

DESIGN SPECIFICATIONS

- STANDARD SIZES FROM 10" X 6" UP TO 24" X 24".
- DESIGNED FOR DIRECT MOUNTING TO THE SUCTION SIDE OF A PUMP IN EITHER HORIZONTAL OR VERTICAL POSITIONS.
- INTEGRAL STRAIGHTENING VANES REDUCE FLOW TURBULENCE.
- STRAINERS ARE COMPLETE WITH RF FLANGES IN ACCORDANCE WITH ASME B16.5.
- AVAILABLE WITH EQUAL OR REDUCED OUTLET FLANGES.
- WELDED ON SUPPORTING PADS FOR CONVENIENT MOUNTING OF STANDARD I.D. SUPPORT FOOT.
- ALL WELDERS ARE QUALIFIED TO ASME SECTION IX.
- DIFFUSERS DESIGNED TO MEET THE REQUIREMENTS OF ASME B31.1, ASME B31.3 AND/OR ASME SECTION VIII, DIV.1.
- DRAIN CONNECTION FURNISHED WITH PLUG AS STANDARD.
- DIFFERENTIAL CONNECTIONS ARE OPTIONAL.

PARTS LIST AND STANDARD MATERIALS

DESCRIPTION	SPECIFICATIONS	
	CARBON STEEL	STAINLESS STEEL
SHELL	A53 E/B/A106-B	A312
NOZZLES	A53 E/B/A106-B	A312
FLANGES	A105	A182
HEADS	A516-70	A240
COUPLING	A105	A182
PLUG	A105	A182
BASKET (2)	304 SS	304 SS
GASKET (2)	304 SS SPIRAL WOUND	304 SS SPIRAL WOUND
STUD	A193-B7	A193-B8-1
NUT	A194-2H	A194-8

NOTES

1. 304SS diffusers use 304 grade material. 316SS diffusers use 316 grade material. Dual rated material may be used.
2. Recommended spares.

UPPER PRESSURE LIMITS (NON-SHOCK) AND LOWER TEMPERATURE LIMITS (UNLESS OTHERWISE SPECIFIED)

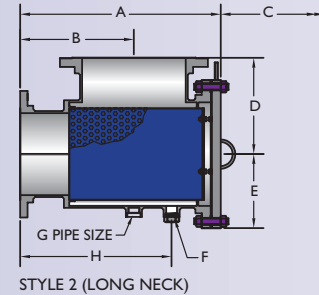
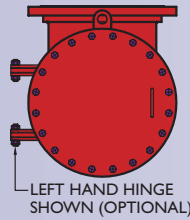
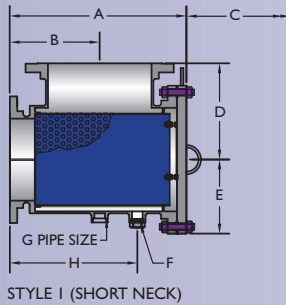
IFC SERIES	BODY MATERIAL	MAXIMUM DESIGN PRESSURE PSIG (BARS) AT °F (°C) (3)	LOWER TEMPERATURE LIMIT M.D.M.T. °F (°C)
SI25FSBW (1)	CARBON STEEL	200 (13.79) AT 150°F (66°C)	-20 (-28.9)
SI25SFSS4BW/SI25FSS6BW (1)	304SS/316SS	200 (13.79) AT 150°F (66°C)	-20 (-28.9)
SI25SFSS4LBW/SI25FSS6LBW (1)	304L SS/316L SS	200 (13.79) AT 150°F (66°C)	-20 (-28.9)
SI25FSBW (2)	CARBON STEEL	150 (10.34) AT 150°F (66°C)	-20 (-28.9)
SI25SFSS4BW/SI25FSS6BW (2)	304SS/316SS	150 (10.34) AT 150°F (66°C)	-20 (-28.9)
SI25SFSS4LBW/SI25FSS6LBW (2)	304L SS/316L SS	150 (10.34) AT 150°F (66°C)	-20 (-28.9)
SI50FSBW	CARBON STEEL	285 (19.65) AT 100°F (38°C)	-20 (-28.9)
SI50FSS4BW/SI50FSS6BW	304SS/316SS	275 (18.96) AT 100°F (38°C)	-20 (-28.9) OPTIONAL -425 (-253.9)
SI50FSS4LBW/SI50FSS6LBW	304L SS/316L SS	230 (15.86) AT 100°F (38°C)	-20 (-28.9) OPTIONAL -425 (-253.9)

NOTES

1. Applies to sizes <12"
2. Applies to sizes >12"
3. All diffusers will be designed to the maximum design pressure unless an alternative design pressure temperature combination is specified. In many cases a cost savings will result if lower design pressures are acceptable.
4. Lower and higher M.D.M.T.s are available upon request.

