

PROMET (Mesh sinterd filter)

Description

PROMET MS series filter cartridges are constructed from fine-woven stainless steel wire meshes with higher void space. Sintered wire meshes produce an extremely strong porous material whose wires will not shift under stress and whose pore size integrity is continually maintained.

This style filter cartridges with applications in bulk active pharmaceutical chemical purification processes such as catalyst solids recovery and decolorizing carbon removal.



Features

- All stainless steel construction and fully welded
- Excellent mechanical strength
- Available in pleated and wrap-around arrangement
- No material migration
- Support drain construction ensure pleat strength
- Three end cap configurations available
- Back flush
- Special design available

Applications

- High temperature fluid
- High viscosity fluid, corrosive liquid and gas
- Toxic or hazardous fluid
- Process steam
- Natural or process gas paint & varnish

Specifications

Dimension & Structure	Length ID OD	10", 20", 30", 40" / 250, 500, 750, 1000 mm 30 mm 68 mm
Materials of Construction	Filtration media O-rings & gaskets	304 SS , 316 SS Silicone, EPDM , Viton, TEV
Operating Conditions	Maximum differential pressure Maximum operating temperature	Standard welded arrangement : 87 psid / 6 bar at 25°C Heavy welded arrangement : 2263 psid / 156 bar at 25 °C 680 °F / 360 °C

Liquid Particle Retention Ratings

Removal Rating (μm)	Pleated type			Wrap around		
	1 cP	25 cP	70 cP	1 cP	25 cP	70 cP
5	15	5	3	12	4	3
10	30	10	7	27	8	5
25	42	25	21	33	18	20
40	42	27	23	42	23	26
75	42	30	27	42	30	26
100	50	30	27	42	30	32
150	50	30	27	50	35	32
250	60	33	30	50	35	32

PROMET (Fiber sinterd filter)

Description

PROMET FS series filter cartridges employ extremely micro diameter stainless steel fibers, resulting in high void volume media with increased dirt capacity and long life.

This style filter cartridges give outstanding performance especially in the removal of gel contaminants in high molecular polymer.



Features

- Absolute rated filtration
- Three times greater dirty holding capacity than conventional metal cartridges
- Double the porosity and permeability than sintered metal powder cartridges
- Four times higher flow rate than conventional metal cartridges
- No media migration or fiber release
- Exceptional mechanical strength

Applications

- High temperature fluid
- High viscosity fluid, corrosive liquid and gas
- Toxic or hazardous fluid
- Process steam
- Natural or process gas paint & varnish

Specifications

Dimension & Structure	Length ID OD	10", 20", 30", 40" / 250, 500, 750, 1000 mm 30 mm 68 mm
Materials of Construction	Filtration media O-rings & gaskets	304 SS, 316 SS Silicone, EPDM, Viton, TEV
Operating Conditions	Maximum differential pressure Maximum operating temperature	Standard welded arrangement : 87 psid / 6 bar at 25 °C Heavy welded arrangement : 2263 psid / 156 bar at 25 °C 680 °F / 360 °C

Liquid Particle Retention Ratings

Removal Rating (µm)	Liquid		Gas	
	99.98%	99.00%	99.98%	99.00%
3	3	1	1	0.3
5	5	3	2	0.8
10	10	5	3	1
20	20	10	5	3
30	30	20	10	5
40	40	30	15	10
60	60	40	20	15
75	75	50	30	20