

GENERAL NOTE - STRAINERS PRODUCTION

The Y filter is the most common and economical type of filter for permanent fluid or gas applications. Thanks to its compact construction, its light weight and its easy access for rapid cleaning, it is used for many generally standard system applications.

Permanent filter, straight line, 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 a machined forged billet, it is available in all standard materials (Carbon steel A105 Stainless Steel A182 F316) and on specific request by the customer in non-standard materials (Duplex S31803, Super Duplex S32750, Inconel, Hastelloy, Cunifer, etc.).

The standard equipment includes a screen suitable for high pressures, which is easy to maintain and replace and capable of filtration of more than 200% of the inlet area.

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 and ASME B16.34 as standard.



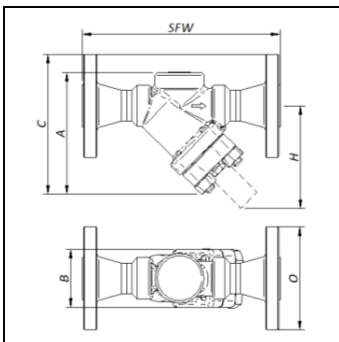
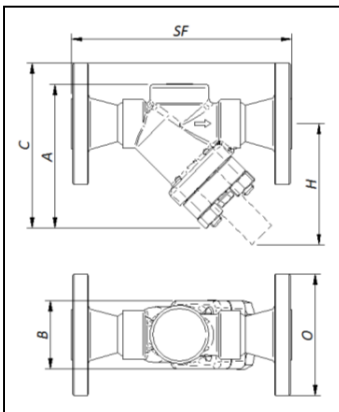
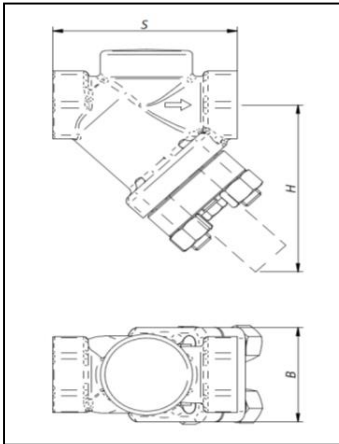
SIZES		
form 1/2" to 2"		
CONNECTIONS		
Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5
Socket Welding	SW	ANSI B16.11
Screwed	NPT BSP	ANSI B1.20.1 ANSI BS21

GENERAL NOTE - STRAINERS STANDARD PRODUCTION

INSTALLATION	 Correct	 Incorrect	 Correct	 Incorrect
CONNECTION	 SW & NPT & BSP & BW	 Flanged fillet weld	 Flanged full weld	
DRAIN	 Drain NPT	 Drain SW		

Y - TYPE STRAINERS

FYFO BC – forged bolted cover



Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"
S (mm)	120	120	120	155	155	155	155
S for BW (mm)	120	120	120	120	120	155	155
A (mm)	148	148	148	189	189	189	189
B (mm)	70	70	70	95	95	95	95
H (mm)	124	124	124	161	161	161	161
SF (mm)	150#	200	205	210	250	255	-
	300#	210	215	220	265	270	-
	600#	220	225	235	280	285	-
	900#	235	250	260	285	310	-
	1500#	235	250	260	285	310	-
SFW (mm)	150#	220	230	235	240	250	300
	300#	230	240	250	255	260	310
	600#	240	250	260	270	275	320
	900#	255	275	285	285	300	375
	1500#	255	275	285	285	300	375
C (mm)	150#	152	157	161	205	210	235
	300#	155	166	169	213	224	241
	600#	155	166	169	213	224	241
	900#	168	172	182	226	235	268
	1500#	168	172	182	226	235	268
O (mm)	150#	89	99	108	117	127	178
	300#	95	117	124	133	156	190
	600#	95	117	124	133	156	190
	900#	121	130	149	159	178	244
	1500#	121	130	149	159	178	244
Wt (Kg)	150#	4,6	5	5,8	10,9	11,5	16,7
	300#	5,4	6,1	7,4	13,1	14,5	18,7
	600#	5,4	6,6	7,4	13,1	14,5	20,9
	900#	7,4	8,8	11,2	16,7	20,3	38,9
	1500#	7,4	8,8	11,2	16,7	20,3	38,9

Note 1: The Y strainers with size 2.1/2" have the possible connection only BW or FLANGED Full weld, isn't possible connection SW, NPT, BSP or FLANGED fillet weld.

