VAF™ FILTRATION SYSTEMS
V-200ST AUTOMATIC SCREEN FILTERS

GENERAL INFORMATION

The V-200ST filter incorporates the latest self-cleaning screen filtration technology available. Ideal for flow rates from 7 to 50 m³/hr (30 to 220 gpm), the V-200ST filter offers the best value solution for automatic filtration down to 10 micron rating.

The patented 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 rates and volumes
- no power required
- multiple pass cleaning
- limited maintenance requirements

The 10 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 among the lowest available resulting in minimal waste.

Constructed using 316L stainless steel, the inherently corrosion resistant materials of the V-200ST filter ensure a long service life under a wide range of water quality conditions including process water, cooling tower filtration, pre-filtration to membrane, and irrigation.

Specifications

Materials
- Filter Body: 3” Flange inlet/outlet 316L SS **
- Screens: 316L SS sintered **
- Flanges: AWWA Class D **
- Seals: EPDM **

Filtration Range
- 10 to 1500 micron

Flow Range
- 7 to 50 m³/hr (30 to 220 gpm) per filter *

Maximum Pressure
- 10 bar (150 psi) **

Minimum Pressure
- 2 bar (30 psi) **

Maximum Temperature
- 80° C (176° F) **

Flush Cycle
- 10 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-200ST SPECIFICATIONS

Maximum Flow Rates

Flow in gpm

Screen Rating in Micron

Good Quality
Average Quality
Maximum Flow by Water Quality
Poor Quality

Nominal Flow rates shown are for demonstration purposes only. Smaller micron ratings result in lower allowable flow rates.

Flush Flow Rates

Bar

Flush Flow Rate in gpm

PSI

3" Flanged Inlet
3" Flanged Outlet

Sintered Weave-Wire Screen
- 316L stainless steel
- Eliminates screen wear
- Maximizes filtering area
- 10 to 1500 micron

Patented+ Bi-directional Drive
- Controls nozzle rotation for 100% screen cleaning
- Eliminates electric motors, gear boxes, limit switches, and pistons

ORDERING INFORMATION

Standard
V-200ST filter body with screen and 1.5" cast iron 24 VAC/12 VDC flush valve
V-200-PG-KIT (optional)
Controller (Other options are available)
MF4-AC-DP

Flushing Outlet 1.5" NPT
- Lowest flush flow rate available
- Less energy/smaller pumps required

VOLOM FLOW

MODEL
DIMENSIONS (MM)
SCREEN AREA
FLUSH FLOW
FLUSH LINE INLET/OUTLET MICRON LITERS
V-200ST 40 80 1129 30 36 44 50 15

MODEL
DIMENSIONS (IN)
SCREEN AREA
FLUSH FLOW
FLUSH LINE INLET/OUTLET MICRON GPM GAL
V-200ST 1.5 3 175 131 158 193 220 4

NOTES:
Nominal flow rates shown are for demonstration purposes only. 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 10 second flush cycle.

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