



We at D-LINE® have dedicated ourselves to provide the highest quality products to meet our customers expectations. D-LINE® “Y” strainers are designed to cover from the most standard application to the most rigorous application industry. **ST61** series offers carbon & stainless steel bodies with 300 series stainless steel straining element to cover the industries demands. Designed to strain elements from liquids, steam, gas and air in order to prevent particles from flowing further downstream and then causing damage to equipment or components of equipment. “Y” strainers can be easily cleaned-out in order to cause much less disruption to the flow.

MATERIAL APPLICATIONS

CARBON STEEL 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.

STAINLESS STEEL BODY

Commonly specified for high temperature 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 **ST61** strainer has a large body and sizable straining element that provides excellent open area ratios that are typically 2.5 times that of 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.

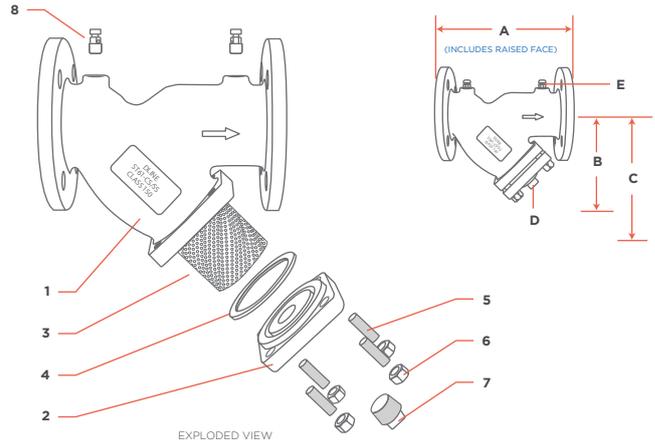
• **GAUGE TAPS DESIGN**

D-LINE®'s **ST61** has convenient gauge taps furnished with a plug on both sides (inlet and outlet) of sizes 2” through 12”. These taps allow for easy installation of pressure gauges to monitor differential.

DIMENSIONS

MATERIAL LIST (1)			
No.	DESCRIPTION	ST61-CS	ST61-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 (2)	SS 304 W/GRAPHITE	SS 304 W/GRAPHITE
5	STUDS	A193 GR. B7	A193 GR. B7
6	NUTS	A194 GR. 2H	A194 GR. 2H
7	NPT PLUG (BLOW-OFF)	CS	SS
8	NPT PLUG (GAUGE TAPS) (3)	CS	SS

1. Bill of material represents standard materials, equivalent or better materials maybe substituted at the manufacture's discretion.
 2. Denotes recommended spare parts.
 3. Part number 8 (NPT PLUG - GAUGE TAPS) are only for sizes 2"-24"



DIMENSIONS & WEIGHTS							
SIZE	A	B	C	D	E	WEIGHT (KG)	FLOW COEFFICIENT (Cv)
1"	7.37	3.75	5.00	0.50	0.25	4.60	C/F
1-1/2"	7.12	4.75	7.00	0.50	0.25	5.70	42
2"	7.87	5.25	7.00	0.50	0.25	9.50	70
2-1/2"	9.75	6.50	9.75	1.00	0.25	14.50	110
3"	10.06	7.00	10.00	1.00	0.25	15.90	160
4"	12.12	8.25	12.00	1.50	0.25	24.90	260
5"	15.62	11.25	20.00	2.00	0.25	40.80	400
6"	18.50	13.50	20.00	2.00	0.25	63.50	570
8"	21.37	15.50	22.75	2.00	0.25	99.70	950
10"	26.00	18.50	28.00	2.00	0.25	161.50	1600
12"	29.87	22.25	30.00	2.00	0.25	292.10	2200
14"	36.00	25.00	36.50	2.00	0.25	453.60	3300
16"	41.75	26.50	42.00	2.00	0.25	494.40	4900
18"	46.00	31.00	45.50	2.00	0.25	1089.00	6100
20"	49.50	39.00	56.00	2.00	0.25	1225.00	8000
24"	58.37	45.00	68.00	2.00	0.25	1515.00	11000

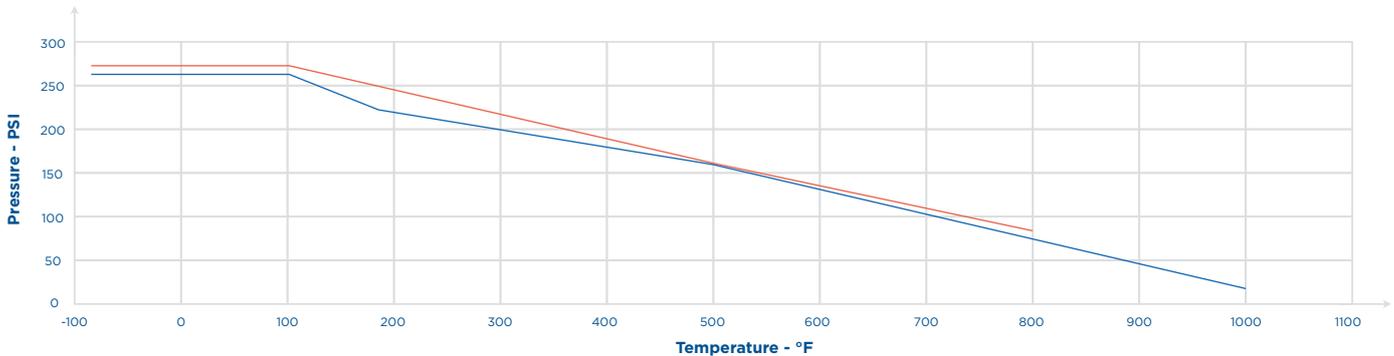
1. Dimensions and weights are for reference only.
 2. Face to face values includes raised face these dimensions have a tolerance of + 0.06 in for sizes 10" & lower for sizes 12" & up +0.12 in.
 3. Dimensions are expressed in inches.

PRESSURE-TEMPERATURE RATINGS

Carbon Steel A216 Gr. WCB ANSI Class 150
 Not recommended for long use above 800° F

Stainless Steel A351 Gr. CF8M ANSI Class 150
 Not recommended for prolonged use above 1000° F

Source: ASME / ANSI B16.1



REFERENCES STANDARDS & CODES	
CODE	DESCRIPTION
ASME B16.34	VALVE PRESSURE-TEMPERATURE RATINGS
ANSI/ASME B16.5	FLANGE DIMENSIONS

PRESSURE-TEMPERATURE RATINGS (NON SHOCK)		
CODE	ASTM A-216 GR. WCB	ASTM A-351 GR. CF8M
WOG (NON-SHOCK)	285 PSI @ 100° F	275 PSI @ 100° F
SATURATED STEAM	150 PSI @ 366° F	150 PSI @ 366° F
MAX LIQUID	80 PSI @ 800° F	20 PSI @ 1000° F

STANDARD SCREEN SELECTIONS				
SIZE	LIQUID	OPEN AREA	STEAM	OPEN AREA
1/2" - 4"	1/16	41%	1/32	28%
5" - 8"	1/8	40%	3/64	36%
10" - 12"	1/8	40%	3/64 MESH	44.8%

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