

## GENERAL NOTE - STRAINERS PRODUCTION

Permanent filter, straight line or 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.

Comprising a cylindrical body with connecting flanges arranged perpendicularly to the filters elements, 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 series of coalescing cartridge filters made of steel or fiberglass, capable of retaining extremely small particles of approximately three microns or 0.003mm.

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.

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

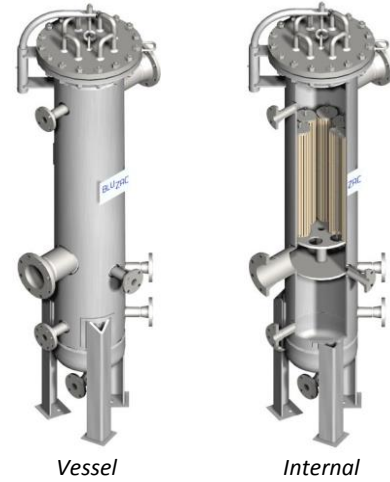
(The calculations are based on the filtering percentage of the mesh's surface area only.)

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

General notes: Standard production filters include: lifting lugs, davit, basket, nuts and bolts, gasket.

Can also be used as a drying filter.










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.

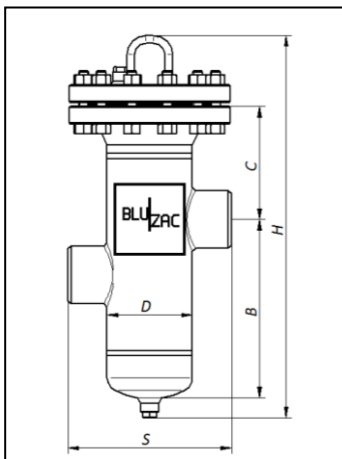
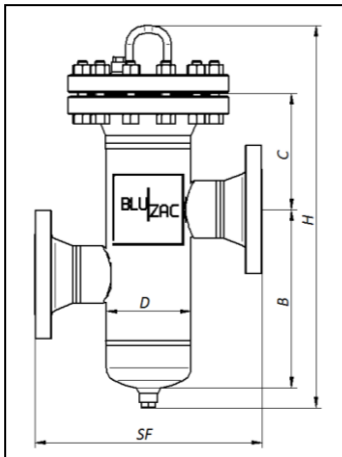


SIZES		
2" - 3" - 4" - 6" - 8" - 10" - 12" - 16" - 18" - 20" - 24"		

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

## GENERAL NOTE - STRAINERS STANDARD PRODUCTION

<b>COVER</b>	 Bolted Cover	 Clamp Connectors	 Bolted Cover with Davit	
<b>DRAIN &amp; VENT &amp; PRESSURE GAUGE</b>	 Drain NPT	 Drain Flanged+Blind	 Drain Valve	 Pressure Gauge
<b>SUPPORT</b>	 Without support	 With leg		



