

C.I Y- Type Strainer

V V[®]

Class 125 • S.S Screen • Flanged Ends/ Screwed Ends



Flanged Ends



Screwed Ends

Min. Flow Area 85% To 90 %

V V pipe line strainers are designed and built to afford dependable long lasting protection to a wide variety of mechanical equipment like pumps, burners, nozzles, pressure reducing valves, traps, meters & Turbines, etc.

SPECIAL FEATURES

“V V” Strainers are in demand for many applications where straining is required, due to the following special design features :-

- i. Arc shaped body that is revolved to ensure minimum blockage, less maintenance & less pressure drop with full flow to fluid.
- ii. Fine finish castings to reduce pressure drop.
- iii. Screens are guided in the body.
- iv. Y-Type strainers may be installed in downward vertical lines with effectiveness equal to horizontal installation.
- v. Bodies require long period for cleaning as it has larger cross sectional area & more height.

- vi. Large ratio between the clear area through the strainer and pipe area to limit pressure drop to minimum.
- vii. A wide variety of corrosion resistance screens, available in a wide range of perforations, provide the answer to straining problems.

MATERIALS:

✓ **Strainers body and cover are made in following materials:-**

- a) Cast Iron (IS 210 Gr. FG 200).
- b) Cast Steel (ASTM A 216 GR. WCB).
- c) Stainless Steel (304 & 316).

✓ **Strainer Screens :** There are two types of screens used in strainers:

Perforated screens:- These are formed by punching a large number of holes in a flat sheet of the required material using a multiple punch. The perforated sheet is then rolled into a tube and electric welded together for smooth & permanent joint.

Consequently, perforated screens are only suitable for removing general pipe debris.

Mesh screens:- Fine wire is formed into a grid or mesh arrangement. This is then commonly layered over a perforated screen, which acts as a support cage for the mesh.

Screen can either be perforated sheet or wire woven mesh depending on working conditions.

DIMENSIONS:

The main dimensions of these strainers have been tabulated in Table 1. Inlet and Outlet flanges of the flanged valve shall be as follows:-

C.I ----- ANSI B 16.1 CL-125.

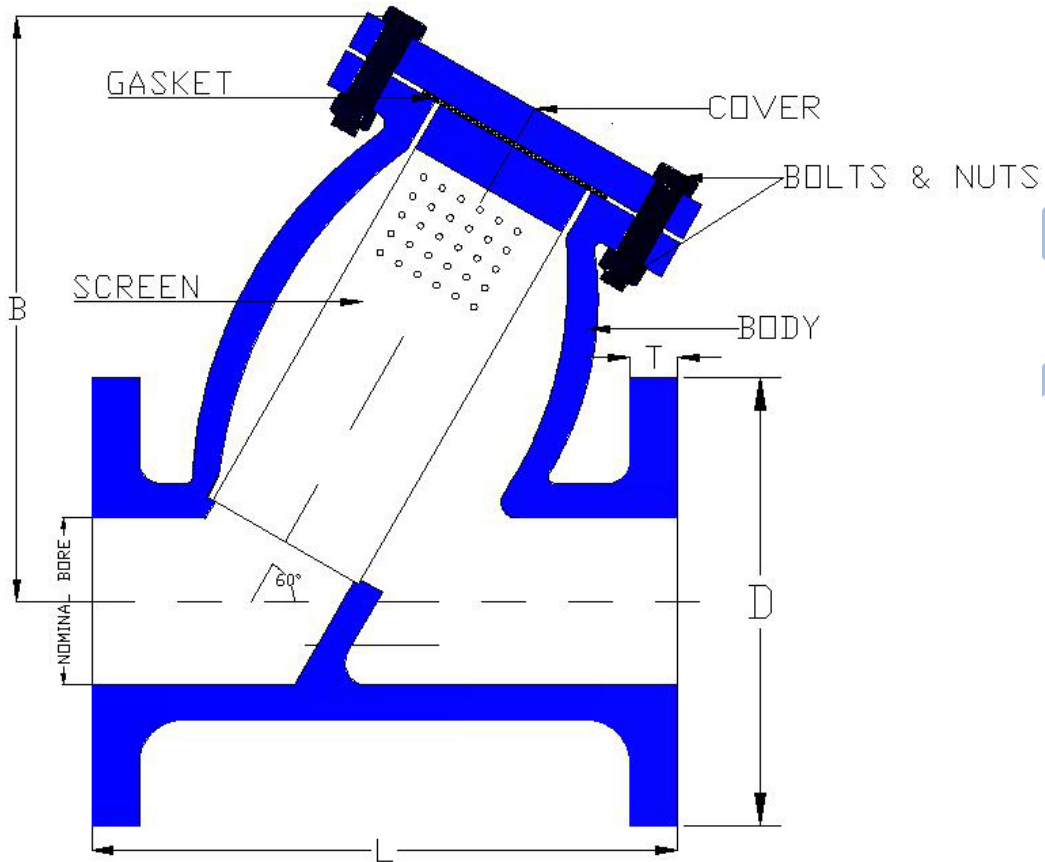
C.S ----- ANSI B 16.5 CL-150 (Raised Face).