DIMENSION TOLLERANCE		
SIZE	DIMENSION*	
	S & SF & SFW	A & B & C & H
1/2" to 2.1/2"	± 1	± 2

Y - TYPE STRAINERS

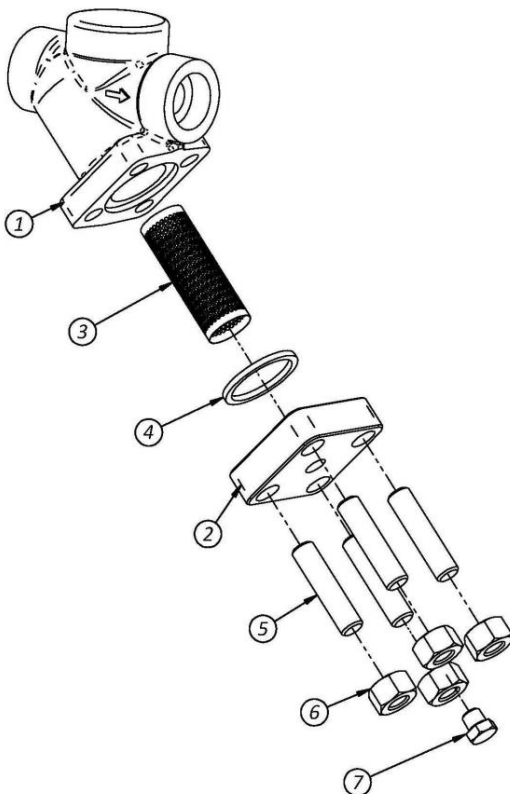
FYFO BC – forged bolted cover

POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316/316L	
2	Cover	ASTM A350 LF2	ASTM A350 LF2	ASTM A182 F316/316L	ASTM A182 F316/316L	
3	Screen	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	X
4	Gasket	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-GraphiteW-316	X
5	Studs	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	
6	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	
7	Plug	ASTM A350 LF2	ASTM A350 LF2	ASTM A182 F316/316L	ASTM A182 F316/316L	

POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A182 F11 Cl.2	ASTM A182 F22 Cl.3	ASTM A182 F53	ASTM A182 F60	
2	Cover	ASTM A182 F22 Cl.3	ASTM A182 F22 Cl.3	ASTM A182 F53	ASTM A182 F60	
3	Screen	AISI 304 or 316	AISI 304 or 316	MONEL 400	AISI 304 or 316	X
4	Gasket	SPW: F-GraphiteW-316	SPW: F-GraphiteW-316	SPW: F-GraphiteW-316	SPW: F-GraphiteW-316	X
5	Studs	ASTM A193 B16	ASTM A193 B16	ASTM A193 B8	ASTM A193 B8	
6	Nuts	ASTM A194 Gr.7	ASTM A194 Gr.7	ASTM A194 Gr.8	ASTM A194 Gr.8	
7	Plug	ASTM A182 F22 Cl.3	ASTM A182 F22 Cl.3	ASTM A182 F53	ASTM A182 F60	

Note 1: Other Materials and Dimensions on Request
Note 2: perforation standard 0,8mm

Note 3: drain standard is 1/4" NPT-F +plug for size ≤ 1"
Note 4: drain standard is 1/2" NPT-F +plug for size ≥ 1.1/4"



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(5) and nuts(6), then remove the cover flange(2) and gasket(4).
4. Remove the screen(3), 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(4).
8. Reposition the cover flange (2), then screw the studs(5) and nuts(6) 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. FYFO 1/2" 150RF BC A105/F316 M40-00,4 +DRAIN 1/4" NPT

