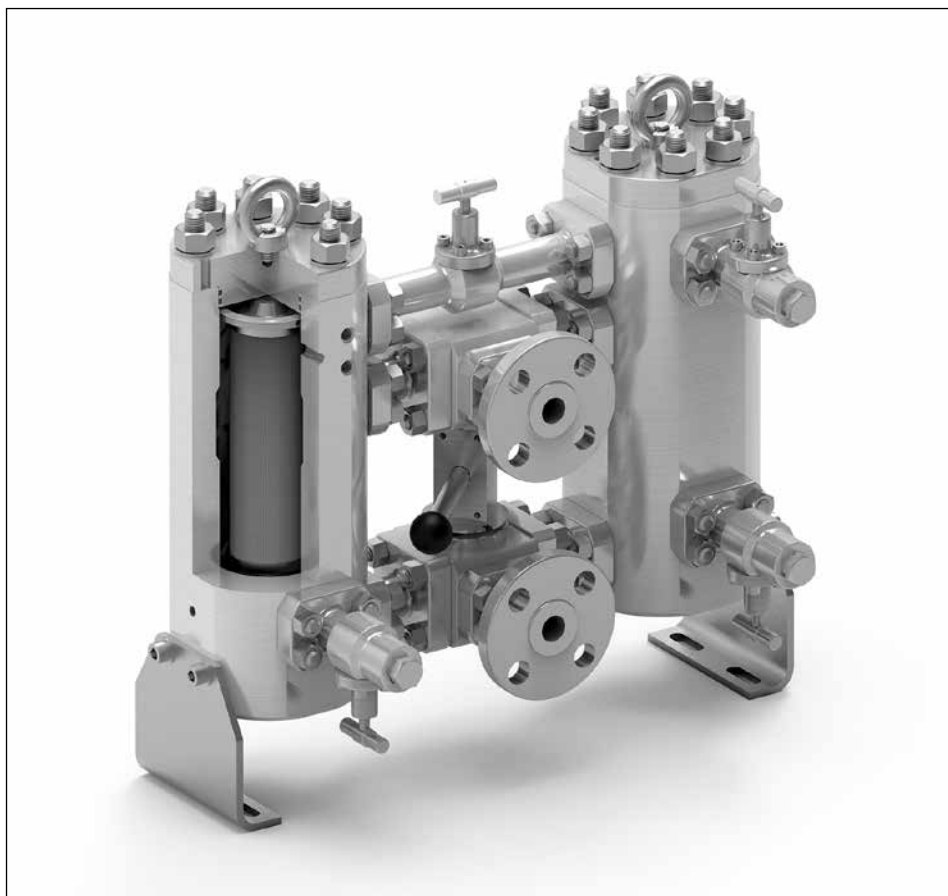




Product Description

Seal gas filters are available in single and duplex configuration, in stainless steel as a standard and in higher alloys. The filters comply with international pressure vessel and design codes such as API 692.

The filter provides a continuous flow of dry and clean seal gas with contaminants filtered down to particle sizes of 1 micron and smaller at efficiencies to 99.9%, tested in accordance with ISO standard 12500.

Applications

- Centrifugal compressors fitted with dry gas seals
- Turbo expanders

Design Features

- Coalescing and particle filtration element options
- Interlinked transfer valves with bolted construction and double O-ring sealed connections providing a safe and zero-leak operation both to atmosphere and between the pressure vessels
- Bolted cover construction allowing an easy and clean filter element change out

- Compliance to international pressure vessel codes, PED, ASME, Chinese ML, TR-CU etc.
- Double block and bleed transfer valve arrangement

Qualification Standards

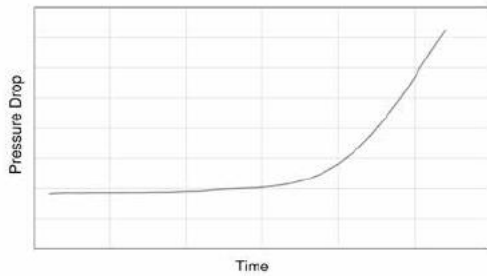
Standard compliance: ASME VIII Div. 1/PED/ATEX Ex II 2G/API 692

Optional: U-stamp, TR-CU, ML, Dosh, NR13, ARH, AS1210, CRN, etc

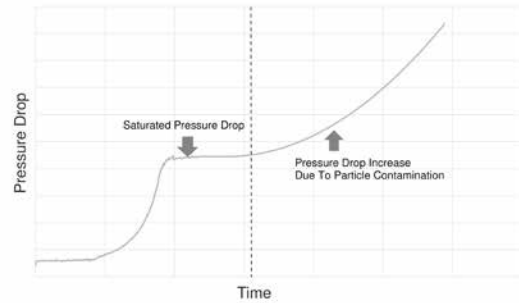
Operating Parameters/Design Conditions

- Filtering of process gases and nitrogen with cleanliness requirements down to 1 micron or smaller
- Removal of liquids from gas down to 0.01 ppm (w)
- Temperatures from -196° to 250°C/-320 to 482°F
- Pressure up to 8000 psig/550 barg
- Standard material Stainless steel ASTM A 182 GRF 316(L) with higher grade alloys as option
- Maximum Flow Rate: Sizing in accordance with API 692 or alternatively based on maximum gas coalescing velocity

Typical Pressure Drop Curve Particulate Filter



Typical Pressure Drop Curve Combined Particulate Coalescing Filter



Product Range

			Options			
Type	Size	In/Outlet	Single	Duplex	Double Block & Bleed	Pre-Separation
ISSH	1-00055	1/2 - 3/4 - 1"	X			
	1-00085	1/2 - 3/4 - 1"	X	X	X	
	1-00125	3/4 - 1"	X	X	X	X
	1-00185	1" - 1 1/2"	X	X	X	X
	2-00225	1 1/2" - 2"	X	X	X	X
	2-00330	2"	X	X	X	X
	3-01130	2" - 3"	X	X	X	X

Filter Element Options

Type	Temperature	Code	Rating	Efficiency	Filter media
Particulate only	≤ 150°C	GF03	3 micron	99.9%/β 1000	Glass fibre
	≤ 320°C	SS03	3 micron	99.9%/β 1000	Stainless steel
Combined particulate and coalescing	≤ 150°C	D-SPG	3 micron	99.9%/β 1000	Glass fibre
	≤ 320°C	H-SS-UPG	3 micron	99.9%/β 1000	Stainless steel
	≤ 150°C	D-XPG	1 micron	99.9%/β 1000	Glass fibre
	≤ 320°C	H-SS-XPG	1 micron	99.9%/β 1000	Stainless steel

Filter elements are tested in accordance with ISO12500-1 for oil aerosol capture and ISO 12500-3 for particulate removal efficiency.