Size	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
<b>D</b>	168	168	168	273	324	356	406	508	609	609	660	660	
<b>S (mm)</b>	300	300	300	450	500	550	600	750	850	900	1000	1150	
<b>SF (mm)</b>	150	400	450	450	600	700	750	850	1000	1100	1100	1250	1400
	300	450	450	450	600	700	750	900	1000	1100	1150	1300	1400
	600	450	450	500	650	750	850	950	1050	1200	1200	1350	1500
	900	500	500	550	700	850	900	1050	1150	1250	1300	1500	1700
	1500	500	550	550	750	950	1050	1200	1350	1450	1500		
	2500	550	650	650	950	1150							
<b>B (mm)</b>	150	350	350	350	500	600	700	800	900	950	1100	1200	1300
	300	350	350	350	500	600	700	800	950	1100	1100	1200	1300
	600	350	350	375	500	650	750	850	1000	1100	1200	1300	1400
	900	350	400	450	600	750	850	900	1000	1100	1200	1300	1400
	1500	400	400	400	550	700	800	900	1100	1300	1300		
	2500	400	400	400	600	700							
<b>C (mm)</b>	150	200	200	200	275	325	350	400	450	550	600	600	650
	300	200	200	225	300	325	450	500	550	600	650	650	750
	600	230	230	250	350	400	500	550	600	650	650	700	800
	900	250	250	250	350	500	550	600	650	750	800	800	900
	1500	300	300	325	500	600	650	700	800	900	950		
	2500	400	400	425	700	800							
<b>Wt (Kg)</b>	150RF	36	38	42	117	152	228	294	395	547	554	875	1350
	300RF	77	86	102	236	365	443	609	935	1405	1523	1895	3186
	600RF	123	137	168	411	509	750	982	1607	2320	2488	3503	4793
	900RF	136	166	192	488	619	905	1152	2206	2839	3193	4082	5634
	1500RF	272	303	402	905	1459	2172	2955	4833	7493	8042		
	2500RF	529	607	676	2012	3052							
<b>Wt (Kg)</b>	150BW	35	36	38	114	144	216	277	366	519	540	841	571
	300BW	67	68	72	185	281	341	446	726	1133	1173	1469	1256
	600BW	109	110	116	313	374	534	702	1219	1825	1885	2710	2238
	900BW	120	137	140	382	464	669	849	1768	2311	2516	3192	2720
	1500BW	243	246	261	721	1131	1612	2104	3676	5981	6086		
	2500BW	481	495	504	1561	2324							

**DIMENSION TOLLERANCE**

SIZE	DIMENSION*		
	S	SF	B C & H
1/2" to 2.1/2"	± 1	± 1	± 5
3" to 4"	± 1	± 2	± 5
6" to 8"	± 2	± 3	± 8
10" to 18"	± 3	± 5	± 8
20" to 24"	± 5	± 7	± 10
26" to 30"	± 8	± 10	± 15
32" to 48"	± 10	± 12	± 20

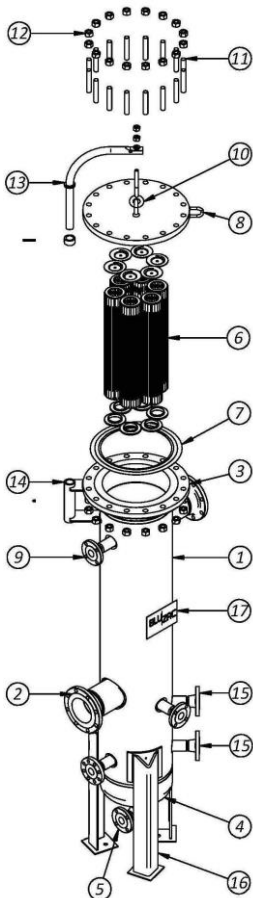
\*S, SF, A, H and H1  
are in millimeters (mm)

POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Pipe Body	ASTM A106 Gr.B	ASTM A333 Gr.6	ASTM A312 TP304	ASTM A312 TP316	
2	Connection flange	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
3	Body flange	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
4	Head	ASTM A234 WPB	ASTM A420 WPL6	ASTM A403 WP304	ASTM A403 WP316	
5	Drain	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
6	Cartridge	AISI 316 and Fiber glass	AISI 316 and Fiber glass	AISI 316 and Fiber glass	AISI 316 and Fiber glass	X
7	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
8	Blind flange	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
9	Vent	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
10	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
11	Stud	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	
12	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	
13	Davit	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
14	Support Davit	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
15	Levels	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
16	Leg	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	

Note 1: Other Materials and Dimensions on Request

Note 2: Detail 12,13 and 15 are optional if required to client.

Note 3: When the Body 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(11) and nuts(12), then remove the blind flange(8) and gasket(7).
4. Remove the cartridge(6), 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 (8), then screw the studs(11) and nuts(12) 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. FCAR 2" 150RF 150RF XS A105/F304 M3-O6 +DR&VT ¾" NPT  
FCAR 2" 150RF BW-XS A105/F304 M3-O6 +DR&VT ¾" NPT

