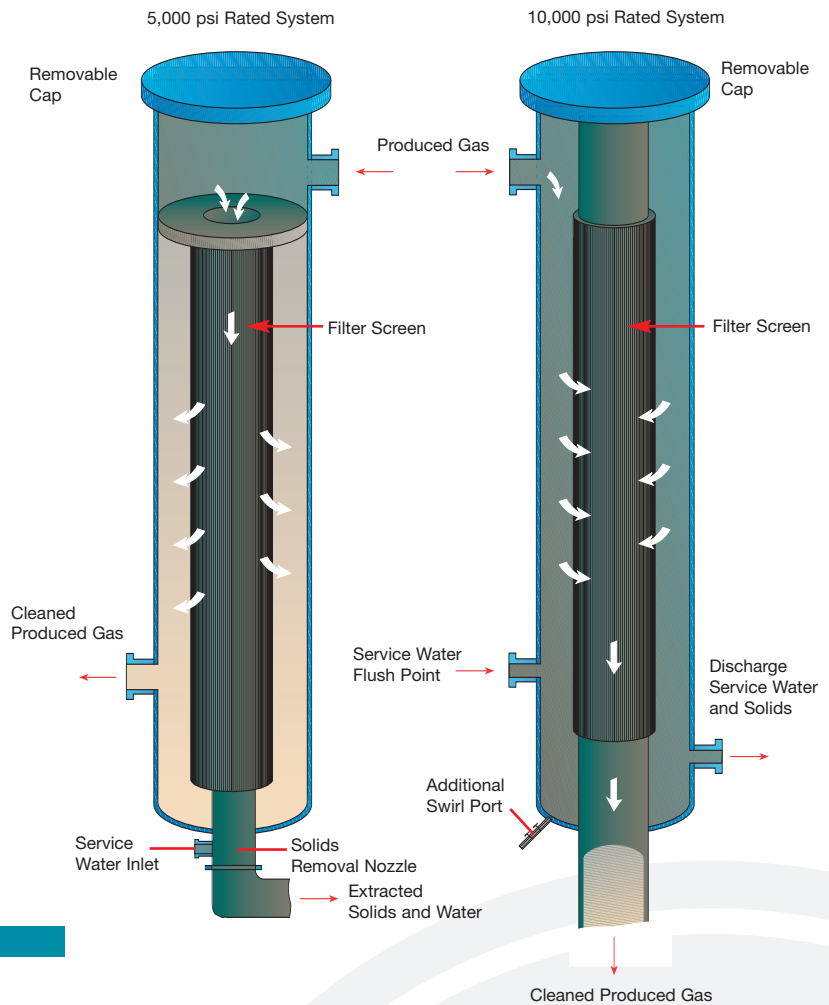


Solids exclusion filter

The solids exclusion filter systems developed by Expro incorporate an in-line flushing technique which alleviates labour intensive operations. Filter elements do not then need to be removed at regular intervals and so, significant safety complications can be avoided when producing H₂S gas in the flow stream. Online extraction drastically reduces the time and hazards associated with solid extraction systems.

Systems are available in two different working pressures: 5,000 and 10,000 psi. Both incorporate bespoke sand filters and also feature specially designed nozzles to enable solids to be extracted under pressure. This unique feature allows operations to be run continuously with minimal supervision.



Features & Benefits:

- On-line solids removal
- Small footprint size
- High working pressures
- Combines proven technology
- Alleviates labour intensive activities and ensures safe operation
- Suitable for production platforms
- Greater operating flexibility
- Reliable filter systems



Solids exclusion filter

Technical Specifications:

Service	Sour Service	Sour Service
Working Pressure	5,000 psi (350 bar)	10,000 psi (690 bar)
Temperature Rating	-25°F to 250°F (-31°C to 121°C)	-25°F to 250°F (-31°C to 121°C)
Inlet Connection	3" 602 Union or H3 C25 Hub	3" 1502 Union or H4 D31 Hub
Outlet Connection	3" 602 Union or H3 C25 Hub	3" 1502 Union or H4 D31 Hub
Flush Water Inlet	2" 1502F Union	2" 1502F Union
Flush Water Outlet	2" 1502M Union	2" 1502M Union
Blowdown Outlet	2" 1502M Union	2" 1502M Union
Maximum Gas Rate	Dependent on Liquid Load and Screen Size *	Dependent on Liquid Load and Screen Size *
Maximum Liquid Rates	Dependent on Screen Size and Liquid Viscosity *	Dependent on Screen Size and Liquid Viscosity *
Screen Sizes Available	100, 200 & 400 micron	100, 200 & 400 micron
Solids Holding Capacity (approx) (Dependent on particle sizes)	1.22 ft ³ or 106lbs @ Density of 87lbs/ft ³	Sand 10 ft ³ , or 870 lbs @ Sand Density of 87 lbs/ft ³
Design Code	BS 5500 Cat I, ASME VII Div 1 ANSI B31.3, NACE MR-01-075	BS 5500 Cat I, ASME VII Div 1 ANSI B31.3, NACE MR-01-075
Dimensions		
Size	2.15 m x 1.83 m x 4.2 m	1.8 m x 2.1 m x 3.8m
Weight	5,000 kg	9,500 kg

* Sand filter sizing is highly dependent on the flowing conditions and are usually based on the worst case expected flowing parameters. To ensure appropriate specification of filter, contact Expro's engineering team for assistance.

Certification:

Certified by Bureau Veritas