



600Y SERIES

CARBON STEEL, STAINLESS STEEL, LOW CARBON STEEL, ALLOY 20 Y STRAINERS

NPT, FLANGED, RING JOINT, SOCKETWELD, BUTTWELD

PRESSURES TO 1480 PSIG (102 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

- Low Carbon Steel and Alloy 20 bodies available on Y1T and Y1W models
- 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 B16.34

Canadian Registration
OEO447.902517 - 600Y1
OE1972.2987 - 600Y2

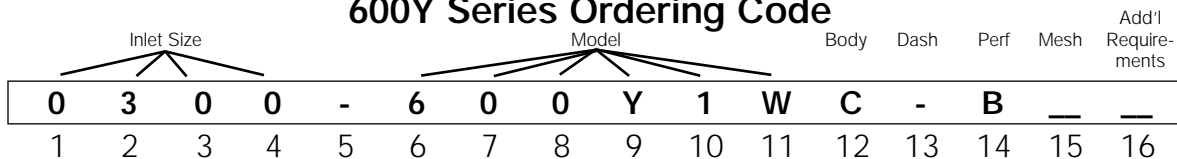
- ANSI 600 PSIG rated strainers
- NPT, RF or RTJ Flanges, Socketweld and Buttweld in accordance with ANSI 16.34 and 16.5
- SSI Exclusive – Body blow down flange and cover flange dimensions are in dimensional accordance with ANSI B16.5
- All Flanged connections complete with Bolted Cover
- One piece cast 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

- 600Y1T* – NPT with Threaded Cover
- 600Y1W* – Socketweld with Threaded Cover
- 600Y2F* – Flanged with Bolted Cover
- 600Y2J* – Ring Joint with Bolted Cover
- 600Y2B* – Buttweld with Bolted Cover

*Carbon Steel, Stainless Steel, Low Carbon Steel or Alloy 20

600Y Series Ordering Code



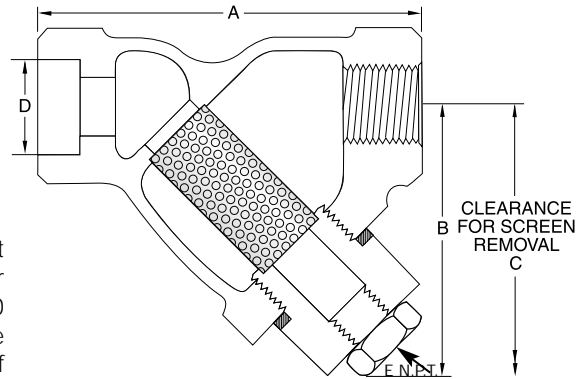
| | | | | |
|--|---|---|--|--|
| <p>Inlet Size - Position 1 - 4</p> <p>0050 - 1/2" 0075 - 3/4" 0100 - 1" 0125 - 1 1/4" 0150 - 1 1/2" 0200 - 2" 0250 - 2 1/2" 0300 - 3" 0400 - 4" 0500 - 5" 0600 - 6" 0800 - 8" 1000 - 10" 1200 - 12"</p> | <p>Dash - Position 5</p> <p>Model - Position 6 - 11</p> <p>600Y1T 600Y1W 600Y2F¹ 600Y2J¹ 600Y2B^{1,2}</p> <p>Body - Position 12</p> <p>C - CS T - SS L - LCS A - A20</p> <p>Dash - Position 13</p> <p>1. CS available 2" - 12", SS available 2" - 6".</p> <p>2. For Buttweld connections please specify mating pipe schedule.</p> | <p>Perf³ - Position 14</p> <p>304SS Material⁴</p> <p>A - No Perf 1 - 1/32" B - 3/64" 4 - 1/8" 2 - 1/16" 3 - 3/32" 5 - 5/32" 6 - 3/16" 7 - 7/32" 8 - 1/4" 9 - 3/8"</p> <p>3. Standard Screens: All 1/2"-1 1/2"—1/32" perf, All 2"-3"—3/64" perf, All >3"—1/8" perf.</p> | <p>Mesh⁴ - Position 15</p> <p>Leave Blank If not Required (std ALL)</p> <p>1 - 10 2 - 20 3 - 30 4 - 40 5 - 50 6 - 60 7 - 80 8 - 100 9 - 120</p> <p>4. For other screen material, contact factory.</p> | <p>Add'l Requirements - Position 16</p> <p>Leave Blank If not Required</p> <p>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</p> <p>Indicate Specials Clearly On the Order</p> |
|--|---|---|--|--|

600Y1 SERIES

CARBON STEEL, STAINLESS STEEL, LOW CARBON STEEL, ALLOY 20 Y STRAINERS NPT, SOCKETWELD

SPECIFICATION

Y Strainer shall be straight flow design with NPT or Socketweld inlet/outlet connections. The strainer shall be rated to ANSI 600 PSIG. The Strainer shall be Cast Carbon Steel, Stainless Steel Low Carbon Steel or Alloy 20 body and the screen shall be size _____ perf 304 SS or Alloy 20. The strainer shall be have an inlet size of _____ and Open Area Ratio of _____. The Y Strainer shall be SSI 600Y1 Series



