



Pipeline Strainers

Catalogue & Technical Specifications

كواليتي واير پرودكس
QUALITY WIRE PRODUCTS

Single largest source in the Middle East
for all types of Pipeline Strainers



Welcome

Quality Wire Products Company

Quality Wire Products is a single largest source in the Middle East to manufacture and export various types of Pipe Line strainers. We manufacture and export Y Strainer, Tee Strainer, Basket Strainer and Conical Strainer in different metal grades according to the customer requirements.

Our catalog offers Y Strainer, Tee Strainer, Basket Strainer and Conical Strainer in Cast iron, carbon steel, low alloy steel, bronze, stainless steel and special alloys with detailed information, which help customer to identify and order the correct strainer. For a unique configuration or size, unusually high pressure, or a special alloy, we have the capability and experience to economically fabricate a strainer to meet your needs.

The strainers offered by us are designed and conform to the standards of ASME Section VIII. Our Engineering team extends its complete assistance and support to the end customer at all levels in the process of execution of an order.

Besides offering complete strainers we also fabricate and supply the strainer inserts as spare parts for the existing strainers. And our local branches helps in replacing the wire mesh on the broken strainer in case customer delivery and collect the worn out strainers. Repair of worn out strainers are subject to inspection of strainers and availability of manpower at our site locations.

Site installation of strainers, Commissioning of Basket Strainers are offered at additional cost.

Pipe Line Strainers . Basket Strainers . Conical Strainers . Y Strainers . T Strainers . Strainer Inserts

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ
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Pipeline Strainers

