



VAF™ FILTRATION SYSTEMS V-1000 AUTOMATIC SCREEN FILTERS

GENERAL INFORMATION

The V-Series™ system 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 patented+ V-Series bi-directional drive mechanism is the simplest and most efficient design resulting in:

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

The V-Series system 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 is uninterrupted during the brief cleaning process. The flush discharge is the among the lowest available resulting in minimal waste.

The V-Series filters are available ASME certified and are manufactured in an ASME certified facility. The filters come in a broad range of materials, pressure and temperature ratings. Evoqua custom manufactures filters and skids that simplify installation and meet specific requirements.

Specifications

Materials

- Filter Body: 6" - 8" inlet/outlet 316L SS **
- Screens: 316L SS sintered **
- Flanges: AWWA Class D **
- Seals: Nitrile, viton, silicone **

Filtration Range

- 10 to 1500 micron

Flow Range

- 14 to 374 m³/hr (60 to 1,647 gpm) per filter *

Maximum Pressure

- 10 bar (150 psi) **

Minimum Pressure

- 2 bar (30 psi) **

Maximum Temperature

- 80° C (176° F) **

Flush Cycle

- 12 to 15 seconds

Controller

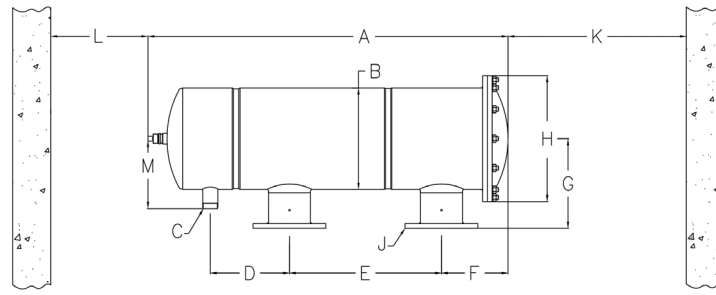
- MicroFlush™ control system - up to four filters **

* Varies depending on micron level

** Other options available upon request

+Patented in some countries

V-SERIES™ DIMENSIONS



| MODEL | DIMENSIONS (CM) | | | | | | | | DIMENSIONS (MM) | | | | DIMENSIONS (CM) | | SCREEN AREA CM ² | NOMINAL FLOW (M ³ /HR) | | | FLUSH FLOW LITERS |
|-----------|-----------------|------|-----|------|-------|------|------|------|-----------------|-------|------|------|-----------------|-----|--------------------------------|-----------------------------------|-----|--|----------------------|
| | A | B | C | D | E | F | G | H | J | K | L | M | MICRON | | | | | | |
| | | | | | | | | | FLG | | | | | 100 | 200 | 300 | | | |
| V-250-3 | 97.6 | 25.7 | 3.8 | 25.4 | 29.2 | 22.9 | 23.5 | 34.3 | 80 | 88.9 | 30.5 | 18.2 | 1445 | 63 | 84 | 92 | 30 | | |
| V-250-4 | 97.6 | 25.7 | 3.8 | 25.4 | 29.2 | 22.9 | 23.5 | 34.3 | 100 | 88.9 | 30.5 | 18.2 | 1445 | 63 | 84 | 92 | 30 | | |
| V-500-4 | 123.3 | 25.7 | 3.8 | 25.4 | 54.6 | 22.9 | 23.5 | 34.3 | 100 | 114.3 | 30.5 | 18.2 | 2890 | 125 | 168 | 184 | 57 | | |
| V-500-6 | 128.4 | 25.7 | 3.8 | 27.9 | 54.6 | 25.4 | 27.8 | 34.3 | 150 | 114.3 | 30.5 | 18.2 | 2890 | 125 | 168 | 184 | 57 | | |
| V-1000-6 | 164.6 | 38.6 | 5.1 | 40.2 | 61.0 | 35.2 | 34.3 | 47.8 | 150 | 152.4 | 30.5 | 26.9 | 5594 | 242 | 325 | 356 | 57 | | |
| V-1000-8 | 164.6 | 38.6 | 5.1 | 40.2 | 61.0 | 35.2 | 34.3 | 47.8 | 200 | 152.4 | 30.5 | 26.9 | 5594 | 242 | 325 | 356 | 57 | | |
| V-1500-8 | 195.1 | 38.6 | 5.1 | 40.2 | 91.4 | 35.2 | 34.3 | 47.8 | 200 | 178.0 | 30.5 | 26.9 | 8387 | 363 | 487 | 534 | 87 | | |
| V-1500-10 | 195.1 | 38.6 | 5.1 | 40.2 | 91.4 | 35.2 | 34.3 | 47.8 | 250 | 178.0 | 30.5 | 26.9 | 8387 | 363 | 487 | 534 | 87 | | |
| V-2000H-X | 208.8 | 51.7 | 5.1 | 45.7 | 91.4 | 44.2 | 43.2 | 69.9 | 250 - 300 - 350 | 178.0 | 30.5 | 32.9 | 10942 | 474 | 636 | 697 | 87 | | |
| V-3500-X | 317.5 | 61.0 | 7.6 | 93.3 | 127.0 | 55.3 | 51.1 | 81.3 | 350 - 400 - 500 | 269.3 | 30.5 | 41.7 | 19742 | 855 | 1147 | 1258 | 167 | | |

