

### GENERAL NOTE - STRAINERS PRODUCTION

Permanent filter, right angle, suitable for filtering fluids in either the liquid state (water, seawater, petroleum and its derivatives) or the gaseous state (gas, air, chemical products) through a perforated plate filter element placed perpendicular to the direction of flow.

Obtained from an extruded or welded T-joint, it ensures a large surface area for flow and thus offers a high filtration capacity with a low loss of capacity even at high speeds.

The standard equipment includes a screen suitable for high pressures, which is easy to maintain and replace and capable of filtration of more than 300% of the inlet area.

$$\text{OPEN AREA RATIO} = \frac{100 \times \text{Mesh Open Area} \times \text{Screen Area}}{\text{Inlet area}}$$

(The calculations are based on the filtering percentage of the mesh's surface area only.)

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.

Designed and fabricated to ASME VIII Div.1 as standard but can also be supplied to other pressure vessel codes. I.e. ASME B31.3 etc.



#### SIZES

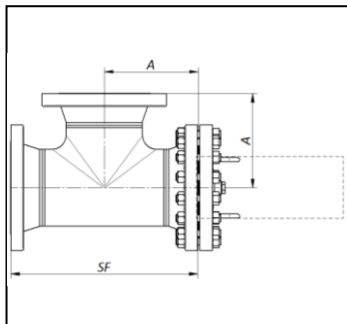
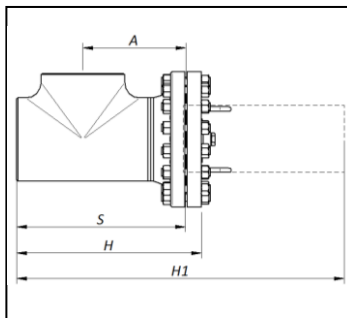
2" - 3" - 4" - 6" - 8" - 10" - 12" - 16" - 18" - 20" - 24"

#### CONNECTIONS

Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5

### GENERAL NOTE - STRAINERS STANDARD PRODUCTION

<b>INSTALLATION</b>	 Internal Flow	 External Flow		
<b>COVER</b>	 Bolted Cover	 Bolted Cover with Hinge	 Bolted Cover with Davit	
<b>DRAIN</b>	 Drain NPT	 Drain Flanged+Blind		
<b>SUPPORT</b>	 Without support	 With support		
<b>BASKET</b>	 Cylindrical			



