

# 300Y2 SERIES CARBON STEEL, STAINLESS STEEL Y STRAINERS FLANGED, BUTTWELD

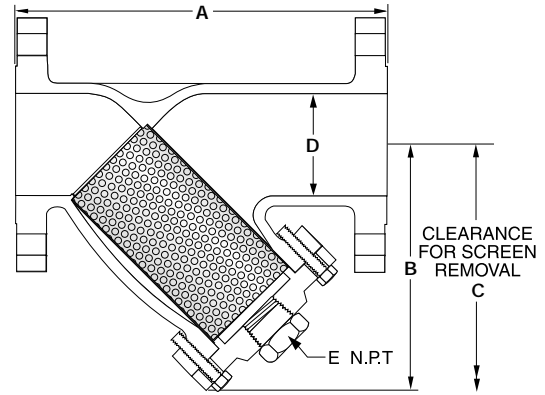
## SPECIFICATION

Y Strainer shall be straight flow design with RF Flanged or Buttweld inlet/outlet connections. The strainer shall be rated to ANSI 300 PSIG rating in accordance with ANSI B16.5 or ANSI B16.25. The Strainer shall be Cast Carbon Steel or Stainless Steel body and the screen shall be size \_\_\_\_\_ perf 304 SS. The strainer shall have an inlet size of \_\_\_\_\_ and Open Area Ratio of \_\_\_\_\_. The Y Strainer shall be SSI 300Y2 Series.

## MATERIALS OF CONSTRUCTION\*

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen <sup>1</sup>	304 SS	304 SS
Plug <sup>2</sup>	A105	A182-316
Gasket <sup>1</sup>	304 SS Spiral Wound	304 SS Spiral Wound
Stud	A193-B7	A193-B8-1
Nut <sup>2</sup>	A194-2H	A194-8

1. Recommended Spare Parts
  2. Materials of equivalent strength may be substituted
- \* Low Carbon Steel Available on request. Consult Factory



Connections:  
CS - 1/2" to 12"  
RF Flanged or Buttweld<sup>3</sup>  
SS - 1/2" to 12"  
RF Flanged or Buttweld<sup>3</sup>

3. For Buttweld connections please specify pipe schedule.

## SCREEN OPENINGS

SIZE	STANDARD SCREEN	MATERIALS
1/2" - 1 1/2"	1/32" Perf	304 SS
2" - 3"	3/64" Perf	304 SS
4" - 12"	1/8" Perf	304 SS

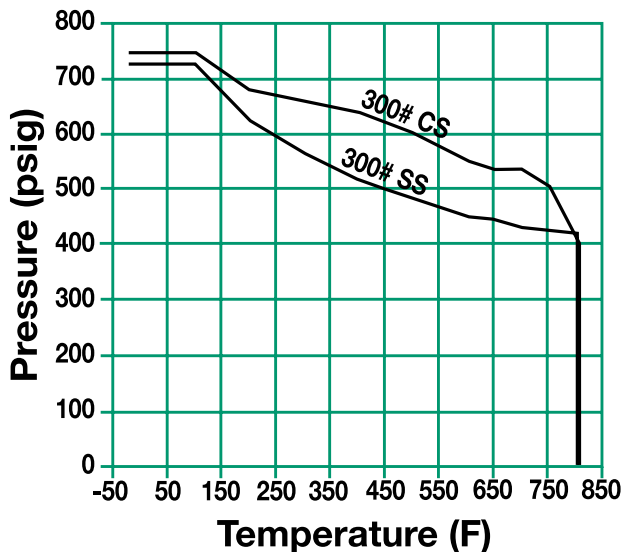
## DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	A	B	C	D	E	WEIGHT
1/2 (15)	6 1/2 (165)	4 1/4 (108)	5 3/4 (146)	1/2 (13)	3/4 (8)	8 (3.6)
3/4 (20)	7 3/4 (197)	5 (127)	6 3/4 (171)	3/4 (19)	5/8 (10)	14 (6.4)
1 (25)	7 7/8 (200)	5 1/2 (140)	8 3/8 (206)	1 (25)	1/2 (15)	15 (6.8)
1 1/2 (40)	10 1/2 (267)	7 (178)	10 1/4 (260)	1 1/2 (38)	1/2 (15)	32 (15)
2 (50)	9 (229)	5 1/16 (145)	8 (203)	2 (51)	1/2 (15)	25 (11.4)
2 1/2 (65)	10 3/8 (276)	7 3/16 (183)	10 1/4 (260)	2 1/2 (64)	1 (25)	38 (17.3)
3 (80)	12 3/8 (320)	8 1/2 (207)	11 1/2 (292)	3 (76)	1 (25)	56 (25.5)
4 (100)	14 3/8 (372)	9 3/8 (245)	13 3/8 (346)	4 (102)	1 1/2 (40)	90 (40.9)
5 (125)	18 3/8 (470)	15 3/8 (391)	21 1/2 (546)	5 (127)	2 (50)	180 (82)
6 (150)	19 3/4 (502)	15 (381)	21 1/2 (546)	6 (152)	2 (50)	203 (92.3)
8 (200)	25 (635)	16 1/2 (419)	22 (559)	8 (203)	2 (50)	323 (146.8)
10 (250)	27 3/8 (702)	21 3/8 (538)	30 (762)	10 (254)	2 (50)	571 (259.6)
12 (300)	32 3/8 (835)	24 3/8 (617)	34 3/8 (873)	12 (305)	2 (50)	893 (405.9)

