



# 150Y SERIES CARBON STEEL, STAINLESS STEEL, BRONZE Y STRAINERS FLANGED, BUTTWELD

PRESSURES TO 285 PSIG (19.7 BARG)  
TEMPERATURES TO 750°F (390°C)

## APPLICATIONS

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

## OPTIONS

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

## APPLICABLE CODES

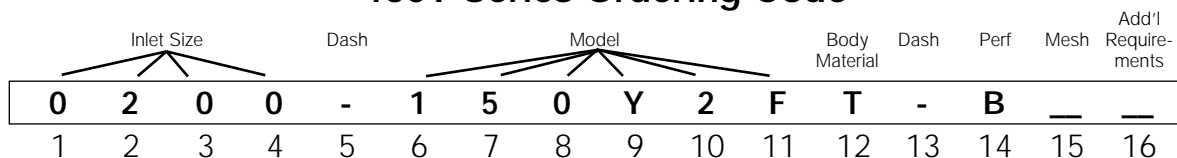
- ANSI B16.5
- ANSI B16.25
- ANSI B16.24
- ANSI B16.34

- ANSI 150 PSIG rated strainers
- RF Flanges, FF Flanges (Bronze only) and Butt weld in accordance with ANSI 16.5, 16.24, and 16.25
- All sizes complete with Bolted Cover
- Cover flange (CS, SS) in accordance with ASME Section VIII, Div 1 Appendix II and/or ANSI 16.5.
- 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

- 150Y2F – Carbon, Stainless or Bronze Flanged with Bolted Cover
- 150Y2B – Carbon or Stainless Butt weld with Bolted Cover

## 150Y Series Ordering Code



<p><b>Inlet Size</b> -</p> <p>Position 1 - 4</p> <p>0050 - 1/2"</p> <p>0075 - 3/4"</p> <p>0100 - 1"</p> <p>0125 - 1 1/4"</p> <p>0150 - 1 1/2"</p> <p>0200 - 2"</p> <p>0250 - 2 1/2"</p> <p>0300 - 3"</p> <p>0400 - 4"</p> <p>0500 - 5"</p> <p>0600 - 6"</p> <p>0800 - 8"</p> <p>1000 - 10"</p> <p>1200 - 12"</p>	<p><b>Dash</b> - Position 5</p> <p><b>Model</b> - Position 6 - 11</p> <p>150Y2F</p> <p>150Y2B<sup>1</sup></p> <p><b>Body Material</b> - Position 12</p> <p>C - CS</p> <p>T - SS</p> <p>B - BZ</p> <p><b>Dash</b> - Position 13</p> <p>1. For Butt weld connections please specify mating pipe schedule.</p>	<p><b>Perf<sup>2</sup></b> - Position 14</p> <p><b>304SS Material<sup>3</sup></b></p> <p>A - No Perf</p> <p>1 - 1/32"</p> <p>B - 3/64</p> <p>4 - 1/8"</p> <p>2 - 1/16"</p> <p>3 - 3/32"</p> <p>5 - 5/32"</p> <p>6 - 3/16"</p> <p>7 - 7/32"</p> <p>8 - 1/4"</p> <p>9 - 3/8"</p>	<p><b>Mesh<sup>3</sup></b> - Position 15</p> <p><b>Leave Blank If not Required (std ALL)</b></p> <p>1 - 10</p> <p>2 - 20</p> <p>3 - 30</p> <p>4 - 40</p> <p>5 - 50</p> <p>6 - 60</p> <p>7 - 80</p> <p>8 - 100</p> <p>9 - 120</p>	<p><b>Add'l Requirements</b> - Position 16</p> <p><b>Leave Blank If not Required</b></p> <p>D - Special Drain Size</p> <p>F - Silicon Free</p> <p>G - Special Gaskets</p> <p>N - Nace MR01-75</p> <p>T - Special Testing</p> <p>X - Oxygen Cleaning</p> <p>Y - Other and / or Multiple Specials</p>
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2. Standard Screens: ALL 1/2"-11/2"—1/32" perf,  
ALL 2"-3"—3/64" perf,  
ALL >3"—1/8" perf .