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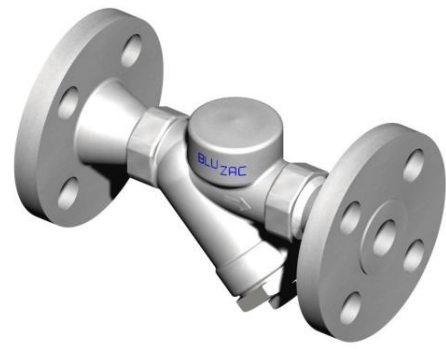
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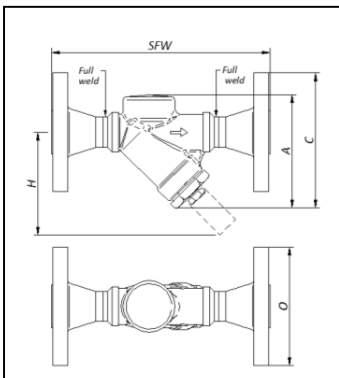
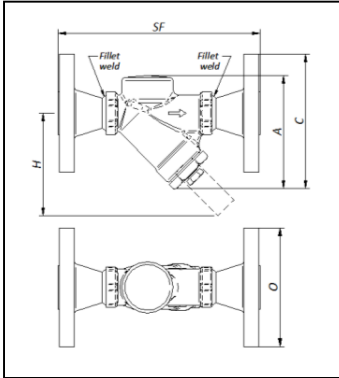
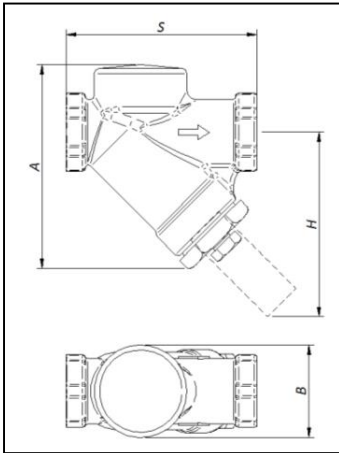


SIZES	
from 1/2" to 2"	

CONNECTIONS		
Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5
Socket Welding	SW	ANSI B16.11
Screwed	NPT BSP	ANSI B1.20.1 ANSI B521

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INSTALLATION	 Correct	 Incorrect	 Correct	 Incorrect
CONNECTION	 SW & NPT & BSP & BW	 Flanged fillet weld	 Flanged full weld	
DRAIN	 Drain NPT	 Drain SW		



Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"
S (mm)	105	105	120	155	155	155	155
S for BW (mm)	105	105	105	120	120	155	155
A (mm)	115	115	136	160	160	160	160
B (mm)	51	51	70	95	95	95	95
H (mm)	102	102	111	161	161	161	161
SF (mm)	150#	200	205	210	250	255	-
	300#	210	215	220	265	270	-
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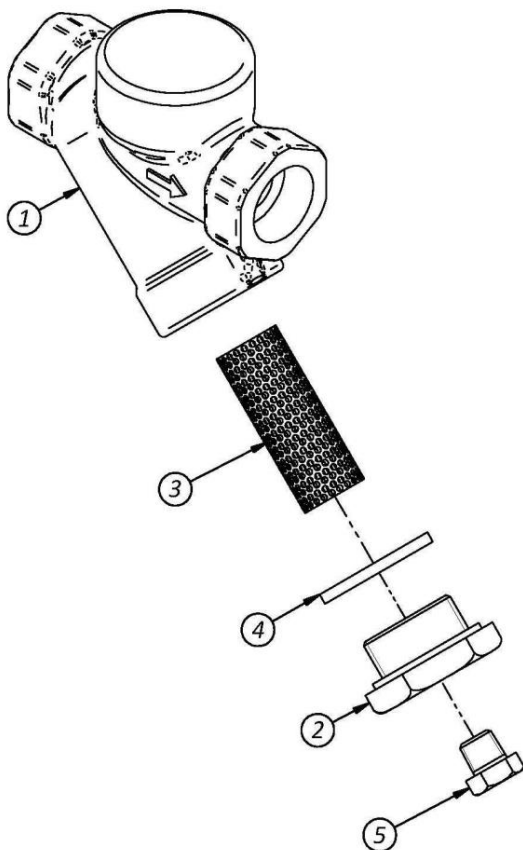
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3	Screen	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	X
4	Gasket	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-Graphite W-316	SPW: F-GraphiteW-316	X
5	Plug	ASTM A350 LF2 or ASTM A182 F316L	ASTM A350 LF2 or ASTM A182 F316L	ASTM A182 F316/316L	ASTM A182 F316/316L	

Note 1: Other Materials and Dimensions on Request
Note 2: perforation standard 0,8mm

Note 3: drain standard is 1/4" NPT-F +plug for size $\leq 1"$
Note 4: drain standard is 1/2" NPT-F +plug for size $\geq 1.1/4"$



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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(4).
8. Reposition the cover (2), then screw it of the body.
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. FYFO 1/2" 150RF SWC A105/F316 M40-00,4 +DRAIN 1/4" NPT