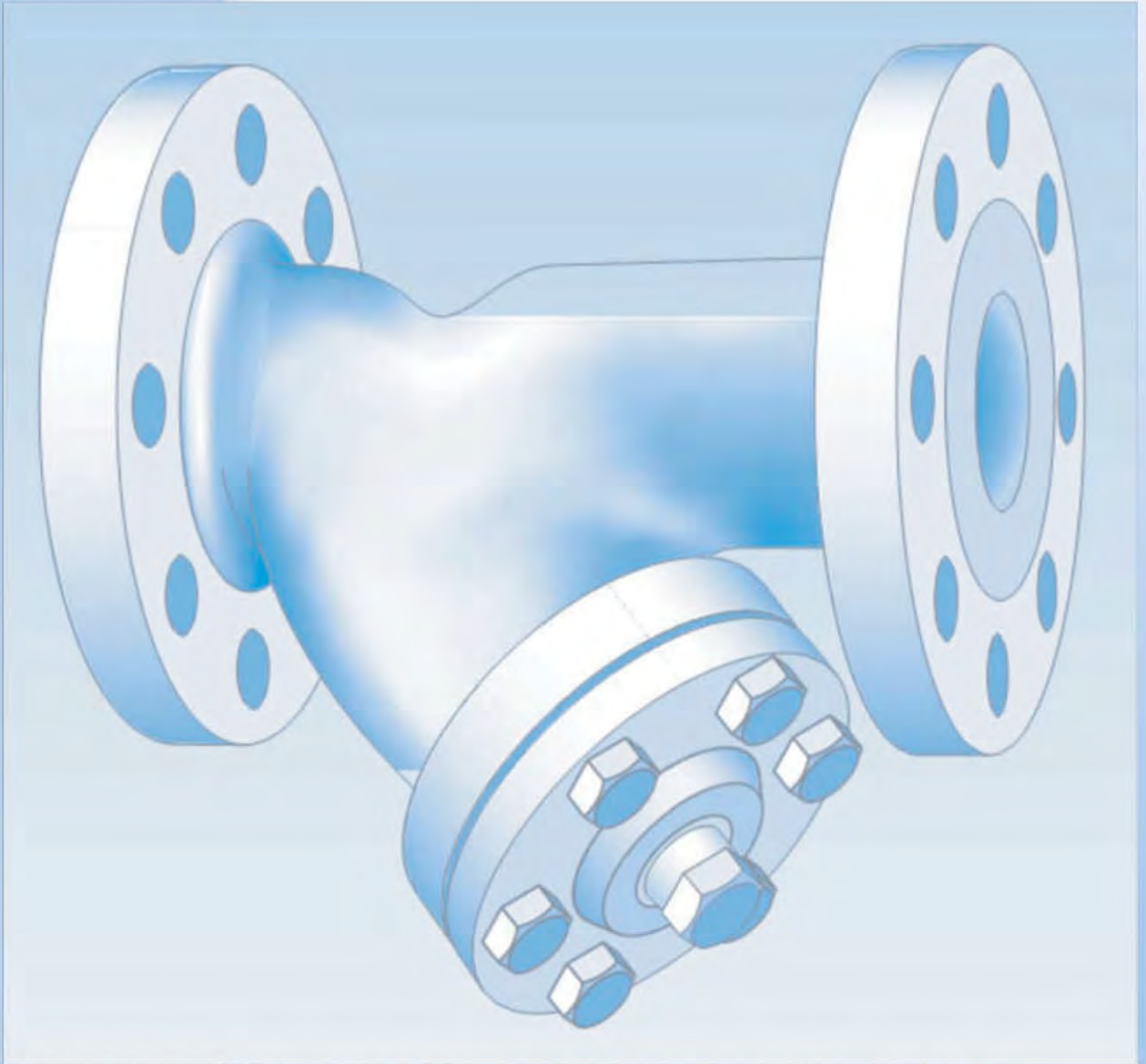
Quality Wire Products

Y STRAINER

TEE STRAINER

BASKET STRAINER

DUPLEX STRAINER

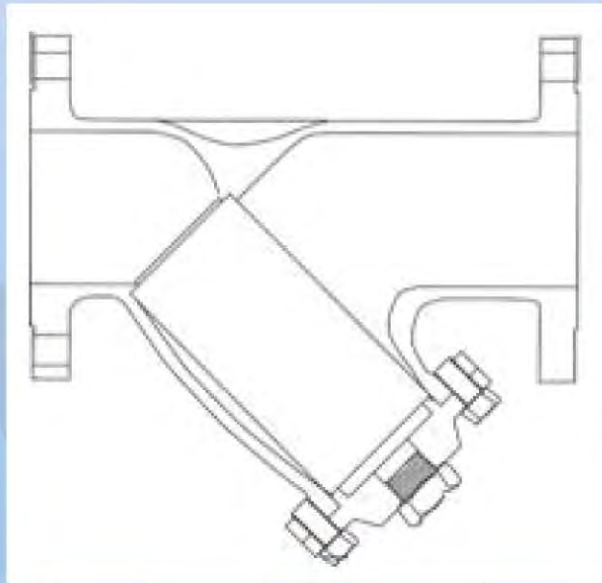


QUALITY WIRE PRODUCTS W.L.L.
SEPARATORS & FILTRATION SOLUTIONS

Y - STRAINER

Design Features:

- These types of strainers are named after their shape and normally used for course filtration but with large filtration area can be used with fine mesh also. Body of Y strainer is normally of cast iron, cast carbon steel or stainless steel in various material grades with flanged end, threaded end, butt weld end and socket weld type end connection. Fabricated Y strainers are also available with high filtration area and less pressure drop.
- 304 SS or 316SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.
- Compact end to end dimension



Manufacturing Size Range:

- 2/1" (15NB) up to 24" (600NB)
- Larger sizes will be fabricated upon request

Pressure Rating of Valve:

- #2500/#1500/#900 / #600 / #300 / #150

End Connection:

- Flanged End to ANSI B 16.5, Class 600 / 300 / 150
- BS 10 Table D / E / F / H
- PN 6 / PN 10 / PN 16 / PN 25 / PN 40 / PN 64
- DIN Standard / JIS Standard / IS Standard
- Screwed - Threaded End to ANSI B 1.20.1
- Socket Weld End to ANSI B 16.11
- Butt Weld End to ANSI B 16.25

Body & Cover

- ASTM A 126 GR. B / IS 210 GR. FG 260/220/200 (Cast Iron) / Ductile Iron / Nodular C.I.
- ASTM A 216 GR. WCB (Cast Carbon Steel)
- ASTM A 351 GR. CF 8 / CF 8M (SS 304 / SS 316)
- ASTM A 351 GR. CF 3 / CF 3M (SS 304L / SS 316L)
- ASTM A 351 GR. CN7M / ASTM A351 Gr. CF8C
- ASTM A351 Gr. CD4Mcu / ASTM A351 Gr. CK3MCuN
- ASTM A352 Gr. LCA / LCB / LCC
- ASTM A217 Gr. WC1 / WC6 / WC9 / C5 / C12
- ASTM A494 Gr. CW6MC / CW2M / CY40 / CU5MCuC
- NACE MR0175 / NACE MR

Standard Screen:

- SS 304 / SS 316
- SS 304L / SS 316L
- Monel 400
- Brass / Alloy 20
- Duplex Steel / Super Duplex Steel