3. For other screen material, contact factory.

# 150Y2 SERIES CARBON STEEL, STAINLESS STEEL Y STRAINERS FLANGED, BUTTWELD

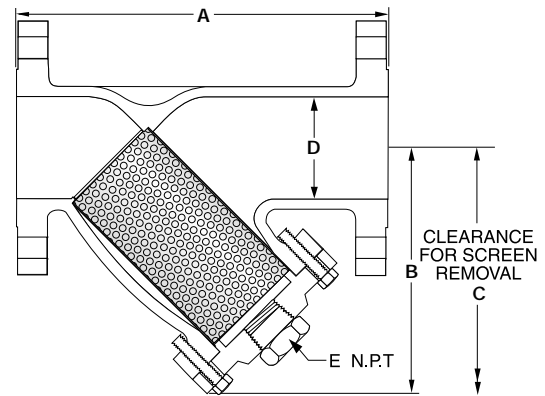
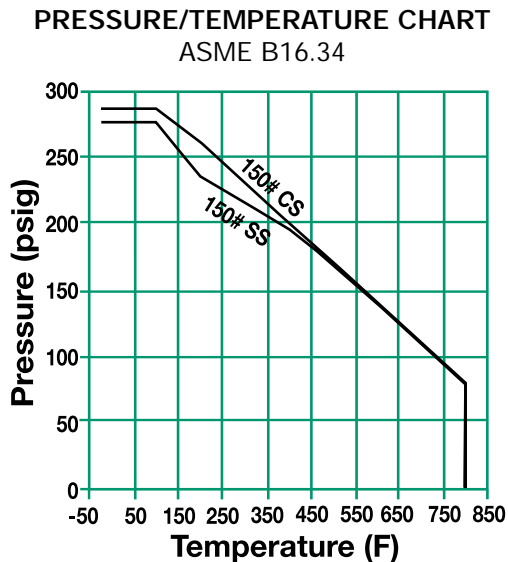
## SPECIFICATION

Y Strainer shall be straight flow design with RF Flanged or Buttweld inlet/outlet connections. The strainer shall be rated to ANSI 150 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 be have an inlet size of \_\_\_\_\_ and Open Area Ratio of \_\_\_\_\_. The Y Strainer shall be SSI 150Y2 Series.

## MATERIALS OF CONSTRUCTION

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen <sup>1</sup>	304 Stainless Steel	304 Stainless Steel
Plug <sup>2</sup>	A105	A182-316
Gasket <sup>1</sup>	Teflon/Spiral Wound 304/GR <sup>3</sup>	Teflon/Spiral Wound 304/GR <sup>3</sup>
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
3. Teflon gasket for sizes 4" and below only.



Connections: CS - ½" to 12"  
RF Flanged or Buttweld  
SS - ½" to 12"  
RF Flanged or Buttweld<sup>4</sup>

