



900Y SERIES CARBON STEEL, STAINLESS STEEL Y STRAINERS FLANGED, RING JOINT, BUTTWELD

PRESSURES TO 2220 PSIG (153 BARG)
TEMPERATURES TO 800°F (427°C)

APPLICATIONS

- Steam, liquid, gas and oil service
- Power industry
- Pulp and paper
- Chemical industry
- Process Equipment
- Metal & Mining
- Water & Waste

OPTIONS

- Other perforated screens and mesh liners
- Drain connections and other gasket materials
- Oxygen cleaning
- Special internal / external coatings and linings
- Contact Factory for other Options

APPLICABLE CODES

- ANSI B16.5
- ANSI B16.34

- ANSI 900 PSIG rated strainers
- RF or RTJ Flanges, and Butt weld in accordance with ANSI 16.34 and 16.5
- SSI Exclusive – Body blow down flange and cover flange dimensions are in dimensional accordance with ANSI B16.5.
- All Flanged connections complete with Bolted Cover
- One piece cast body
- Upper and lower machined seats
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings
- Drain/Blow-off connection furnished with plug

MODELS

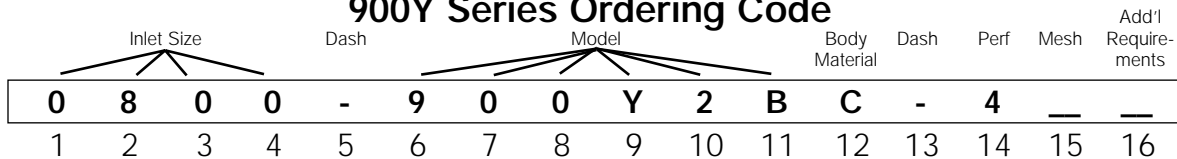
- 900Y2F – Carbon or Stainless Steel Flanged with Bolted Cover
- 900Y2J – Carbon or Stainless Steel Ring Joint with Bolted Cover

For Butt weld connections see FY Series on page 424

NOTE: 900# flanges are the same as 1500# flanges in sizes 1/2" - 2 1/2".

Canadian Registration OE A72.2 6"900Y2

900Y Series Ordering Code



Inlet Size -
Position 1 - 4
0200 - 2"
0250 - 2 1/2"
0300 - 3"
0400 - 4"
0600 - 6"
0800 - 8"

Dash -
Position 5

Model - Position 6 - 11
900Y2F
900Y2J

Body Material - Position 12
C - CS
T - SS

Dash - Position 13

Perf¹ - Position 14
304SS Material²
A - No Perf
1 - 1/32"
B - 3/64"
1 - 1/8"
2 - 1/16"
3 - 3/32"
5 - 5/32"
6 - 3/16"
7 - 7/32"
8 - 1/4"
9 - 3/8"

Mesh² - Position 15
Leave Blank If not Required (std ALL)
1 - 10
2 - 20
3 - 30
4 - 40
5 - 50
6 - 60
7 - 80
8 - 100
9 - 120

Add'l Requirements -
Position 16
Leave Blank If not Required
D - Special Drain Size
F - Silicon Free
G - Special Gaskets
N - Nace MR01-75
T - Special Testing
X - Oxygen Cleaning
Y - Other and / or Multiple Specials

Indicate Specials Clearly On the Order

1. Standard Screens:
All <3"—3/64" perf,
All >3"—1/8" perf.

2. For other screen material, contact factory.

900Y2 SERIES CARBON STEEL, STAINLESS STEEL Y STRAINERS FLANGED, RING JOINT, BUTTWELD SPECIFICATION

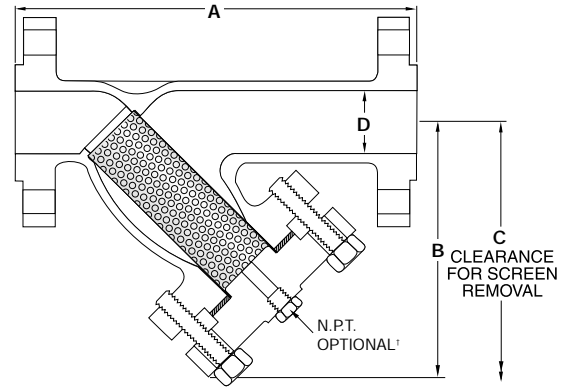
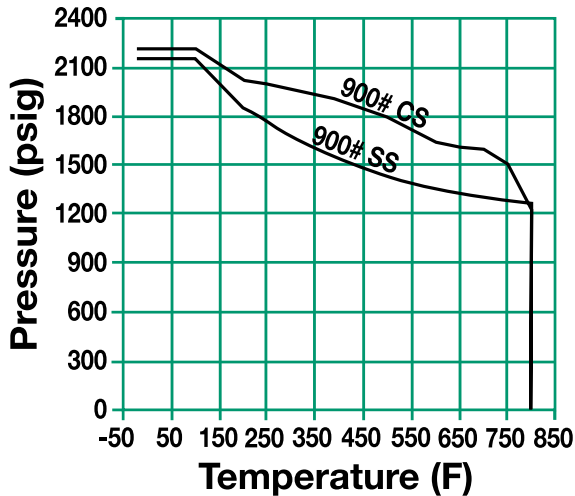
Y Strainer shall be straight flow design with RF Flanged, Ring Joint or Buttweld inlet/outlet connections. The strainer shall be rated to ANSI 900 PSIG rating in accordance with ANSI B16.5 or B16.34. The Strainer shall be Cast Carbon Steel or Stainless Steel body and the screen shall be size _____ perf 304 SS. The strainer shall have an inlet size of _____ and Open Area Ratio of _____. The Y Strainer shall be SSI 900Y2 Series.