Dimensions shown are subject to change.  
Contact factory for certified prints when required.

300Y2 SERIES  
STRAINERS

PRESSURE/TEMPERATURE CHART  
ANSI B16.34



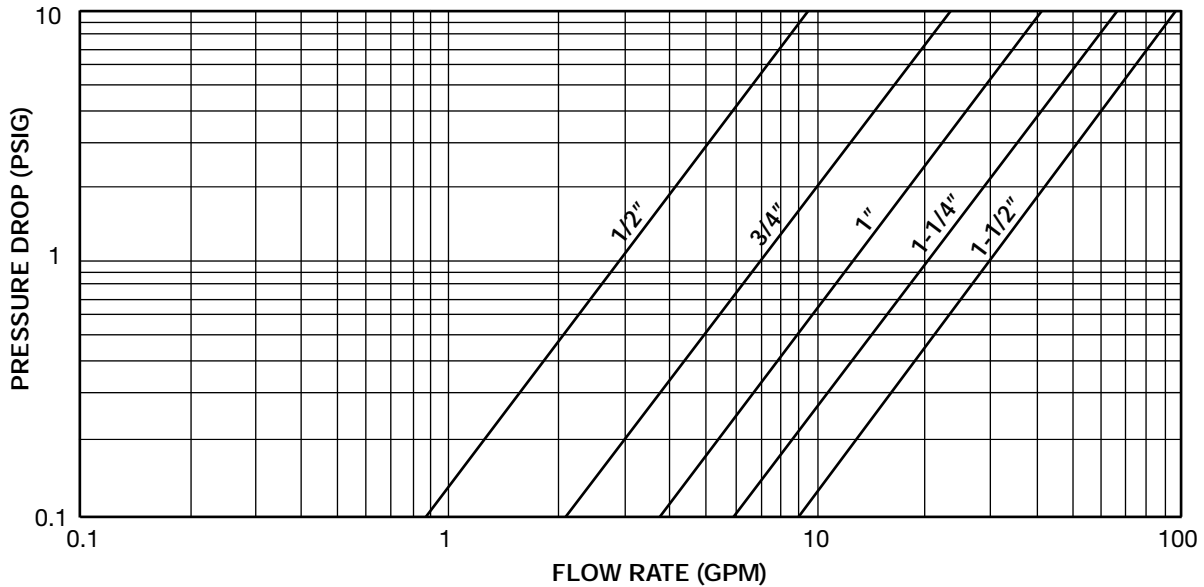
# 300Y SERIES

## CARBON STEEL, STAINLESS STEEL

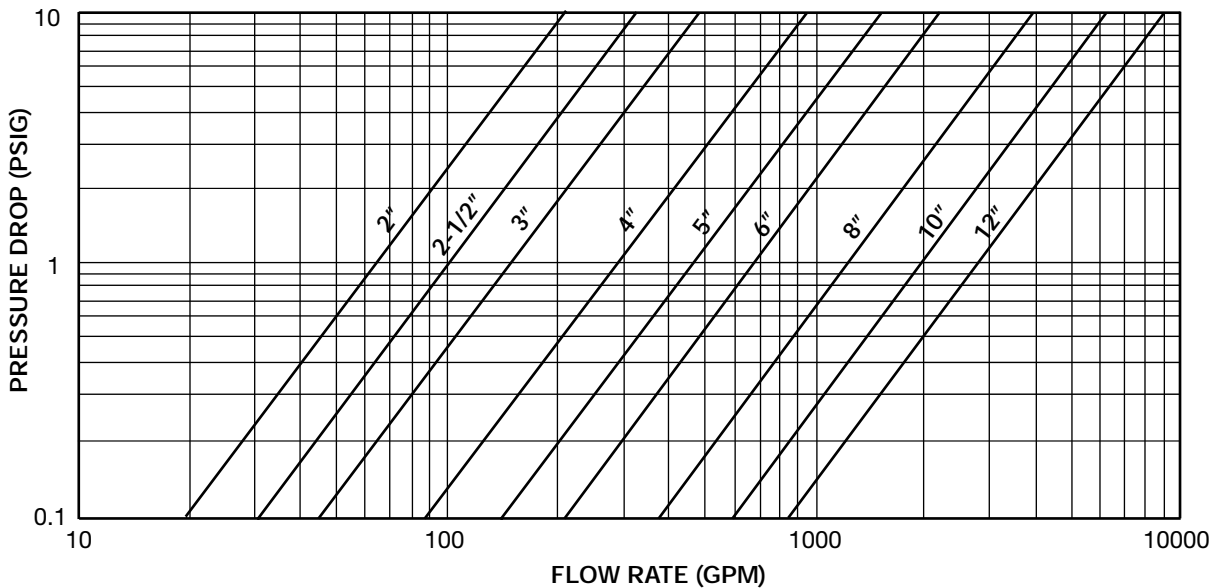
### PRESSURE DROP VS FLOW RATE

Water Service, Clean Basket, 1/32" - 1/4" Perforated Screen\*

(Sizes 1/2" - 1 1/2")



(Sizes 2" - 12")



\* For Gas, Steam or Air service, consult factory.

300Y SERIES  
STRAINERS

Steam Service Pressure Drop  
Page 433

Correction Factors for Other Viscous  
Liquids and/or Mesh Liners Page 432

Correction Factors for  
Clogged Screens Page 432

# 300Y SERIES

## CARBON STEEL, STAINLESS STEEL

### OPEN AREA RATIOS

with Standard Perforated Screen

#### 300Y1 Carbon Steel, Stainless Steel

Size	Perf. Diameter (mm <sup>2</sup> )	Opening %	Std Pipe Inlet Area (in <sup>2</sup> )	Gross Screen Area (in <sup>2</sup> )	Free Screen Area (in <sup>2</sup> )	Open Area Ratio (OAR)