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IFC SERIES SI25FSBW AND SI50FSBW DIMENSIONAL DATA

SIZE in/mm		A in/mm		B in/mm		C in/mm (1)	D in/mm	E in/mm	F in/mm	G in/mm	H in/mm		Weight Lb./Kg.
INLET	OUTLET	STYLE 1 (1)	STYLE 2	STYLE 1 (1)	STYLE 2						STYLE 1	STYLE 2	
10	6	19.75	24.63	9.75	14.25	16.38	12.63	8.00	1	1	13.75	17.75	261
250	150	502	626	248	362	416	321	203	25	25	349	451	118
10	8	20.38	24.63	10.00	14.25	16.75	12.63	9.50	1	1	14.13	18.38	339
250	200	518	626	254	362	425	321	241	25	25	359	467	154
10	10	20.75	25.50	10.13	14.88	17.00	13.63	10.50	1	1	14.38	19.13	420
250	250	527	648	257	378	432	346	267	25	25	365	486	191
12	8	22.38	27.88	11.0	15.25	18.75	12.88	9.50	1-1/2	1-1/2	15.63	19.88	437
300	200	568	708	279	387	476	327	241	40	40	397	505	198
12	10	22.75	27.50	11.25	16.00	18.88	13.88	10.50	1-1/2	1-1/2	16.00	20.75	530
300	250	578	699	286	406	479	353	267	40	40	406	527	240
12	12	23.38	28.13	11.50	16.25	19.25	15.13	11.75	1-1/2	1-1/2	16.38	21.13	650
300	300	594	714	292	413	489	384	298	40	40	416	537	295
14	10	24.00	28.75	11.88	16.63	20.13	14.00	10.50	1-1/2	1-1/2	16.88	21.63	670
350	250	610	730	302	422	511	356	267	40	40	429	549	304
14	12	24.63	31.13	12.13	18.38	20.50	16.00	11.75	1-1/2	1-1/2	17.38	22.13	808
350	300	626	791	308	467	521	406	298	40	40	441	562	367
14	14	25.00	31.13	12.25	18.38	20.75	16.00	12.50	1-1/2	1-1/2	17.63	22.88	964
350	350	635	791	311	467	527	406	318	40	40	448	581	437
16	12	27.50	31.75	14.00	18.00	22.50	16.50	11.75	2	2	19.00	23.75	913
400	300	699	806	356	457	572	419	298	50	50	483	603	414
16	14	27.00	32.25	13.25	18.50	22.75	16.25	12.50	2	2	19.13	24.38	1089
400	350	686	819	337	470	578	413	318	50	50	486	619	493
16	16	27.75	33.13	13.75	19.00	23.13	17.50	13.75	2	2	19.50	25.00	1280
400	400	706	842	349	483	588	445	349	50	50	495	635	581
18	14	28.50	35.38	14.00	19.58	23.00	17.63	12.50	2	2	20.25	26.00	1058
450	350	724	898	356	498	584	448	318	50	50	514	660	480
18	16	30.00	35.25	14.88	20.13	25.13	17.63	13.75	2	2	21.13	26.63	1256
450	400	762	895	378	511	638	448	349	50	50	537	676	569
18	18	30.38	36.38	14.75	20.75	25.63	19.88	16.00	2	2	21.50	27.50	1572
450	450	772	924	375	527	651	505	406	50	50	546	699	713
20	16	32.25	37.25	15.63	21.13	27.13	20.13	13.75	2	2	22.63	28.13	1452
500	400	819	946	397	537	689	511	349	50	50	575	715	659
20	18	32.50	38.50	15.88	21.88	27.63	20.13	16.00	2	2	23.13	29.13	1793
500	450	826	978	403	556	702	511	406	50	50	588	740	813
20	20	35.88	42.13	16.0	22.25	30.88	23.50	19.38	2	2	24.88	31.13	2560
500	500	911	1070	406	565	784	597	492	50	50	632	791	1161
24	18	36.63	42.63	18.00	24.00	31.63	20.50	16.00	2	2	26.25	32.25	2382
600	450	930	1083	457	610	803	521	406	50	50	667	819	1080
24	20	40.00	46.25	18.13	24.38	34.88	23.88	19.38	2	2	28.00	34.25	3545
600	500	1016	1175	461	619	886	607	492	50	50	711	870	1608
24	24	40.38	47.38	18.50	25.50	34.88	23.88	19.38	2	2	28.38	35.38	3600
600	600	1026	1203	470	648	886	607	492	50	50	721	899	1633

NOTES

- For style 1 suction diffusers outlet bolting cannot be inserted through backside of outlet flange. Bolting must be inserted through backside of outlet connecting flange.
- Dimension C is distance for screen removal.
- Standard screen size is 1/8" perforated plate. Strainers are not supplied with start-up screens

- Strainer covers supplied with lifting lug as standard.
- Other sizes and connection types are available. Consult factory.
- Differential connections are optional.