MATERIALS OF CONSTRUCTION

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen ¹	304 SS	304 SS
Plug ²	A105	304 SS
Gasket ¹	304 SS Spiral Wound	304 SS Spiral Wound
Stud	A193-B7	A320-B8
Nut ²	A194-2H	A194-8

1. Recommended Spare Parts
2. Materials of equivalent strength may be substituted

PRESSURE/TEMPERATURE CHART
ASME B16.34



¹ SSI Series 900Y strainers are not furnished with a drain/blow-down connection. Consult factory if required.

Connections:
CS - 2" to 8" RF Flanged or RTJ
SS - 2" to 8" RF Flanged, RTJ

For Buttweld connection use FY Series on page 424

SCREEN OPENINGS

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

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	A	B	C	D	WEIGHT
2 (50)	16½ (413)	10½ (268)	14½ (378)	1.87 (48)	125 (57)
3 (80)	20½ (514)	12½ (324)	18 (457)	2.87 (73)	163 (74)
4 (100)	23½ (541)	15 (381)	21½ (539)	3.87 (98)	253 (115)
6 (150)	27½ (705)	18½ (480)	26½ (667)	5.75 (146)	580 (263.6)
8 (200)	34½ (876)	22½ (575)	32 (813)	7.50 (191)	1080 (490.9)

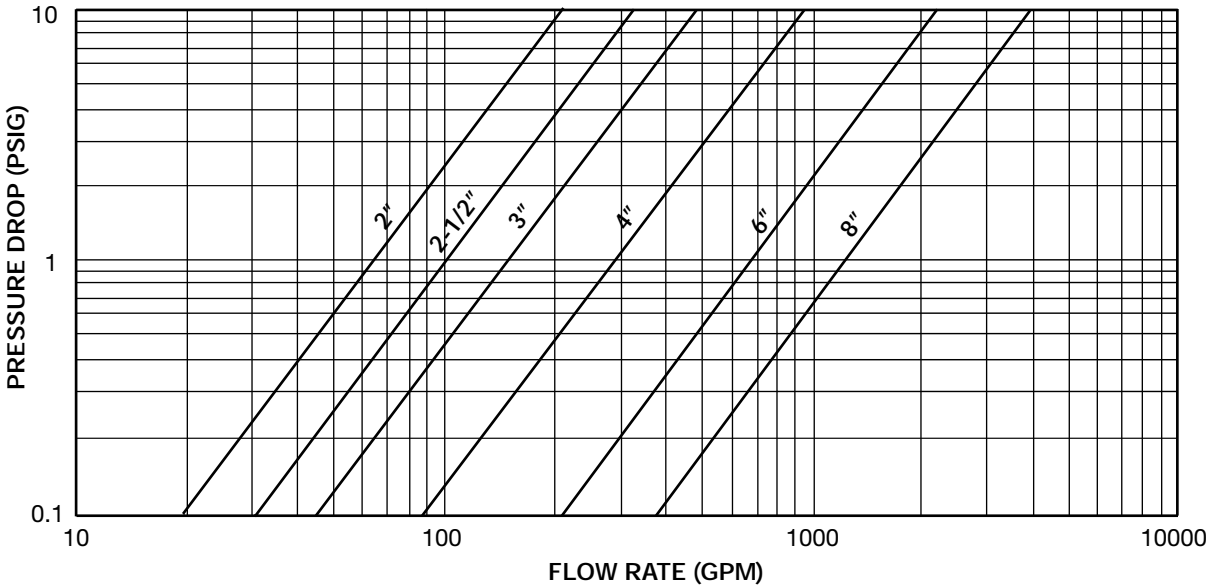
Dimensions shown are subject to change.
Contact factory for certified prints when required.

**900Y2 SERIES
STRAINERS**

900Y SERIES CARBON STEEL, STAINLESS STEEL PRESSURE DROP VS FLOW RATE

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

(Sizes 2" - 8")



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

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

900Y SERIES CARBON STEEL, STAINLESS STEEL OPEN AREA RATIOS with Standard Perforated Screen

900Y2 Carbon Steel, Stainless Steel

Size	Perf. Diameter (mm ²)	Opening %	Flange Inlet Area (in ²)	Gross Screen Area (in ²)	Free Screen Area (in ²)	Open Area Ratio (OAR)
2	3/64	36	3.14	48.9	17.61	5.6
3	3/64	36	7.07	99.5	35.83	5.1
4	1/8	40	12.57	161.6	64.62	5.1
6	1/8	40	28.27	290.7	116.28	4.1
8	1/8	40	50.27	440.2	176.08	3.5

OAR = Free Screen Area / Inlet Area

Free Screen Area = Opening % x Gross Screen Area

Values shown are approximate. Consult factory for exact ratios.

Other Screen Openings
Page 430

Basket Burst Pressure
Page 435