4. For Buttweld connections please specify mating pipe schedule.

## SCREEN OPENINGS

SIZE	STANDARD SCREEN	MATERIALS
½" - 1½"	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
½	6	3¾	4¾	½	¾	5.5
(15)	(152)	(99)	(121)	(13)	(8)	(2.5)
¾	7	4¾	5¾	¾	¾	8
(20)	(178)	(108)	(146)	(19)	(10)	(3.7)
1	7½	4¾	6¾	1	½	10
(25)	(191)	(121)	(162)	(25)	(15)	(4.6)
1¼	8¾	5¾	8	1¼	½	16
(32)	(222)	(141)	(203)	(32)	(15)	(7.3)
1½	9	5¾	9	1½	½	18
(40)	(229)	(143)	(229)	(38)	(15)	(8.2)
2	8¾	5¾	7½	2	½	20
(50)	(219)	(149)	(191)	(51)	(15)	(9.1)
2½	10¼	7½	10½	2½	¾	27
(65)	(260)	(191)	(267)	(64)	(20)	(12.3)
3	11¾	7¾	10¾	3	1	41
(80)	(295)	(195)	(276)	(76)	(25)	(18.6)
4	14¾	9¾	13	4	1½	63
(100)	(365)	(232)	(330)	(102)	(40)	(28.6)
5	17¾	11	17	5	2	99
(125)	(448)	(279)	(432)	(127)	(50)	(45)
6	18¾	13	18¾	6	2	133
(150)	(473)	(330)	(467)	(152)	(50)	(60.5)
8	24¾	15¾	21¾	8	2	222
(200)	(619)	(389)	(549)	(203)	(50)	(100.9)
10	26¾	19¾	27	10	2	409
(250)	(662)	(486)	(686)	(254)	(50)	(185.9)
12	30-3/8	22	31	12	2	605
(300)	(772)	(559)	(787)	(305)	(50)	(275)

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

150Y SERIES  
STRAINERS

# 150Y2 SERIES BRONZE Y STRAINERS FLANGED

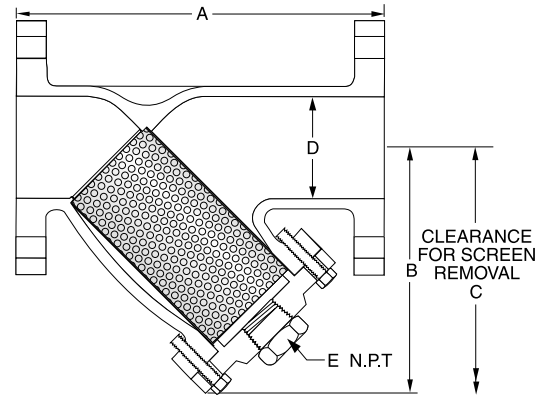
## SPECIFICATION

Y Strainer shall be straight flow design with FF Flanged inlet/outlet connections. The strainer shall be rated to ANSI 150 PSIG rating in accordance with ANSI B16.24. The Strainer shall be Cast Bronze body and the screen shall be size \_\_\_\_\_ perf 304 SS. The strainer shall be have an inlet size of \_\_\_\_\_ and Open Area Ratio of \_\_\_\_\_. The Y Strainer shall be SSI 150Y2 Series.

## MATERIALS OF CONSTRUCTION

Body .....Bronze B62  
 Cover .....Bronze B62  
 Screen<sup>1</sup>.....304 Stainless Steel  
 Plug<sup>2</sup> .....Bronze B62  
 Gasket<sup>1</sup> .....Teflon  
 Bolt/Stud<sup>2</sup> .....B16  
 Nut<sup>2</sup> .....B16

