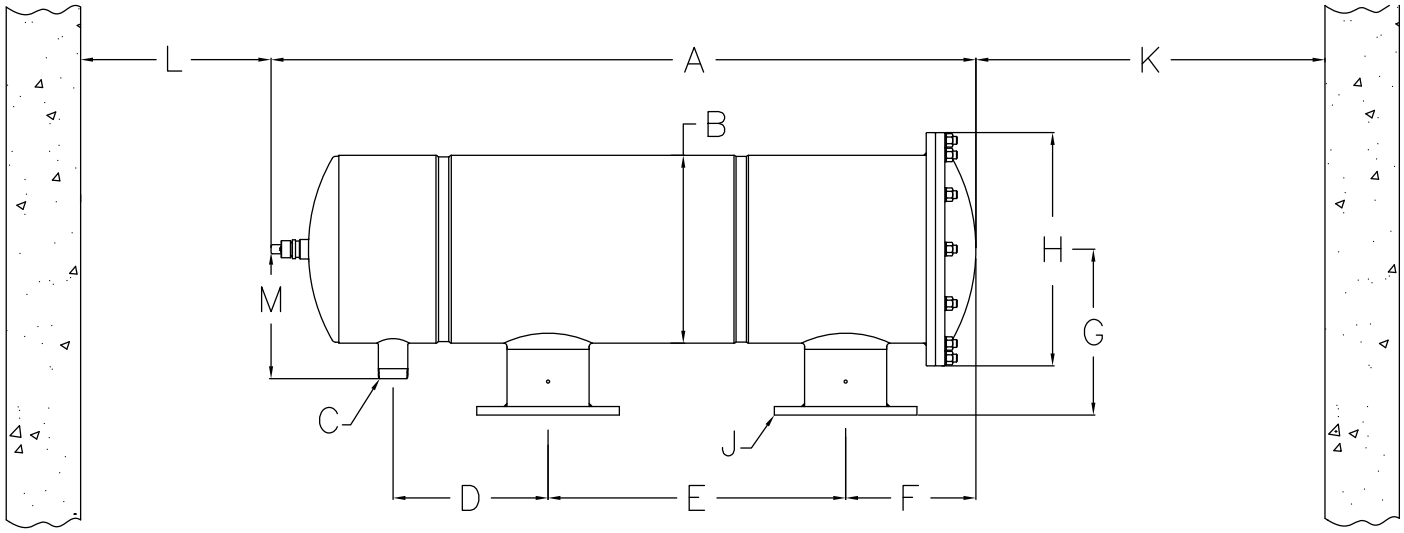
Dimensions



Model	Dimensions - cm												screen area	nominal flow (m^3/hr)			flush flow	# of nozzles
	A	B	C	D	E	F	G	H	J	K	L	M		Micron				
	length	body dia.	flush line						flange	clearance			cm^2	100	200	300	liters	
V-250-3	97.0	25.7	3.8	19.3	29.2	22.4	23.3	34.3	7.6	88.9	30.5	19.3	1445	63	84	92	30	2
V-250-4							23.6		10.2									
V-500-4	122.6	25.7	3.8	21.9	54.6	22.6	23.3	34.3	10.2	114.3	30.5	19.3	2890	125	168	184	57	4
V-500-6	127.7					25.1	27.8		15.2									
V-1000-6	154.0	38.5	5.1	34.6	61.0	28.8	33.2	47.8	15.2	152.4	30.5	26.9	5594	24	325	356	57	4
V-1000-8							33.5		20.3									
V-1500-8	184.7	38.5	5.1	34.6	91.4	28.8	32.0	47.8	20.3	177.8	30.5	26.9	8387	363	487	534	87	6
V-1500-10	183.9	38.8				31.7	34.0		25.4			26.7						
V-2000-X	208.6	51.7	5.1	45.7	91.4	44.3	42.9	69.9	25.4-30.5-35.6	177.8	30.5	32.9	10942	474	636	697	87	6
V-3500-X	317.2	61.0	7.6	93.3	127.0	55.0	51.1	81.3	35.6-40.6-50.8	269.2	30.5	41.7	19742	855	1147	1258	167	8

Model	Dimensions - inches												screen area	nominal flow (gpm)			flush flow	# of nozzles
	A	B	C	D	E	F	G	H	J	K	L	M		Micron				
	length	body dia.	flush line						flange	clearance			in^2	100	200	300	gallons	
V-250-3	38.2	10.1	1.5" NPT	7.6	11.5	8.8	9.2	13.5	3	35.0	12.0	7.6	224	276	370	405	8	2
V-250-4							9.3		4	35.0	12.0							
V-500-4	48.3	10.1	1.5" NPT	8.6	21.5	8.9	9.2	13.5	4	45.0	12.0	7.6	448	551	739	811	15	4
V-500-6	50.3					9.9	11.0		6									
V-1000-6	60.6	15.2	2" NPT	13.6	24.0	11.3	13.1	18.8	6	60.0	12.0	10.6	867	1066	1431	1569	15	4
V-1000-8							13.2		8									
V-1500-8	72.7	15.2	2" NPT	13.6	36.0	11.3	12.6	18.8	8	70.0	12.0	10.6	1300	1599	2145	2353	23	6
V-1500-10	72.4	15.3				12.5	13.4		10			10.5						
V-2000-X	82.1	20.3	2" NPT	18.0	36.0	17.4	16.9	27.5	10-12-14	70.0	12.0	12.9	1696	2086	2798	3070	23	6
V-3500-X	124.9	24.0	3" FLG	36.7	50.0	21.7	20.1	32.0	14-16-20	106.0	12.0	16.4	3060	3764	5049	5539	44	8

Note: VAF "nominal flow" rates shown are for 100, 200 and 300 micron filtration ratings for demonstration purposes only. Larger micron ratings result in higher allowable flow rates. Smaller micron ratings result in lower allowable flow rates.

Nominal Flow rate in m^3/hr or gpm shown for each model is the maximum flow rate for that model with 100, 200 and 300 micron screens.

Flush Flow volume shown for each model is the volume of water used for that model when the pressure available to the filter is 2.4 bar (35 psi) during a 15 second flush cycle.

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