Size Range	Opening
1" - 3"	0.045 inch
4" & Larger	0.125 inch

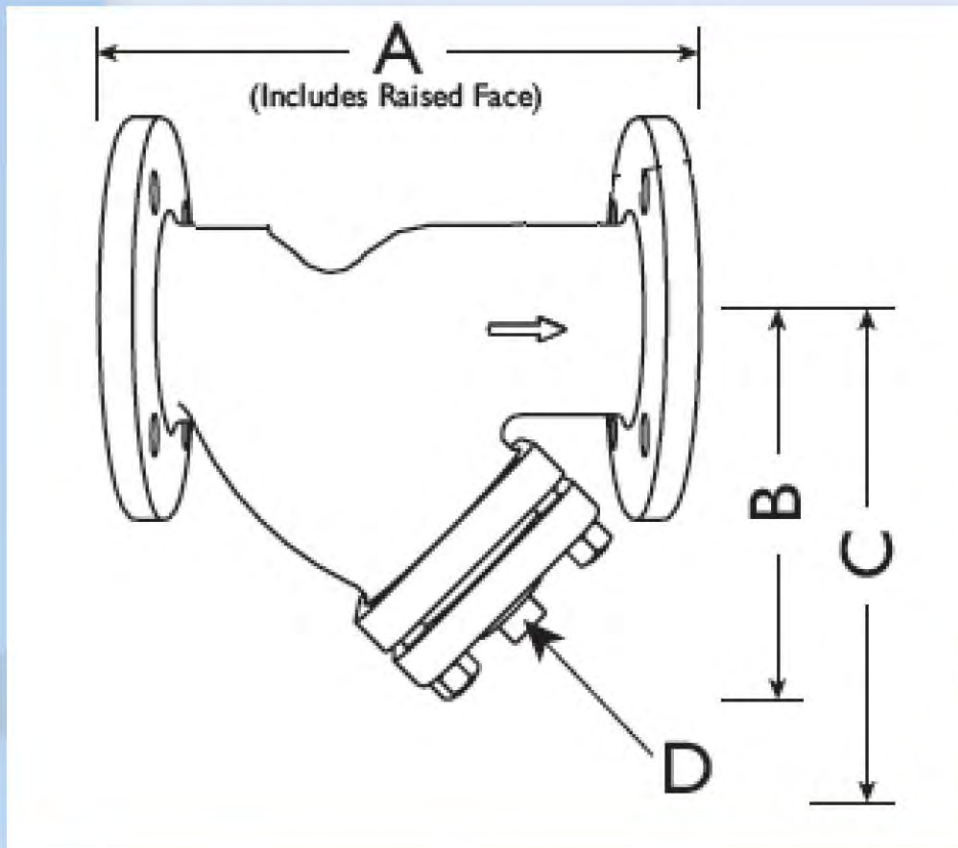
Gasket:

- SS 316/304 Spiral Wound with CAF/Graphite Filled
- Graphite Asbestos wire based
- CAF - Compressed Asbestos Fiber
- Graphite Tensed Gasket
- PTFE

Bolts / Studs & Nuts:

- ASTM A 193 GR. B7 / A 194 GR. 2H
- S.S. 304/316/304L/316L

How To Order:



- 1) Size : _____
- 2) Pressure Rating of Valve: _____
- 3) Required Dimensions : A= ____ ; B= ____ ; C= ____ ; D= ____
- 4) End Connection: _____
- 5) Required Grade: _____
- 6) Body & Cover: _____
- 7) Flange: _____
- 8) Screen: _____
- 9) Gasket: _____
- 10) Bolts/Studs & Nuts: _____
- 11) Painting (Optional): _____

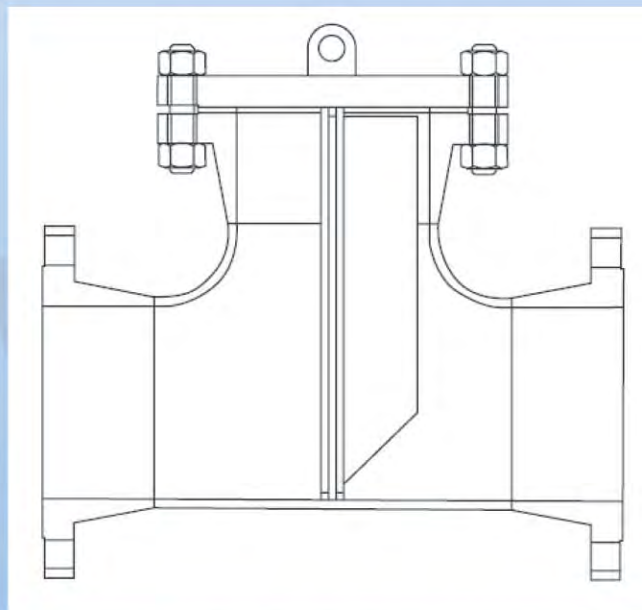


QUALITY WIRE PRODUCTS W.L.L.
SEPARATORS & FILTRATION SOLUTIONS

TEE - STRAINER

Design Features:

- Tee Strainer offers several advantages over other strainer designs. The strainer is very compact, important in applications where space is restricted. Unlike most other strainers, Tee Strainer can be used in both vertical and horizontal installations. A real time saving feature Tee Strainer is that the strainer screen can be cleaned without draining the strainer vessel. QWP Tee Strainer is fabricated to your specification. Optional materials, end connections and accessories are available.
- 304 SS or 316SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.
- Compact end to end dimension



Manufacturing Size Range:

- 2/1" (15NB) up to 24" (600NB)
- Larger Sizes will be fabricated upon request.