Size	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
<b>S (mm)</b>	150RF	194	244	288	339	377	460	536	624	687	739	828	909	1018
	300RF	200	253	298	348	386	469	552	640	703	758	847	926	1034
	600RF	209	263	320	371	412	498	593	672	732	796	879	961	1076
	900RF	238	282	333	383	434	526	625	716	779	834	923	1018	1165
	1500RF	238	298	342	412	466	577	694	799	865	930	1022	1126	1279
	2500RF	263	349	409	485	568	682	860	980	-	-	-	-	-
	150RJ	198	249	293	344	382	464	540	629	692	744	832	913	1023
	300RJ	206	260	304	355	393	475	558	647	709	764	853	934	1044
	600RJ	211	265	322	372	413	499	594	674	733	798	880	964	1080
	900RJ	240	284	334	385	436	528	626	718	784	839	929	1024	1174
1500RJ	240	299	344	414	469	582	699	807	874	941	1033	1137	1293	
2500RJ	265	352	414	491	574	690	871	991	-	-	-	-	-	
<b>SF (mm)</b>	150RF	259	316	366	430	468	563	639	741	816	868	969	1055	1173
	300RF	265	325	376	439	477	573	655	757	832	887	989	1072	1189
	600RF	275	335	398	462	503	601	696	788	861	925	1020	1107	1230
	900RF	304	354	411	474	525	630	728	833	908	963	1065	1165	1319
	1500RF	304	370	420	503	557	681	798	915	994	1059	1163	1273	1433
	2500RF	329	421	487	576	658	786	963	1096	-	-	-	-	-
	150RJ	264	321	371	435	473	568	644	745	821	873	974	1060	1178
	300RJ	272	332	382	446	484	579	661	763	838	893	995	1080	1198
	600RJ	276	336	400	463	504	603	698	790	862	927	1022	1111	1235
	900RJ	305	355	412	476	527	631	730	834	913	968	1071	1171	1328
1500RJ	305	371	422	504	560	685	803	923	1003	1070	1174	1284	1447	
2500RJ	330	424	492	582	665	793	974	1107	-	-	-	-	-	
<b>A (mm)</b>	150RF	130	158	183	215	234	282	320	370	408	434	485	528	586
	300RF	136	167	193	224	243	291	336	386	424	453	504	545	602
	600RF	145	177	215	247	269	320	377	418	453	491	536	580	644
	900RF	174	196	228	259	291	348	409	462	500	529	580	637	733
	1500RF	174	212	237	288	323	399	478	545	586	625	679	745	847
	2500RF	199	263	304	361	425	504	644	726	-	-	-	-	-
	150RJ	134	163	188	220	239	286	324	375	413	439	489	532	591
	300RJ	142	174	199	231	250	297	342	393	430	459	510	553	612
	600RJ	147	179	217	248	270	321	378	420	454	493	537	583	648
	900RJ	176	198	229	261	293	350	410	464	505	534	586	643	742
1500RJ	176	213	239	290	326	404	483	553	595	636	690	756	861	
2500RJ	201	266	309	367	431	512	655	737	-	-	-	-	-	
<b>H (mm)</b>	150RF	216	271	316	366	406	492	569	660	726	779	871	955	1070
	300RF	226	285	333	387	427	514	603	695	760	819	911	993	1108
	600RF	245	305	368	425	470	563	666	748	811	882	971	1060	1187
	900RF	280	330	387	444	500	600	704	806	875	933	1035	1136	1314
	1500RF	286	356	406	495	558	679	812	933	1008	1086	1194	1314	1492
	2500RF	324	425	495	587	685	819	1035	1174	-	-	-	-	-
	150RJ	226	281	325	376	415	501	579	669	735	789	880	964	1079
	300RJ	238	298	346	400	439	526	615	707	773	831	923	1009	1127
	600RJ	248	308	371	428	473	566	669	751	814	885	974	1066	1197
	900RJ	283	333	390	447	503	603	707	809	884	943	1047	1149	1333
1500RJ	289	359	409	498	565	688	822	949	1027	1108	1216	1336	1520	
2500RJ	327	431	504	599	698	835	1057	1196	-	-	-	-	-	
<b>H1 (mm)</b>	150RF	528	641	742	869	945	1136	1288	1491	1642	1746	1948	2120	2355
	300RF	543	663	764	891	967	1158	1323	1526	1676	1787	1990	2161	2396
	600RF	553	673	799	926	1009	1206	1396	1580	1724	1853	2044	2221	2469
	900RF	611	711	825	952	1053	1263	1459	1668	1826	1936	2142	2342	2657
	1500RF	610	743	844	1009	1120	1371	1605	1846	2007	2139	2349	2567	2895
2500RF	661	847	984	1164	1329	1587	1948	2215	-	-	-	-	-	

DIMENSION TOLLERANCE		
SIZE TEE	DIMENSION*	
	S	SF & A H & H1
1/2" to 2.1/2"	± 3,2	± 5
3" to 4"	± 3,2	± 5
6" to 8"	± 3,2	± 5
10" to 18"	± 4,6	± 7
20" to 24"	± 4,6	± 7
26" to 30"	± 6	± 8
32" to 48"	± 9,6	± 12

\*S, SF, A, H and H1 are in millimeters (mm)

POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A234 WPB	ASTM A420 WPL6	ASTM A403 WP304	ASTM A403 WP316	
2	Flange	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
3	Blind flange	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
4	Basket	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	X
5	Gasket	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR-316 OR-CS	X
6	Studs	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	
7	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	
8	Drain	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
9	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
10	Davit	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
11	Hinge	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
12	Support	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	

Note 1: Other Materials and Dimensions on Request

Note 2: Detail 10,11 and 12 are optional if required to client.

Note 3: When the Tee material is Stainless Steel, standard accessories Hinge, Davit and Support will be in Carbon Steel material;

#### HOW TO MAKE FACILITIES SERVICES

Usually, the maintenance of the filters should be done once a year or when the pressure drop exceeds the normally expected pressure drop.

Important: check system at least once a month and, if possible, undertake a quick cleaning.

#### HOW TO MAINTAIN:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.
2. Stop the main line to make sure that no residues of dangerous waste fluid could be emitted.
3. Unscrew cover studs(8) and nuts(9), then remove the blind flange(3) and gasket(7).
4. Remove the basket(4), clean the block with compressed air or any other appropriate tools. Inspect thoroughly to check for any damage; if the basket is damaged or deformed, it must be replaced with a new one.
5. Thoroughly clean the inside of the vessel before inserting the filter basket.
6. Install the basket in the body(1).
7. Replace the gasket(7).
8. Reposition the blind flange (3), then screw the studs(8) and nuts(9) of the cover.
9. Slowly start the plant and check if there are any line losses.
10. Apply a label to the filter with the maintenance date.

#### ORDER CODE

i.e. FATE 10" 150RF BW-XS WPB/F304 M3-O6 +DRAIN ¾" NPT

