



At D-LINE® have dedicated ourselves to provide the highest quality products to meet our customers expectations. D-LINE® “Y” strainers are installed in a piping system to remove unwanted debris from the pipe line, protecting expensive equipment downstream such as pumps, meters, spray nozzles, compressors, and turbines.

They can be placed in a horizontal or vertical pipe line as long as the screen is in a downward position.

Straining is accomplished via an internal perforated or mesh lined straining element, the size of which should be determined based on the size of the smallest particle to be removed. The straining element needs regular cleaning to prevent debris build up.

MATERIAL APPLICATIONS

CARBON STEEL BODY

Performs exceptionally well in high temperatures up to 800 °F. It provides high resistance to shock, vibration, piping strains, and fire and freezing hazard. Carbon steel strainers are often used in the oil and petrochemical industries.

STAINLESS STEEL BODY

Commonly specified for high temperatures service, up to 1000°F. It provides high corrosion resistance. Stainless steel strainers are commonly used for the chemical, food, and pharmaceutical industries.

DESIGN FEATURES

- **LARGE STRAINING CAPACITY**

D-LINE®'s **ST80T** strainer has a large body and sizable straining element that provides excellent open area ratios that are typically 2.5 times than the corresponding pipeline.

- **PRECISION MACHINED SEATS**

Screen seats are precisely machined in both body and cap to ensure accurate positioning of the screen during reassembly after cleaning. Also, the machined body seats enable finer filtration by preventing debris bypass.

- **SELF-CLEANING CAPABILITY**

With a tapped NPT blow-off connection, this unit can be fitted with a blow-down valve which facilitates cleaning of the straining element.

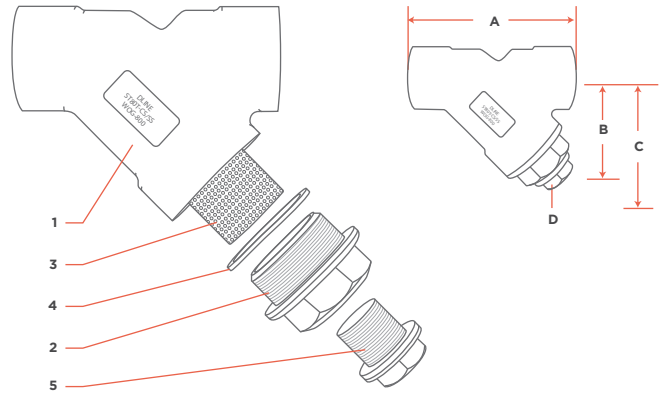
- **GAUGE TAPS DESIGN**

D-LINE®'s **ST80T** have straight threads to permit easy cap removal for cleaning and proper alignment.

DIMENSIONS

MATERIAL LIST (1)			
No.	MATERIAL LIST	ST80T-CS	ST80T-SS
1	BODY	A216 GR. WCB	A351 GR. CF8M
2	COVER	A216 GR. WCB	A351 GR. CF8M
3	STRAINING ELEMENT	SS 304	SS 304
4	GASKET	PTFE	PTFE
5	BONNET	A216 GR. WCB	A351 GR. CF8M
6	PLUG	A105	SS

1. Bill of material represents standard materials, equivalent or better materials maybe substituted at the manufacture's discretion.
2. Denotes recommended spare parts.

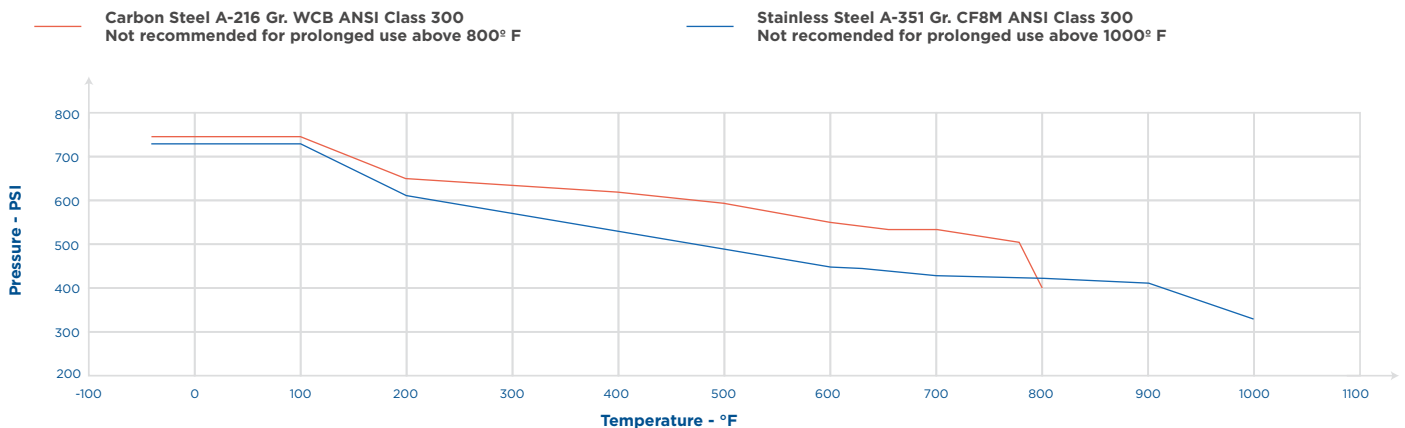


DIMENSIONS & WEIGHTS						
SIZE	A	B	C	D	WEIGHT (KG)	FLOW COEFFICIENT (Cv)
1/4"	2.55	1.57	2.00	0.25	0.20	7
3/8"	2.55	1.57	2.00	0.25	0.20	7
1/2"	2.55	2.00	2.50	0.25	0.20	9.4
3/4"	3.14	2.36	3.25	0.38	0.50	18
1"	3.54	2.83	3.75	0.38	0.70	30
1-1/4"	4.13	3.03	4.25	0.75	0.90	45
1-1/2"	4.72	3.42	4.75	0.75	1.10	63
2"	5.50	4.06	5.50	1.00	1.80	98
2-1/2"	6.69	4.76	6.50	1.00	2.90	130
3"	7.67	5.39	8.00	1.25	4.10	180
4"	9.44	6.65	C/F	C/F	C/F	C/F

1. Dimensions and weights are for reference only.
2. For dimension "A" there is a tolerance of ± 1.6 mm.
3. Dimensions are expressed in inches.

PRESSURE-TEMPERATURE RATINGS

This chart displays the pressure-temperature ratings for the strainer's body material per ASME/ANSI B16.5, Class 300.



REFERENCES STANDARDS & CODES	
CODE	DESCRIPTION
ASME B16.34	VALVE PRESSURE-TEMPERATURE RATINGS
ASME/ANSI B16.11	FORGED STEEL FITTINGS, SOCKET-WELDING AND THREADED
ASME/ANSI B1.20.1	NATIONAL PIPE THREAD TAPER

PRESSURE-TEMPERATURE RATINGS (NON SHOCK)		
CODE	ASTM A-216 GR. WCB	ASTM A-351 GR. CF8M
WOG (NON-SHOCK)	800 PSI @ 100° F	800 PSI @ 100° F

STANDARD SCREEN SELECTIONS				
SIZE	LIQUID	OPEN AREA	STEAM	OPEN AREA
1/4" - 4"	1/16	41%	1/32	28%

LIQUID SCREEN PERFORATION AS STANDARS FOR OTHER SCREEN PERFORATION PLEASE CONSULT FACTORY.