Pressure Rating of Valve:

- #2500/#1500/#900 / #600 / #300 / #150

End Connection:

- Flanged End to ANSI B 16.5, Class 600 / 300 / 150
- BS 10 Table D / E / F / H
- PN 6 / PN 10 / PN 16 / PN 25 / PN 40 / PN 64
- DIN Standard / JIS Standard / IS Standard
- Screwed - Threaded End to ANSI B 1.20.1
- Socket Weld End to ANSI B 16.11
- Butt Weld End to ANSI B 16.25

Body & Cover

- ASTM A 126 GR. B / IS 210 GR. FG 260/220/200 (Cast Iron) / Ductile Iron / Nodular C.I.
- ASTM A 216 GR. WCB (Cast Carbon Steel)
- ASTM A 351 GR. CF 8 / CF 8M (SS 304 / SS 316)
- ASTM A 351 GR. CF 3 / CF 3M (SS 304L / SS 316L)
- ASTM A 351 GR. CN7M / ASTM A351 Gr. CF8C
- ASTM A351 Gr. CD4Mcu / ASTM A351 Gr. CK3MCuN
- ASTM A352 Gr. LCA / LCB / LCC
- ASTM A217 Gr. WC1 / WC6 / WC9 / C5 / C12
- ASTM A494 Gr. CW6MC / CW2M / CY40 / CU5MCuC
- NACE MR0175 / NACE MR

Standard Screen:

- SS 304 / SS 316
- SS 304L / SS 316L
- Monel 400
- Brass / Alloy 20
- Duplex Steel / Super Duplex Steel

Size Range	Opening
1" - 3"	0.045 inch
4" & Larger	0.125 inch

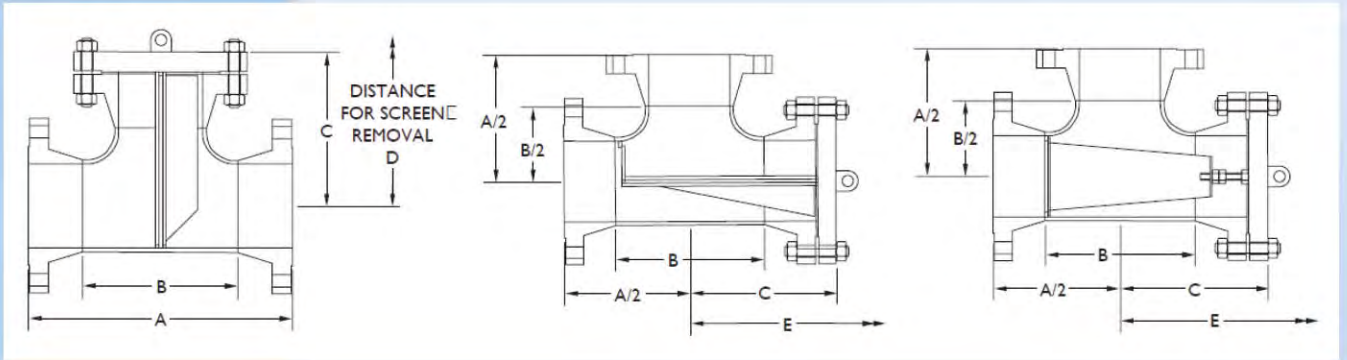
Gasket:

- SS 316/304 Spiral Wound with CAF/Graphite Filled
- Graphite Asbestos wire based
- CAF - Compressed Asbestos Fiber
- Graphite Tensed Gasket
- PTFE

Bolts / Studs & Nuts:

- ASTM A 193 GR. B7 / A 194 GR. 2H
- S.S. 304/316/304L/316L

How To Order:



- 1) Size : _____
- 2) Pressure Rating of Valve: _____
- 3) Required Dimensions : A= ___ ; B= ___ ; C= ___ ; D= ___ ; E= ___
- 4) End Connection: _____
- 5) Required Grade: _____
- 6) Body & Cover: _____
- 7) Flange: _____
- 8) Screen: _____
- 9) Gasket: _____
- 10) Bolts/Studs & Nuts: _____
- 11) Painting (Optional): _____

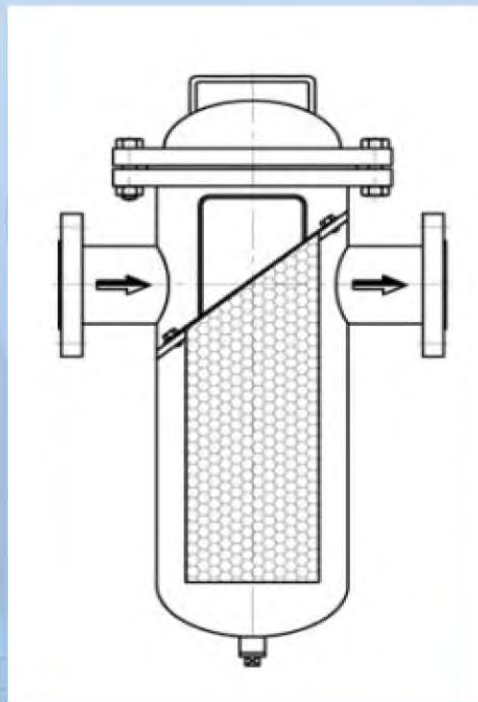
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 SEPARATORS & FILTRATION SOLUTIONS