| MODEL | DIMENSIONS (IN) | | | | | | | | | | | SCREEN AREA IN ² | NOMINAL FLOW (GPM) | | | FLUSH FLOW GAL | |
|-----------|-----------------|------|---------|------|------|------|------|------|--------------|-------|------|--------------------------------|--------------------|--------|------|-------------------|----|
| | A | B | C | D | E | F | G | H | J | K | L | | M | MICRON | | | |
| | | | | | | | | | | | | | 100 | 200 | 300 | | |
| V-250-3 | 38.4 | 10.1 | 1.5 NPT | 10.0 | 11.5 | 9.0 | 9.2 | 13.5 | 3 | 35.0 | 12.0 | 7.2 | 224 | 276 | 370 | 405 | 8 |
| V-250-4 | 38.4 | 10.1 | 1.5 NPT | 10.0 | 11.5 | 9.0 | 9.2 | 13.5 | 4 | 35.0 | 12.0 | 7.2 | 224 | 276 | 370 | 405 | 8 |
| V-500-4 | 48.5 | 10.1 | 1.5 NPT | 10.0 | 21.5 | 9.0 | 9.2 | 13.5 | 4 | 45.0 | 12.0 | 7.2 | 448 | 551 | 739 | 811 | 15 |
| V-500-6 | 50.5 | 10.1 | 1.5 NPT | 11.0 | 21.5 | 10.0 | 11.0 | 13.5 | 6 | 45.0 | 12.0 | 7.2 | 448 | 551 | 739 | 811 | 15 |
| V-1000-6 | 64.8 | 15.2 | 2 NPT | 15.8 | 24.0 | 13.9 | 13.5 | 18.8 | 6 | 60.0 | 12.0 | 10.6 | 867 | 1066 | 1431 | 1569 | 15 |
| V-1000-8 | 64.8 | 15.2 | 2 NPT | 15.8 | 24.0 | 13.9 | 13.5 | 18.8 | 8 | 60.0 | 12.0 | 10.6 | 867 | 1066 | 1431 | 1569 | 15 |
| V-1500-8 | 76.8 | 15.2 | 2 NPT | 15.8 | 36.0 | 13.9 | 13.5 | 18.8 | 8 | 70.0 | 12.0 | 10.6 | 1300 | 1599 | 2145 | 2353 | 23 |
| V-1500-10 | 76.8 | 15.2 | 2 NPT | 15.8 | 36.0 | 13.9 | 13.5 | 18.8 | 10 | 70.0 | 12.0 | 10.6 | 1300 | 1599 | 2145 | 2353 | 23 |
| V-2000H-X | 82.2 | 20.3 | 2 NPT | 18.0 | 36.0 | 17.4 | 17.0 | 27.5 | 10 - 12 - 14 | 70.0 | 12.0 | 12.9 | 1696 | 2086 | 2798 | 3070 | 23 |
| V-3500-X | 125.0 | 24.0 | 3 FLG | 36.7 | 50.0 | 21.8 | 20.1 | 32.0 | 14 - 16 - 20 | 106.0 | 12.0 | 16.4 | 3060 | 3764 | 5049 | 5539 | 44 |

NOTES:

Nominal flow rates shown are the maximum flow rate for that model with 100, 200, and 300 micron screens for demonstration purposes only. Larger micron ratings result in higher allowable flow rates. Smaller micron ratings result in lower allowable flow rates.

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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VAFV SERIES.DS.1217