

1200 PSIG Pressure Filters

SM-Series

Finite's stainless steel SM-Series housings are perfect for higher-pressure applications in corrosive working environments. Coalescing, particulate and adsorption filters are available. A threaded collar enables the user to easily remove the bowl for servicing, without having to remove the drain fitting and connections. The SM-Series has an SAE-4 drain port with plug.



Critical gas processing applications at elevated pressures rely on the SM-Series to provide clean, contaminant-free gas in corrosive environments.

Specifications:

Model Number	Port Size (NPT)	Max. Pressure	Max. Temp. for each Element Type	Materials of Construction			Seals	Sump Capacity	Weight	Dimensions	
				Head	Internals	Bowl				Length	Width
SMN1S, SMN2S	1/4", 1/2"	1200 PSIG (83 bar)	450°F (T) 350°F (H, G) 275°F (F) 175°F (C, CU, QU, 3PU, AU)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluoro-carbon	1.8 oz. (53.23 ml)	3.6 lbs. (1.6 kgs.)	5.2" (132 mm)	3.0" (76 mm)
SMN1M, SMN2M	1/4", 1/2"	1200 PSIG (83 bar)	450°F (T) 350°F (H, G) 275°F (F) 175°F (C, CU, QU, 3PU, AU)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluoro-carbon	1.8 oz. (53.23 ml)	4.7 lbs. (2.1 kgs.)	7.7" (196 mm)	3.0" (76 mm)
SMN1L, SMN2L	1/4", 1/2"	1200 PSIG (83 bar)	450°F (T) 350°F (H, G) 275°F (F) 175°F (C, CU, QU, 3PU, AU)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	Fluoro-carbon	1.8 oz. (53.23 ml)	5.7 lbs. (2.6 kgs.)	9.7" (246 mm)	3.0" (76 mm)

Flow Rates (SCFM):

Filter Housing Model	Media Grade	100 PSIG	250 PSIG	500 PSIG	750 PSIG	1000 PSIG	1200 PSIG
SMN1S	4	10	23	45	67	88	106
	6	13	30	58	87	115	138
	8	17	39	76	113	150	181
	10	22	51	99	147	195	233
	3PU	22	51	99	147	195	243
	AU	13	30	58	87	115	138
SMN1M	4	20	46	90	133	177	212
	6	26	60	117	173	230	275
	8	34	78	153	227	301	360
	10	44	102	197	293	389	466
	3PU	44	102	197	293	389	466
	AU	26	60	117	173	230	275
SMN1L	4	28	65	126	187	248	296
	6	36	83	162	240	318	382
	8	47	108	211	313	416	498
	10	62	143	278	413	548	657
	3PU	62	143	278	413	548	657
	AU	36	83	162	240	318	382

Filter Housing Model	Media Grade	100 PSIG	250 PSIG	500 PSIG	750 PSIG	1000 PSIG	1200 PSIG
SMN2S	4	16	37	72	107	142	169
	6	22	51	99	147	195	233
	8	29	67	130	193	257	307
	10	37	85	166	247	327	392
	3PU	37	85	166	247	327	392
	AU	22	51	99	147	195	233
SMN2M	4	32	74	144	213	283	339
	6	43	99	193	287	380	456
	8	58	134	260	387	513	615
	10	74	171	332	493	655	784
	3PU	74	171	332	493	655	784
	AU	43	99	193	287	380	456
SMN2L	4	45	104	202	300	398	477
	6	60	138	269	400	531	635
	8	81	187	363	540	717	858
	10	104	240	467	693	920	1102
	3PU	104	240	467	693	920	1102
	AU	60	138	269	400	531	635

Ordering Information:

Series Name	Port Type	Port Size	Bowl	-	Element Grade	Element Type	End Seal	Accessories
SM	N (NPT)	1 (1/4") 2 (1/2")	S (Short) M (Medium) L (Long)		4 6 8 10	C (Coalescer) Q (Coalescer with built-in prefilter) G T F H	Leave blank for no end seal (Available on type G,T,F,H,C) U (Urethane end seals, available on types C,Q,3P,A)	N (No Accessories)
					Leave blank	3P (Pleated Cellulose Particulate Element)		
					Leave Blank	A (Adsorber)		

Examples: SMN2S-8GN
SMN1L-6CUN
SMN2M-3PUN
SMN1M-AUN

Mounting bracket available: MBS-2

How to Order Replacement Elements:

Housing	Element Grade and Type	Element Size
SMN1S, SMN2S	*C, *CU, *QU, *H, *F, *G, *T, 3PU, AU	10-025
SMN1M, SMN2M	*C, *CU, *QU, *H, *F, *G, *T, 3PU, AU	10-050
SMN1L, SMN2L	*C, *CU, *QU, *H, *F, *G, *T, 3PU, AU	10-070

Housings are sold with one element. Build your own replacement element using the steps below. Refer to the chart on the left.

- Determine the housing you have.
- Determine the element type and grade you need. *Insert grades 4,6,8 or 10. See page 6-7 for more detail on grade selection.
- Determine the corresponding element size.
- Combine "Element grade and Type" designation with "Element Size" to get part number. For example: 6QU10-050. Box quantity depends on media type selected.