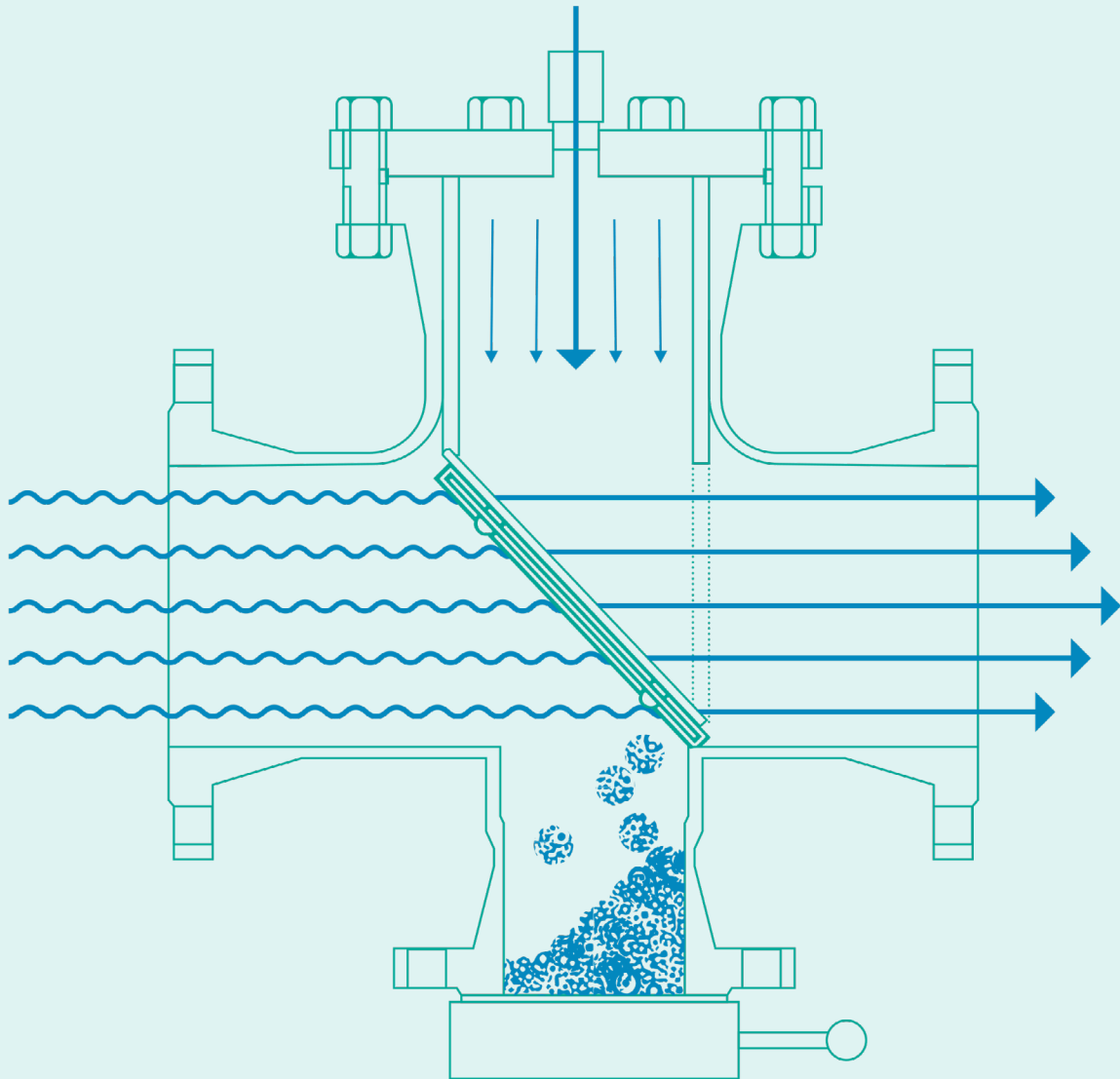




Automatic Strainers



Improves operational efficiency. Reduces fugitive emissions.

Inline Flow Technology's patented strainer design reduces fugitive emissions and downtime associated with a traditional basket strainer.

Eliminates Downtime

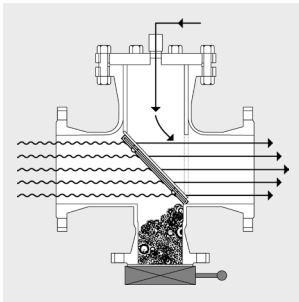
system does not need to be shut down to remove particulate

Reduces the Release of Potential Fugitive Emissions

does not require removal of a cover

Improves Personnel Safety

lifting a cover and heavy basket is eliminated

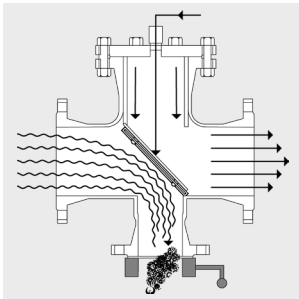


FLOW STRAINING

Particulate is trapped by the inclined low pressure drop screen, and through fluidized action, some of the material falls into the sump below.

