LEVIATHAN SERIES

AUTOMATIC BRUSH FILTERS

- ✓ Full 316 Stainless Steel Construction
- 4-Layer Sintered Screen with Class Leading Effective Screen Area
- Highly Effective Cleaning with Over 99% Recovery Rate and Full Screen Recovery
- ✓ Horizontal and Vertical Models Available

filter

- ✓ Easy Access to Internal Parts
- ✓ The Filters are Plug & Play
- ✓ Failsafe NC Flush Valve
- Bluetooth DC Powered Controller

| Up to 8,000 m³/h Max. Flow Rate | 200-6,000 μm Filtration Degree | 100% Screen Cleaning | Less than 1% Backwash Water Consumption |
|---|--|--------------------------------|--|
| 1 bar (14.7 psi) | Up to 80,000 cm² | AD 2000 PV | Max. Temp |
| Min. Operating Pressure | Filter Area | Design Code | 60°C |



ENGINEERED FILTRATION

OUR TECHNOLOGY

The Filtersafe Leviathan Automatic Brush filters are reliable filters that work hard for you, designed for near zero maintenance. The filters are available with either wedge-wire or perforated screens. Both options use a heavy-duty, highly-durable brush for cleaning high loads of suspended solids with continuous operation.



Brush Filter Cleaning



Wedgewire Screen



Perforated Screen

Air Release Valve Moto Gear Drive Shaft Screen Brush Aw Water Inlet P P P Epishing Valve P Epishing Valve P

Cleans while in operation:

- 1. The wedge-wire or perforated screen traps solids and dirt.
- 2. As sediments and particles are trapped, pressure differential between the inlet and the outlet triggers the cleaning process.
- 3. The brushes rotate and removes all captured particles on the screen surface towards the open flushing valve.
- 4. The filter returns to its original state.

| P1 | Inlet | pressure | |
|-------------|-----------------------|--|--|
| P2 | Outle | et pressure | |
| P3 | Discharge pressure | | |
| P1 - | P2 = | ΔP across the screen | |
| P1 - | P3 = | Pressure difference at the discharge point shall be at least 1 (bar) | |

Custom Features:

- · Skid Mounting for plug & play and mobility.
- Rubber Line for seawater and chemical applications
- Horizontal Orientation for customized installations
- ATEX & IECEx hazardous area compliance upon request

International and National Design Codes Compatibility

Filtersafe builds when required to ASME & PED standards and can comply with any international specifications or requirements.



Vertical Configuration

DOC-00500