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

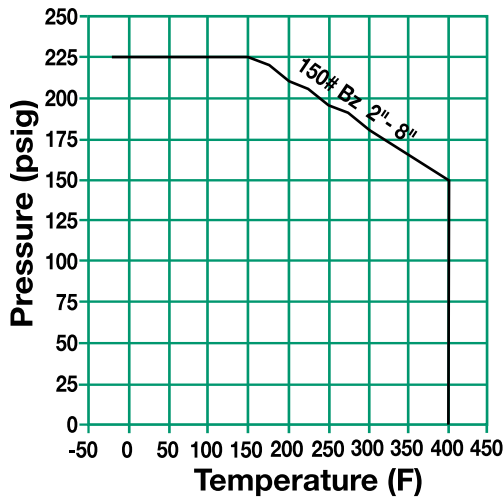


Connections:  
BZ - 2" to 8" FF Flanged

## SCREEN OPENINGS

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

**PRESSURE/TEMPERATURE CHART**  
ANSI B16.24



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

SIZE	A	B	C	D	E	WEIGHT
2 (50)	8 5/8 (219)	4 7/8 (124)	7 1/2 (191)	2 (51)	1/2 (15)	20 (9)
2 1/2 (65)	10 1/4 (260)	7 1/2 (191)	10 1/2 (267)	2 1/2 (64)	1 (25)	32 (15)
3 (80)	11 5/8 (295)	7 3/4 (197)	10 5/8 (276)	3 (76)	1 (25)	36 (16)
4 (100)	14 3/8 (365)	9 5/8 (232)	13 (330)	4 (102)	1 (25)	61 (28)
5 (125)	17 5/8 (448)	11 (279)	17 (432)	5 (127)	1 1/4 (32)	110 (50)
6 (150)	18 5/8 (473)	13 3/8 (340)	18 3/8 (467)	6 (152)	1 1/2 (40)	160 (73)
8 (200)	24 3/8 (619)	14 5/8 (389)	21 1/8 (549)	8 (203)	1 1/2 (40)	210 (95)