BASKET - STRAINER

Design Features:

- Basket strainer is used where straining & filtering of a wide variety of fluids, to retain solids of almost any size. All baskets are easily removable & cleanable. The strainer cover is held down by a clamping yoke which is sturdy enough to hold full line pressure and yet, which can be quickly loosened or tightened by hand. Bolted covers are also furnished with basket strainers and they cost less than yoke covers. Basket size can be tailored to hold sufficient solids for the required time between clean-outs. QWP Basket Strainer is fabricated to your specification. Optional materials, end connections and accessories are available.
- 304 SS or 316SS mesh screens are standard. Perforated plate screens are optional.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.
- Compact end to end dimension



Manufacturing Size Range:

- 2/1" (15NB) up to 24" (600NB)
- Larger sizes will be fabricated upon request.

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- BS 10 Table D / E / F / H
- PN 6 / PN 10 / PN 16 / PN 25 / PN 40 / PN 64
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- Screwed - Threaded End to ANSI B 1.20.1
- Socket Weld End to ANSI B 16.11
- Butt Weld End to ANSI B 16.25

Body & Cover

- ASTM A 126 GR. B / IS 210 GR. FG 260/220/200 (Cast Iron) / Ductile Iron / Nodular C.I.
- ASTM A 216 GR. WCB (Cast Carbon Steel)
- ASTM A 351 GR. CF 8 / CF 8M (SS 304 / SS 316)
- ASTM A 351 GR. CF 3 / CF 3M (SS 304L / SS 316L)
- ASTM A 351 GR. CN7M / ASTM A351 Gr. CF8C
- ASTM A351 Gr. CD4Mcu / ASTM A351 Gr. CK3MCuN
- ASTM A352 Gr. LCA / LCB / LCC
- ASTM A217 Gr. WC1 / WC6 / WC9 / C5 / C12
- ASTM A494 Gr. CW6MC / CW2M / CY40 / CU5MCuC
- NACE MR0175 / NACE MR

Standard Screen:

- SS 304 / SS 316
- SS 304L / SS 316L
- Monel 400
- Brass / Alloy 20
- Duplex Steel / Super Duplex Steel

Size Range	Screen Opening
1" - 3"	0.045 inch
4" & Larger	0.125 inch

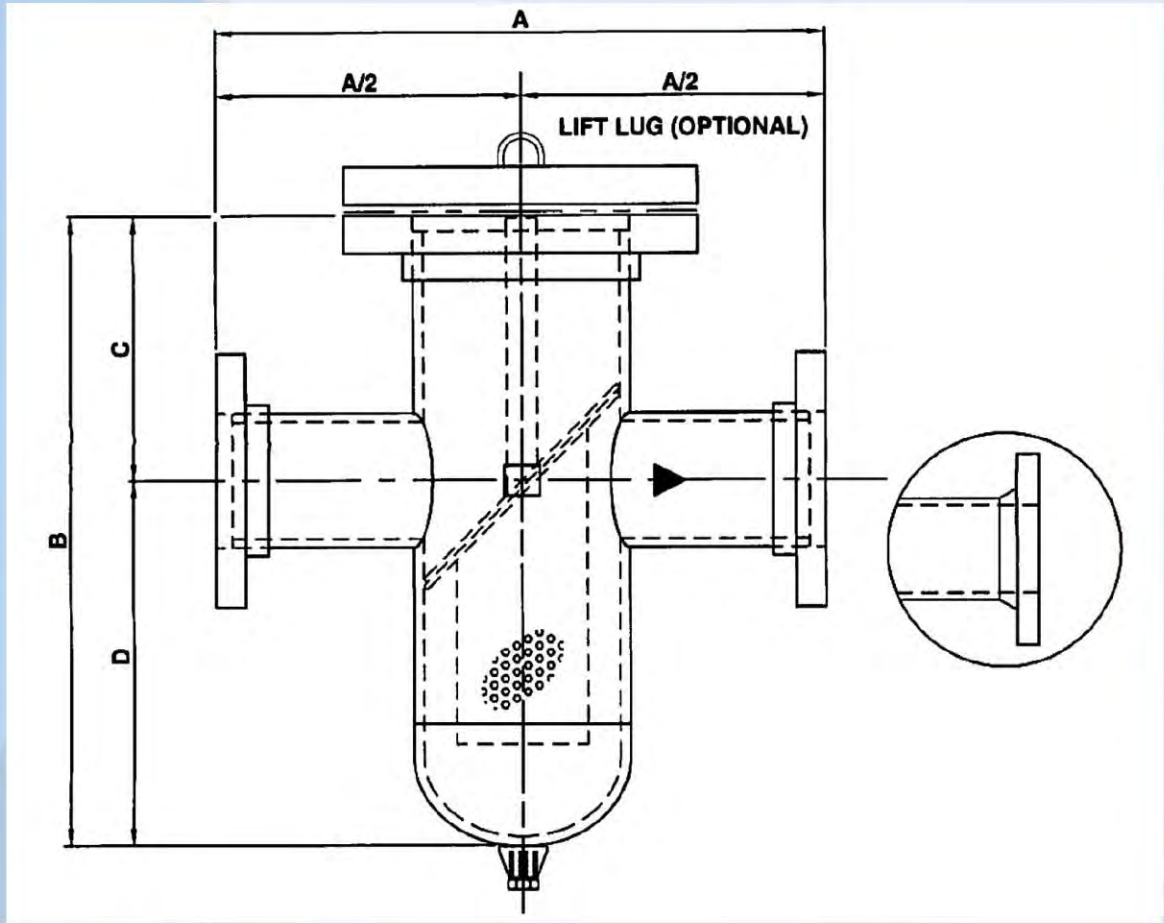
Gasket:

