

OPERATION

AS STEAM OR COMPRESSED AIR ENTERS THE OVERSIZED SEPARATOR CHAMBER THE DECREASED VELOCITY AND INTERNAL BAFFLE BOTH AID IN THE SEPARATION OF MOISTURE AND CONTAMINANTS.

DESIGN SPECIFICATIONS

DESIGN STANDARDS	ASME B16.5
DESIGN CODE	ASME SECTION VIII, DIV. I (NOTE 1)
WELDING QUALIFICATIONS	ASME SECTION IX

NOTE 1 ASME code U-STAMP is optional.

PARTS LIST AND STANDARD MATERIALS

DESCRIPTION	SPECIFICATIONS
BODY	SA106-B CARBON STEEL (S. STEEL OPTIONAL)
FLANGES	SA105 CARBON STEEL (S. STEEL OPTIONAL)
FITTINGS	SA234-WPB CARBON STEEL (S. STEEL OPTIONAL)
INTERNALS	SA36 CARBON STEEL (S. STEEL OPTIONAL)

UPPER PRESSURE LIMITS (NON-SHOCK)

IFC SERIES	ANSI CLASS	M.A.W.P. PSIG (BARS)	MAX WSP PSIG (BARS)
S600T S600SV	NPT/SW	600 PSIG AT 100°F 41.37 BARS AT 38°C	600 PSIG AT 400°F 41.37 BARS AT 204°C
S150F	150	285 PSIG AT 100°F 19.65 BARS AT 38°C	200 PSIG AT 400°F 13.70 BARS AT 204°C
S300F	300	740 PSIG AT 100°F 51.02 BARS AT 38°C	410 PSIG AT 800°F 28.27 BARS AT 425°C
S600F	600	1480 PSIG AT 100°F 102.04 BARS AT 38°C	825 PSIG AT 800°F 56.88 BARS AT 425°C

NOTE Lower temperature limit is -20°F (-28.9°C)

RECOMMENDED AIR CAPACITIES

OPERATING PRESSURE PSIG								
SIZE	20	40	60	80	100	150	200	
1/2"	20	30	40	55	65	95	125	
3/4"	30	50	65	85	100	145	190	
1"	50	80	105	135	165	240	315	
1-1/2"	120	185	255	325	395	570		
2"	200	310	425	540	655	940		
2-1/2"	280	445	605	770	930	1340		
3"	360	570	780	990	1200	1725		
4"	625	985	1345	1705	2070	2970		
6"	1420	2240	3060	3880	4695	6745		
8"	2460	3880	5300	6715	8135	11685		

(SCFM based on approximately 60 ft/s for 1/2" – 2-1/2" units, and 55 ft/s for 3" – 8" units)

$$\text{Convert SCFM to CFM} = \frac{\text{SCFM} \times (460 + T)}{35.4 \times P_1} : T = ^\circ\text{F} \quad P_1 = \text{psia}$$

RECOMMENDED SATURATED STEAM CAPACITIES

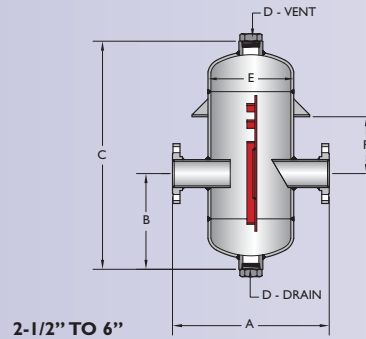
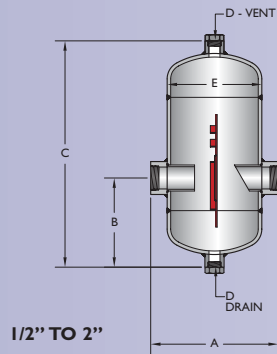
OPERATING PRESSURE PSIG								
SIZE	5	10	25	50	100	150	200	
1/2"	37	46	71	113	195	277	354	
3/4"	66	80	125	199	342	486	622	
1"	107	130	203	323	555	788	1009	
1-1/2"	253	308	480	761	1308	1792		
2"	417	508	791	1255	2156	2953		
2-1/2"	595	725	1129	1791	3076	4214		
3"	919	1120	1743	2766	4751	6507		
4"	1583	1928	3002	4764	8182	11206		
6"	3593	4377	6813	10813	18567	25431		
8"	6222	7579	11798	18723	32151	44037		

(lb/h based on approximately 100 ft/s)

Based on flows and velocity indicated, the pressure drop will be no more than equivalent length of pipe.

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IFC SERIES S150F (ANSI 150LB), S300F (ANSI 300 LB) & S600F (ANSI 600LB) DIMENSIONAL DATA

SIZE in/mm	CONN.	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm	Weight lb/kg
1/2 15	NPT/SW	8.63	5.19	10.63	0.75	6.63	N/A	9.0
		218	132	269	20	168		4.0
3/4 20	NPT/SW	8.75	5.88	12.13	0.75	6.63	N/A	10.0
		222	149	308	20	168		4.5
1 25	NPT/SW	9.25	6.0	14.13	0.75	6.63	N/A	19.0
		235	152	359	20	168		8.6
1-1/4 15	NPT/SW	9.25	7.13	16.25	0.75	6.63	N/A	30.0
		235	180	413	20	168		13.6
1-1/2 40	NPT/SW	11.25	7.63	19.0	1.0	8.63	N/A	43.0
		286	194	482	25	219		19.5
2 50	NPT/SW	11.63	8.13	20.63	1.0	8.63	N/A	50.0
		295	206	524	25	219		22.6
2-1/2 65	ANSI 150	22.50	9.50	24.50	1.0	10.75	7.13	109
		572	241	622	25	273	180	49
	ANSI 300	22.50	9.50	24.50	1.0	10.75	7.13	112
		572	241	622	25	273	180	50.8
	ANSI 600	22.50	9.88	25.63	1.0	10.75	7.13	113
		572	251	651	25	273	180	51
3 80	ANSI 150	25.25	12.00	30.0	2	10.75	7.13	163
		641	305	762	50	273	180	74
	ANSI 300	25.25	12.00	30.0	2	10.75	7.13	169
		641	305	762	50	273	180	77
	ANSI 600	25.3	12.68	30.0	2	10.75	7.13	189
		643	322	762	50	273	180	86
4 100	ANSI 150	29.0	12.63	32.0	2	12.75	8.50	237
		737	320	813	50	324	216	107
	ANSI 300	25.25	12.63	32.0	2	12.75	8.50	256
		641	320	813	50	324	216	116
	ANSI 600	29.0	13.19	32.0	2	12.75	8.50	297
		737	335	813	50	324	216	135
6 150	ANSI 150	36.0	13.0	37.0	2	16.0	10.0	365
		914	330	940	50	406	254	166
	ANSI 300	36.0	13.0	37.0	2	16.0	10.0	401
		914	330	940	50	406	254	182
	ANSI 600	36.0	13.0	37.75	2	16.0	10.0	551
		914	330	959	50	406	254	250
8 200	ANSI 150	42	15.50	48.13	2	20	20.50	445
		1077	394	1223	50	508	521	202
	ANSI 300	4	15.50	48.13	2	20	20.50	490
		1077	394	1223	50	508	521	223
	ANSI 600	42	15.50	48.13	2	20	20.50	671
		1077	394	1223	50	508	521	305