With the drain valve in closed position, "recirc" fluid from the pressure head will join the downstream flow.

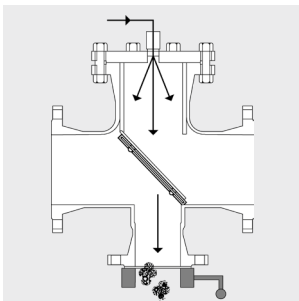
As debris accumulates across the screen face, the differential pressure will rise that can be sensed for manual or automatic cleaning.



DYNAMIC CLEANING

During operation, manual or automatic opening of the drain valve will cause a momentary pressure drop at the screen face by diversion of the principal flow through the sump. The pressure head fluid volume above the screen rear, being fed by the "recirc" pressure downstream, will initially backflush the screen until its energy dissipates.

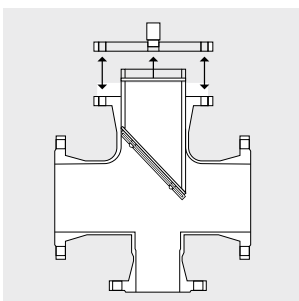
Coupling this backflush with the simultaneous wiping action of the diversionary flow as it turns the corner at the screen front face will cause the accumulated debris to be flushed down and out of the sump.



BACKWASH CLEANING

Soft or fibrous material may occasionally become impacted in the screen perforations and be difficult to remove during operation.

One or more spray nozzles can be placed on the pressure head chamber and can then be used with an auxiliary water supply to pressure backwash the screen. As this initial pressure is contained in the cylindrical housing over the screen, the line should be stopped and the drain valve opened during this operation.



SCREEN REMOVAL

The screen may be easily removed from the strainer body without disturbing or dewatering the line.

Simply taking off the lid flange and pulling out the screen mount will reveal the screen fastened to the slanted face.

MATERIALS OF CONSTRUCTION

ASME CLASSES:

150/300/600/900/1500#

BODY:

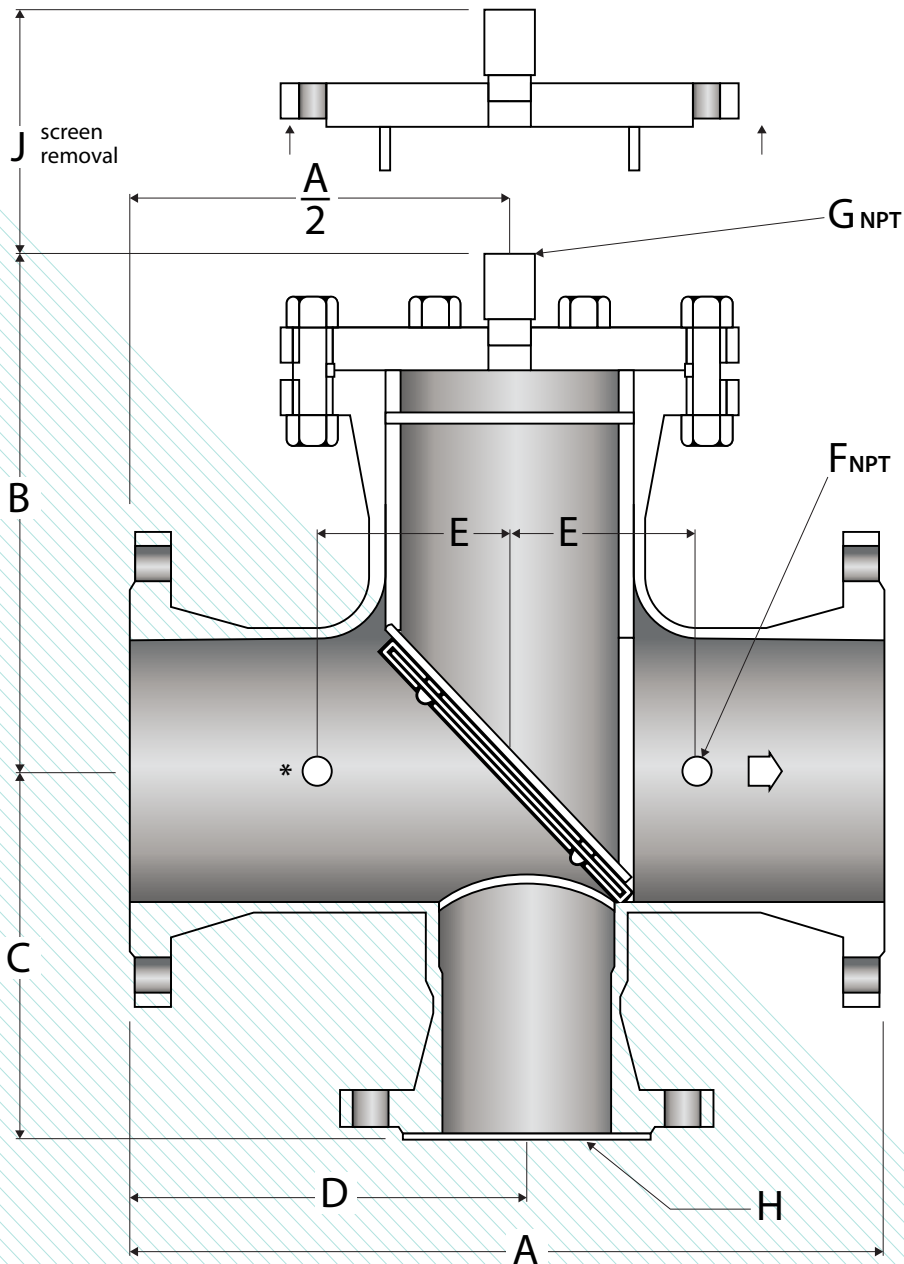
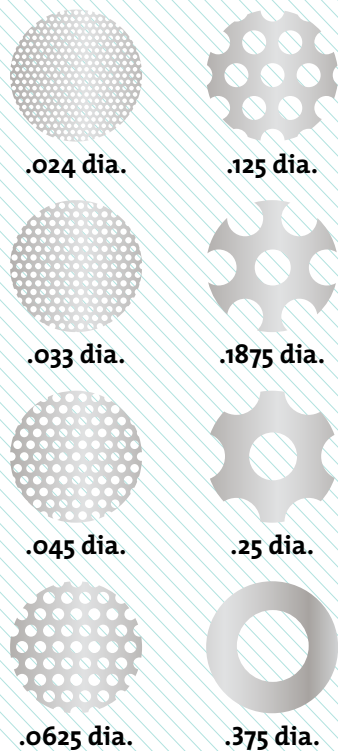
- Forged carbon steel std.
- Stainless steel
- Non-ferrous & non-metallic available