- SS 316/304 Spiral Wound with CAF/Graphite Filled
- Graphite Asbestos wire based
- CAF - Compressed Asbestos Fiber
- Graphite Tensed Gasket
- PTFE

Bolts / Studs & Nuts:

- ASTM A 193 GR. B7 / A 194 GR. 2H
- S.S. 304/316/304L/316L

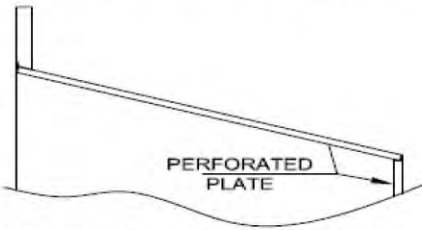
How To Order:



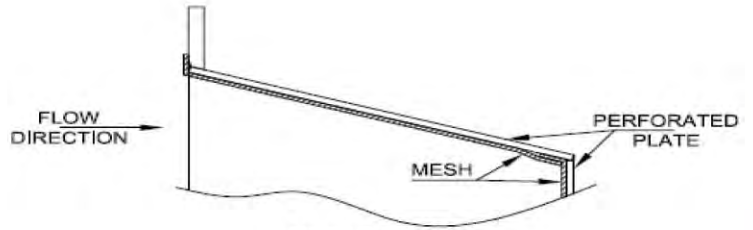
- 1) Size : _____
- 2) Pressure Rating of Valve: _____
- 3) Required Dimensions : A= ___ ; B= ___ ; C= ___ ; D= ___
- 4) End Connection: _____
- 5) Required Grade: _____
- 6) Body & Cover: _____
- 7) Flange: _____
- 8) Screen: _____
- 9) Gasket: _____
- 10) Bolts/Studs & Nuts: _____
- 11) Painting (Optional): _____