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

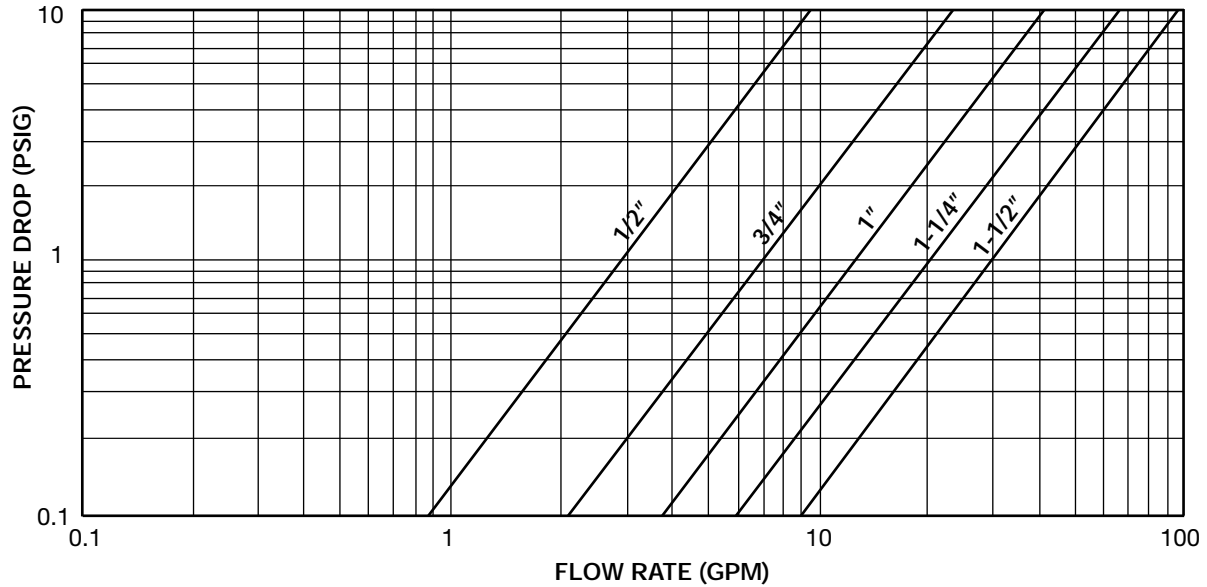
# 150Y SERIES

## CARBON STEEL, STAINLESS STEEL, BRONZE

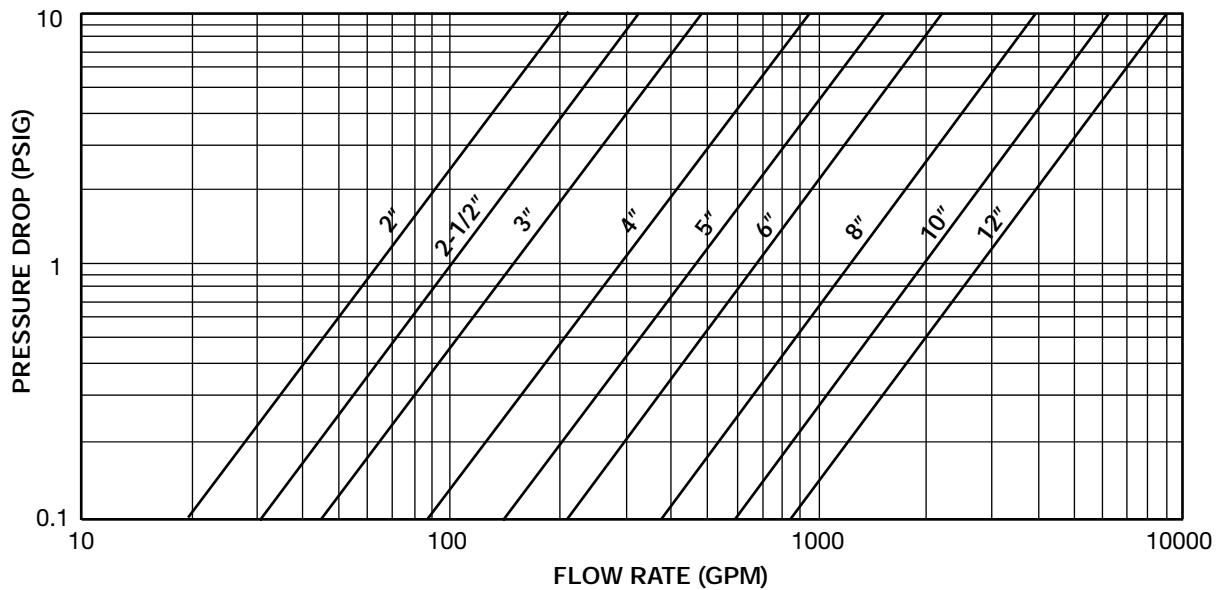
### PRESSURE DROP VS FLOW RATE

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.

Steam Service Pressure Drop  
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Correction Factors for Other Viscous  
Liquids and/or Mesh Liners Page 432

Correction Factors for  
Clogged Screens Page 432

150Y SERIES  
STRAINERS

# 150Y SERIES

## CARBON STEEL, STAINLESS STEEL, BRONZE

### OPEN AREA RATIOS

with Standard Perforated Screen\*

#### BRONZE

Size	Perf. Diameter	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)
2	3/64	36	3.14	21.1	7.60	2.4
2½	3/64	36	4.91	52.3	18.83	3.8
3	3/64	36	7.07	56.2	20.24	2.9
4	1/8	40	12.57	100.1	40.03	3.2
5	1/8	40	19.63	*	*	*
6	1/8	40	28.27	199.6	79.86	2.8
8	1/8	40	50.27	306.4	122.58	2.4

#### CARBON & STAINLESS STEEL

Size	Perf. Diameter	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	0.20	5.4	1.52	7.7
¾	1/32	28	0.44	8.5	2.37	5.4
1	1/32	28	0.79	12.4	3.47	4.4
1¼	1/32	28	1.23	22.8	6.39	5.2
1½	1/32	28	1.77	22.8	6.39	3.6
2	3/64	36	3.14	27.1	9.75	3.1
2½	3/64	36	4.91	50.5	18.17	3.7
3	3/64	36	7.07	65.9	23.71	3.4
4	1/8	40	12.57	86.9	34.74	2.8
5	1/8	40	19.63	148.7	59.47	3.0
6	1/8	40	28.27	214.4	85.74	3.0
8	1/8	40	50.27	329.3	131.71	2.6
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 / Nominal Inlet Area  
 Free Screen Area = Opening % x Gross Screen Area  
 Values shown are approximate. Consult factory for exact ratios.

\* Consult Factory.

150Y SERIES STRAINERS

Other Screen Openings  
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Basket Burst Pressure  
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