½	1/32	28	0.30	3.2	1.13	3.7
¾	1/32	28	0.53	5.1	1.80	3.4
1	1/32	28	0.86	8.1	2.82	3.3
1¼	1/32	28	1.50	10.2	3.56	2.4
1½	1/32	28	2.04	14.6	5.10	2.5
2	1/32	28	3.36	21.2	7.41	2.2
2½	3/64	36	4.79	37.0	12.94	2.7
3	3/64	36	7.39	47.6	16.66	2.3

#### 300Y2 Carbon Steel, Stainless Steel

Size	Perf. Diameter (inches)	Opening %	Flange Inlet Area (in <sup>2</sup> )	Gross Screen Area (in <sup>2</sup> )	Free Screen Area (in <sup>2</sup> )	Open Area Ratio (OAR)
½	1/32	28	0.20	6.8	1.91	9.7
¾	1/32	28	0.44	10.4	2.92	6.6
1	1/32	28	0.79	15.3	4.27	5.4
1½	1/32	28	1.77	32.5	9.11	5.2
2	3/64	36	3.14	28.7	10.35	3.3
2½	3/64	36	4.91	48.1	17.32	3.5
3	3/64	36	7.07	71.2	25.62	3.6
4	1/8	40	12.57	106.3	42.54	3.4
6	1/8	40	28.27	233.2	93.29	3.3
8	1/8	40	50.27	340.3	136.14	2.7
10	1/8	40	78.54	489.9	195.96	2.5
12	1/8	40	113.10	710.9	284.36	2.5

OAR = Free Screen Area / Inlet Area

Free Screen Area = Opening % x Gross Screen Area

Values shown are approximate. Consult factory for exact ratios.