

### 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

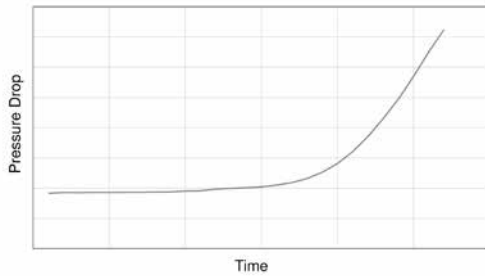
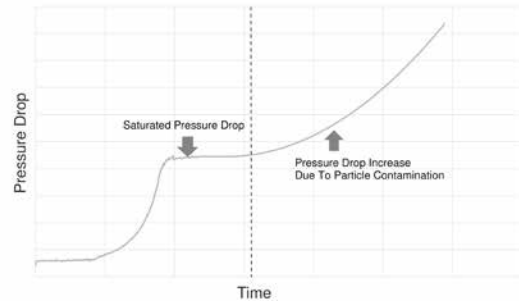
### Qualification Standards

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.



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