Flanges conforming to other flange standards can also be supplied against specific requirements. Screwed ends strainers are supplied with female threaded ends as per IS 554/ BS 21.

PRESSURE/ TEMPERATURE RATINGS:

Pressure/ Temperature ratings of strainer confirm the standards mentioned above in dimensions. The strainers are tested to maximum cold non shock Hyd. Pressure of 20 Kg/cm² for C.I and 30 Kg/cm² for Cast Steel.

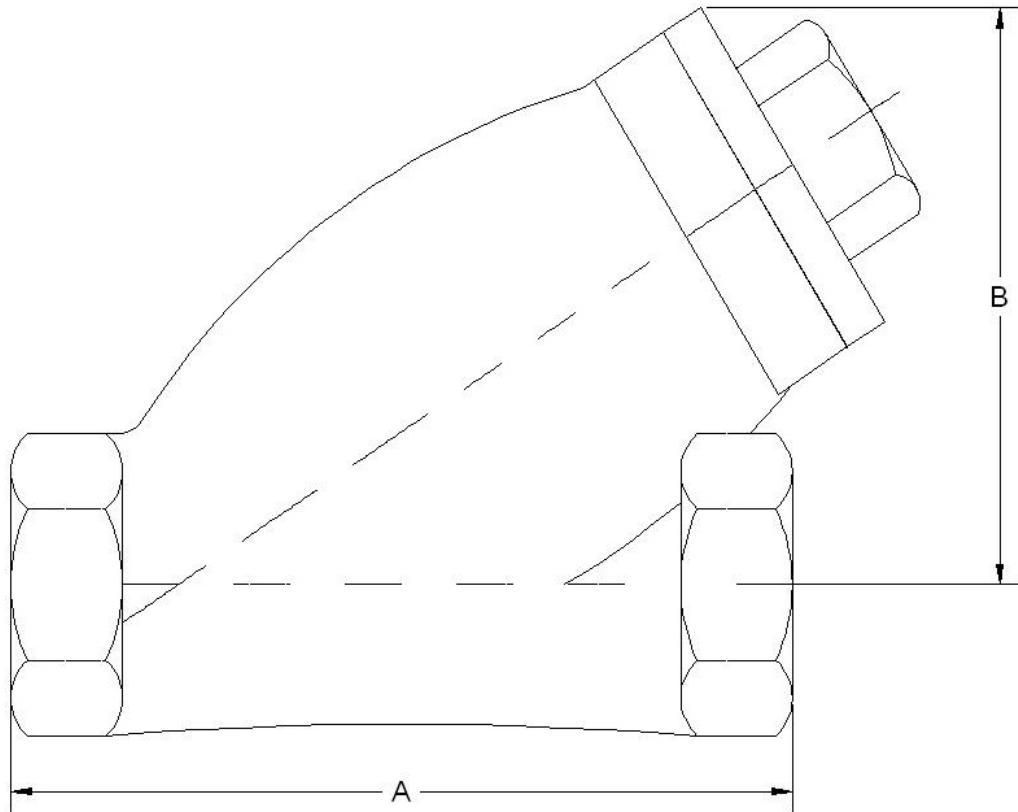
OVERALL DIMENSIONS OF Y-TYPE STRAINERS(FLANGED ENDS)



Dimensions

Nominal Size	Face To Face (L)		Flange Dia. (D)		T (Thickness) min.	H (Appx.)
	inch	mm	inch	mm	mm	mm
½" (15 mm)	6 ¼	160	3 ½	89	14	90
¾" (20 mm)	6 ¼	160	3 7/8	100	14	90
1" (25 mm)	6 ¾	171	4 ¼	108	15	155
1 ¼" (32 mm)	8 ¼	210	4 5/8	118	17	200
1 ½" (40 mm)	8 ¼	210	5	127	17	200
2" (50 mm)	8 3/8	214	6	152	19	220
2 ½" (65 mm)	9 ¾	247	7	178	19	260
3" (80 mm)	10 ½	267	7 ½	190	19	260
4" (100 mm)	15	387	9	228	22	335
5" (125 mm)	16 ½	420	10	254	24	420
6" (150 mm)	17 ¾	450	11	279	27	425

OVERALL DIMENSIONS OF Y-TYPE STRAINERS(SCREWED ENDS)



SIZE	Face To Face A		Height B
	inch	mm	mm
½" (15 mm)	3	76	49
¾" (20 mm)	3 7/8	98	67
1" (25 mm)	5 3/8	137	80
1 ½" (40 mm)	7 ¼	184	130
2" (50 mm)	8 13/16	224	150
2 ½" (65 mm)	10 3/8	263	205

Address:

V.V. Valves Industrial Corporation.

25, Industrial Development
Colony, Jalandhar Road,
Hoshiarpur.(Pb.)-146001.

Contact Person: Er. K.S Rana

Er. Arjun Rana

Phone : 01882-252-207

Fax: 500-289

E-Mail : info@vvvalves.in

Visit Us At : www.vvvalves.in

NOTES

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