



We 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

### DUCTILE IRON BODY

Excellent strength to weight ratio and provides an exceptional combination of toughness, low cost, manufacturing and reliability. These properties allow ductile iron to be used in industrial applications, automotive components, gear boxes, and many more.

## DESIGN FEATURES

- **EPOXY PAINTED**

All D-LINE®'s **ST12** strainers are epoxy painted to ensure they resist corrosion and rust.

- **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.

- **THREADED COVER**

D-LINE®'s **ST12** have straight threads to permit easy cap removal for cleaning and proper alignment.

- **ENHANCED DESIGN**

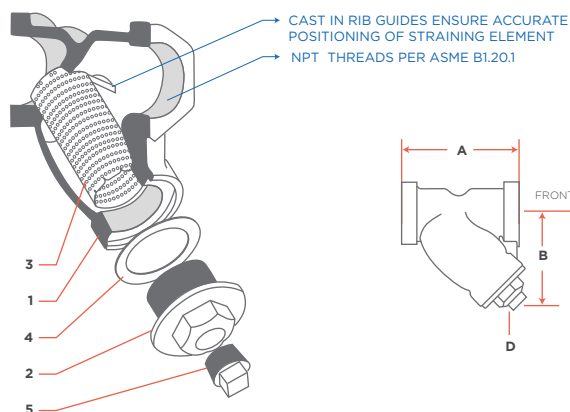
The improved 45° angle in **ST12** strainer provides a stronger casting and a superior wear resistance.

# DIMENSIONS

## BILL OF MATERIAL LIST

No.	MATERIAL	STD12-DI
1	BODY	ASTM A395 DUCTILE IRON
2	CAP	ASTM A395 DUCTILE IRON
3	STRAINING ELEMENT	STAINLESS STEEL
4	GASKET	GRAFOIL
5	NPT PLUG	STEEL

1. All units are epoxy painted.  
 2. Bill of materials represents standard materials, equivalent or better materials maybe substituted at the manufacturer's discretion  
 3. Denotes recommended spare parts.



## DIMENSIONS & WEIGHTS

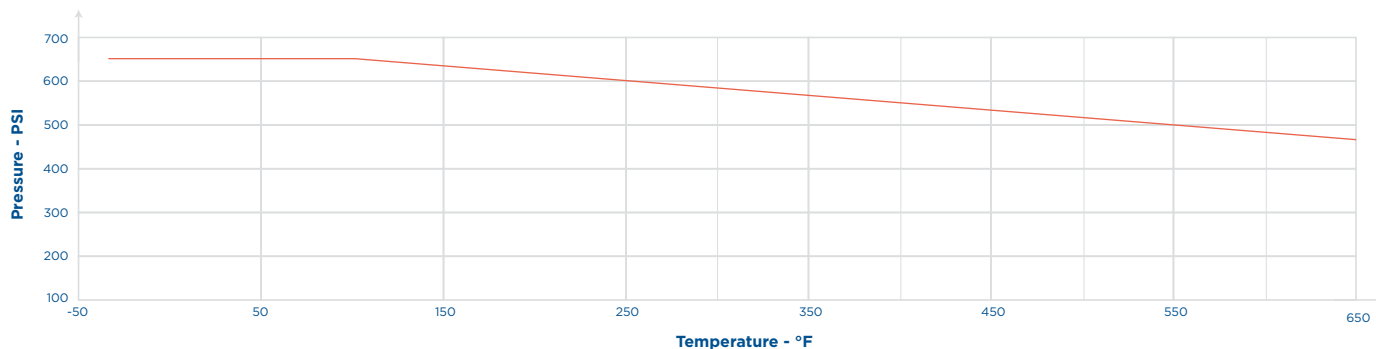
SIZE	A	B	C	D	WEIGHT (KG)	FLOW COEFFICIENT (CV)
1/4"	3.21	2.10	2.70	0.25	0.70	2.00
3/8"	3.21	2.10	2.70	0.25	0.70	2.00
1/2"	3.21	2.10	2.70	0.25	0.60	8.00
3/4"	3.75	3.04	4.05	0.38	1.20	15.00
1"	4.03	3.52	4.85	0.38	1.60	22.00
1-1/4"	5.04	3.71	5.22	0.75	2.40	38.00
1-1/2"	5.81	4.25	6.43	0.75	3.40	42.00
2"	7.04	5.67	8.25	1.00	5.90	70.00
2-1/2"	9.20	7.25	10.97	1.50	11.60	110.00
3"	10.02	7.25	10.97	1.50	12.90	160.00

1. Dimensions and weights are for reference only.  
 2. Dimensions are expressed in inches.

## PRESSURE-TEMPERATURE RATINGS

Ductile Iron ASTM A395  
ANSI Class 300

Source: ASME / ANSI B16.42-1998



### PRESSURE-TEMPERATURE RATINGS

ASME CLASS 300	ASTM A395
WOG (NON-SHOCK)	640 PSI @ 100°F

### REFERENCE STANDARDS & CODES

CODE	DESCRIPTION
ASME B16.42	DUCTILE IRON PIPE FLANGES AND FLANGED FITTINGS

### SCREEN SELECTION GUIDES

SIZE	LIQUID	OPEN AREA	STEAM	OPEN AREA
1/4" - 2"	20 MESH	51.8%	30 MESH	44.8%
2-1/2" - 3"	1/16"(0.0625)	41%	3/64 (0.045)	36%

LIQUID SCREEN PERFORMANCE AS STANDARDS FOR OTHER SCREEN PERFORMANCE PLEASE CONSULT FACTORY.