CONICAL STRAINERS

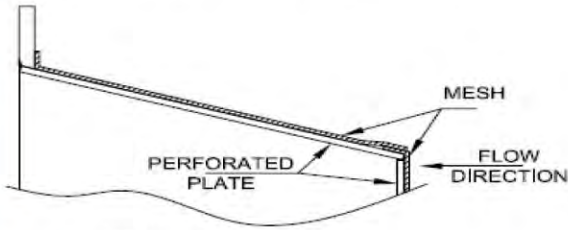
STANDARD CONSTRUCTION DETAILS



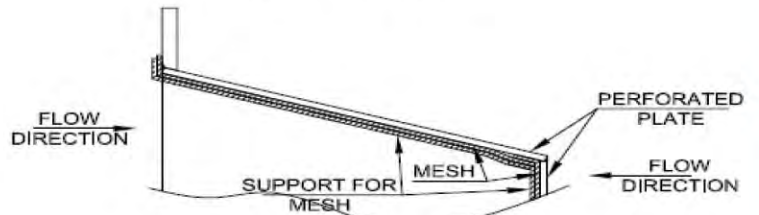
SIMPLE PERFORATED PLATE STRAINER



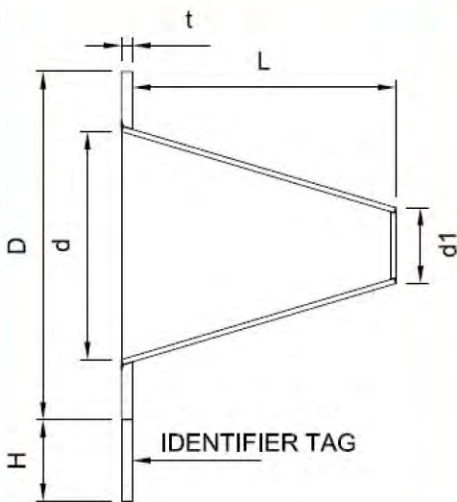
MESH INSIDE
 FLOW INSIDE TO OUT



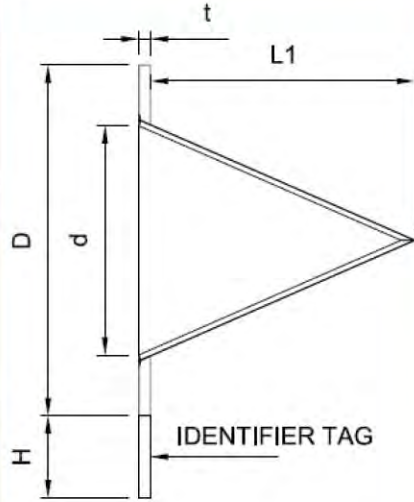
MESH OUTSIDE
 FLOW OUTSIDE TO INSIDE



DOUBLE LINED MESH
 BI - DIRECTIONAL FLOW



BASKET TYPE



CONICAL TYPE

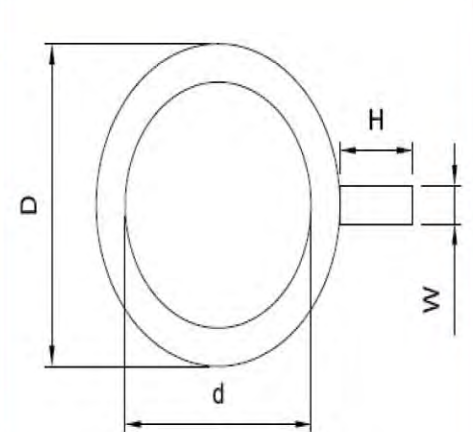
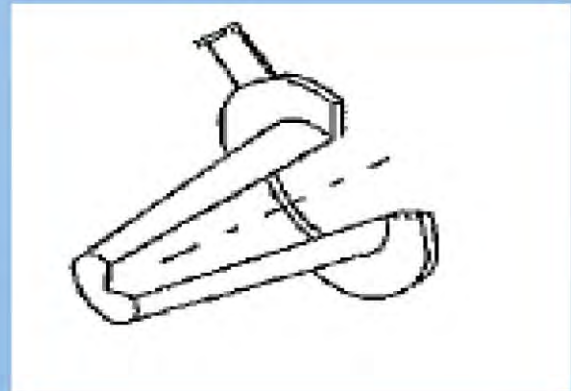


PLATE TYPE



Size In. (mm)	O.D. (D) In. (MM)				I.D. (d) In. (MM)	d1 In. (MM)	BASKET LENGTH (L) In. (MM)				CONE LENGTH (L1) In. (MM)				THICKNESS (t) In. (MM)	
	#300	#600	#900	ISO#			%100	ISO%	%200	%300	%100	ISO%	%200	%300		
	4/3 20	2.13 54	250 64	2.63 67			2.63 67	0.63 16	0.31 8	0.75 19	1.13 29	1.5 38	2.25 57	1.13 29	1.69 43	225 57
1" 25	2.5 64	2.75 70	3 76	3 76	0.75 19	0.38 10	1.13 29	1.69 43	2.25 57	3.38 86	1.63 41	2.5 64	3.31 84	5 127	0.13 3	0.5 0.2
2/1 1" 40	3.25 83	3.63 92	3.75 95	3.75 95	1.25 32	0.63 16	1.80 38	225 57	3 76	4.5 114	219 56	3.38 86	450 114	6.75 171	0.13 3	0.5 0.2
2" 50	400 102	4.25 108	5.5 140	550 140	1.75 44	0.88 22	2 51	3 76	4 102	6 152	3 76	4.5 114	6 152	9.13 232	0.13 3	0.5 0.2
2/21" 65	4.75 121	5 127	6.38 162	6.38 162	2.25 57	1.13 29	2.19 56	3.37 86	4.5 114	6.75 171	3.19 81	5 127	6.69 170	10.13 257	0.13 3	1 0.5
3" 80	5.25 133	5.75 146	6.5 165	6.75 171	2.75 70	1.38 35	2.75 70	4.25 1.08	5.69 145	8.5 216	4 102	6.25 159	8.5 216	12.75 324	0.13 3	1 0.5
4" 100	6.75 171	7.5 191	8 203	8.133 206	3.75 95	1.88 48	3.5 89	5.32 13.5	7.19 183	11 279	5.13 130	7.88 200	10.63 270	17 432	0.13 3	2 0.9
5" 125	7.63 194	9.38 238	9.63 244	9.88 251	4.63 117	2.31 59	4.5 114	6.75 171	9.13 232	14 356	6.5 166	10.13 257	14 356	21 533	0.13 3	2 0.9
6" ISO	863 219	10.37 263	11.25 286	11 279	5.38 137	2.69 68	5.5 140	8.5 216	11.37 289	17 432	8.13 207	13 330	17 432	26 660	0.13 3	3 1.4
8" 200	10.87 276	12.5 318	14 356	13.75 432	7.38 187	3.69 94	7 178	10.69 272	15 381	22 559	10.19 259	16 406	22 559	33 838	0.13 3	5 23
10" 250	13.25 337	16.63 397	17 432	20.37 517	9.38 238	4.69 119	8.63 219	14 356	18 457	27 686	13 330	20 508	27 686	40 1016	0.13 3	7 32
12" 300	16 406	17.87 454	19.5 495	22.62 575	11 279	5.5 140	10.5 267	17 432	22 559	33 838	16 406	24 610	33 838	49 1245	0.13 3	11 5
14" 350	17.37 441	19 483	20.37 517	25.13 638	12.25 311	6.13 156	11.5 292	18 457	24 610	36 914	17 432	27 686	36 914	54 1372	0.13 3	12 5.4
16" 400	20.12 511	21.87 555	22.5 572	27.63 702	14 356	7 178	14 356	21 533	28 711	42 1067	20 508	31 787	41 1041	62 1572	0.13 3	16 73
18" 450	21.25 540	23.75 603	25 635	29.63 753	15.75 400	7.88 200	16 406	24 610	32 813	47 1194	23 584	35 889	47 1194	71 1803	0.13 3	20 9.1
20" 500	23.5 597	26.62 676	27.38 695	35.38 889	17.5 445	8.75 222	17 432	27 686	35 889	53 1346	25 635	39 991	53 1346	79 2007	0.13 3	26 11.8
24" 600	27.87 708	30.87 784	32.88 835	35.38 899	21.25 540	10.63 270	21 533	32 81.3	42 1067	64 1626	30 762	47 1194	63 1600	95 241.3	0.13 3	30 13.6