SEAL:

- Buna, Viton
- Metal
- Specials available

SCREEN:

- Stainless steel perforated — sheet standard
- Stainless steel woven wire — mesh available



* Pressure differential sensing ports for alarm or automatic cleaning

DIMENSIONS IN INCHES FOR ASME 150# FORGED CARBON STEEL

ASME B16.47 SERIES A

SIZE	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
A	10	11½	12¼	14¼	16¾	18¼	22	25	29	32	34	38	41⅞	46	54¼	63¾
B	7⅜	8⅝	8⅞	9⅞	11⅜	11⅞	13⅜	15⅜	17⅞	20⅝	21⅞	24	26⅞	29⅞	34½	40¼
C	4⅞	5⅞	5¾	6¾	7⅝	8⅞	9⅞	10⅞	12¼	12⅞	14¾	15¾	17⅞	19⅞	23⅞	26⅞
D	5⅞	5¾	6⅞	7⅞	8⅞	9¾	12⅞	15⅞	17⅞	19⅞	20⅞	23⅞	24¾	29	35¼	43
E	1⅞	2	2⅞	3	3½	4¼	5	6½	8	9	10	11	12	14	18	22
F	¼	¼	¼	¼	¼	½	½	½	½	½	½	½	¾	¾	1	1
G	¼	⅜	½	½	½	¾	¾	1	1	1¼	1½	1½	2	2	2½	3
H	1½	2	2	3	4	4	4	4	6	6	8	8	10	10	12	12
J	5	5¾	6⅞	7⅞	8⅞	9⅞	11	12½	14½	16	17	19	20¾	23	26	34

LIQUID PRESSURE DROP

With a given flow (GPM), the pressure drop of the strainer may be found by entering this figure on the horizontal and reading vertically until the diagonal line indicating the strainer size is intersected and read to the left.

EXAMPLE:

Find pressure drop through 10" strainer at a flow of 1,400 GPM. Enter the figure of 1,400 on the bottom read from the bottom up until intersecting 10" diagonal line, then read to the left. Pressure drop is 1.3 PSI.

OPTIONAL EQUIPMENT

AUTOMATIC CLEANING CONTROL:

Strainers are available with provisions for automatic control of cleaning cycles, thus assuring a truly automatic pipeline cleaning system.

SURGE ARRESTING:

Strainers are available with capabilities for protecting pipelines from the horrendous effects of hydraulic shock and its accompanying "water hammer" effects. (Consult factory for additional information.)

COATINGS AND LININGS:

Strainers are available with coatings and linings for increased corrosion or abrasion resistance. (Consult factory with specific application.)