Strainers are used in Steam, water, oil or gas where protection from foreign matter in a pipeline is required. Perforated Sheets are rolled and formed into a conical shape with additional layers of wire mesh spot welded to the conical strainer. These strainers have the desired open area and are fabricated to withstand the required pressure drop. Additional reinforcements can be made on the strainers if required.

Model	PIPE SIZE in.	D mm	d mm	D' mm	L mm	t mm	H mm	ALLOWABLE PRESSURE DIFFERENCE OVER SCREEN KPa
QWP TYPE 3 & 2	Please specify the above data and we shall fabricate the strainer and supply the same.							

Duplex Strainers



Features

The duplex strainer features four butterfly valves for positive shutoff of one body while the other body continues to filter your flow of liquids. The butterfly valves can be independently operated or can be lined and synchronized using one gear operator to rotate all at the same time. The baskets have a large capacity, which allows longer periods of time between cleanings. The single basket design is easily and quickly cleaned. Standard basket material is stainless steel with special materials available on application.

Installation

1. Position strainer to match flanged connections.
2. When alignment is correct (inlet and outlet headers), flanges can be bolted when appropriate gaskets are placed between the flanges.
3. When the unit is bolted to the pipes, supports to the strainer should be bolted to the floor.

Operation

1. Strainer should be filled with fluid slowly, while venting the air.
2. When the strainer is filled, vents should be closed. Both chambers need to be filled.
3. Rotate hand wheel to the stop. This will permit the inflow to enter only one side leaving the other basket clean and ready to handle the flow should the basket straining become clogged.
4. To change over to the clean basket, rotate the hand wheel in the opposite direction until the stop is contacted.
5. If used, pressure gauges indicate pressure loss. When differential reaches 10 PSI, change to the clean side.
6. When the dirty side basket needs to be removed, the following steps need to be observed:
 - A. After translating the valves to the clean side, the dirty side can be addressed.
 - B. Bleed the pressure from the side containing the dirty basket.
CAUTION: Never attempt to remove cover while vessel contains any pressure.
 - C. Unbolt cover and remove basket. Care should be taken not to damage cover gasket.
 - D. Basket can be cleaned by washing with a hose line. E. Return cleaned basket to strainer immediately and secure cover. This action will make the strainer ready should the other basket become clogged.

Maintenance

1. Keep basket screens clean for best performance.
2. Maintain extra gaskets for blind covers and o-rings for quick open covers.
3. A spare basket screen allows for shorter downtime in production



Service Recommendation

The Duplex strainer is designed for use in fluid handling systems where the flow cannot be shut off for basket cleaning.



Construction

All body parts are made from ASTM A216 GR WCB, ASTM A351 Gr. CD4MCU & ASTM A995 GR 6A. Covers are normally bolted but a quick opening cover can be provided. Options include a lifting davit for the covers as well as stainless steel, carbon steel and other special materials.