Connections:

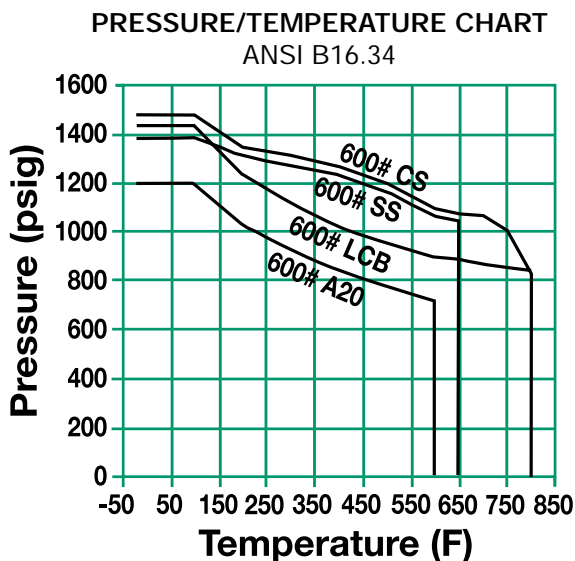
CS - 1/2" to 2" NPT or SW
 SS - 1/2" to 2" NPT or SW
 LCS - 1/2" to 2" NPT or SW
 A20 - 1/2" to 2" NPT or SW

MATERIALS OF CONSTRUCTION

| Part | Carbon Steel | Stainless Steel | Low Carbon Steel | Alloy 20 |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| Body | A216-WCB | A351-CF8M | A352-LCB | A351-CN7M |
| Cap ² | A216-WCB | A351-CF8M | A351-CF8M | A351-CN7M |
| Screen ¹ | 304 SS | 304 SS | 304 SS | 304 SS |
| Plug ² | A105 | 304 SS | 304 SS | B462 |
| Gasket ¹ | 304 SS Spiral Wound | 304 SS Spiral Wound | 304 SS Spiral Wound | 304 SS Spiral Wound |

1. Recommended Spare Parts

2. Materials of equivalent strength may be substituted



SCREEN OPENINGS

| SIZE | STANDARD SCREEN | MATERIALS |
|---------------|-----------------|-----------------|
| 1/2" - 1 1/2" | 1/32" Perf | 304 SS/Alloy 20 |
| 2" | 3/64" Perf | 304 SS/Alloy 20 |

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

| SIZE | A | B | C | D | E | WEIGHT |
|---------------|----------------|------------------|------------------|------------------|---------------|---------------|
| 1/2 (15) | 3 (76) | 2 7/16 (62) | 3 1/8 (80) | 0.855 (21.72) | 3/8 (8) | 1.4 (0.6) |
| 3/4 (20) | 3 3/8 (95) | 2 15/16 (75) | 3 3/8 (90) | 1.065 (27.05) | 7/16 (10) | 2.2 (1.0) |
| 1 (25) | 4 5/8 (118) | 3 3/8 (95) | 3 15/16 (100) | 1.330 (33.78) | 7/8 (10) | 4.1 (1.9) |
| 1 1/4 (32) | 5 (127) | 4 (102) | 4 1/4 (108) | 1.675 (42.55) | 15/16 (20) | 5.3 (2.4) |
| 1 1/2 (40) | 5 5/8 (143) | 4 13/16 (122) | 4 5/8 (118) | 1.915 (48.64) | 15/16 (20) | 8.4 (3.8) |
| 2 (50) | 7 (178) | 6 1/8 (156) | 6 3/4 (171) | 2.406 (61.11) | 1 (25) | 12.6 (5.7) |

Dimensions shown are subject to change.
 Consult factory for certified drawings when required.

600Y1 SERIES
STRAINERS

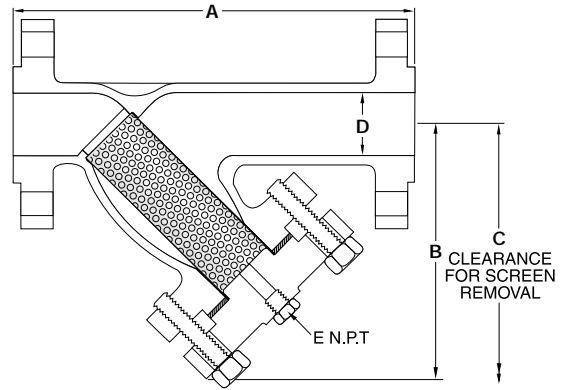
600Y2 SERIES CARBON STEEL, STAINLESS STEEL Y STRAINERS FLANGED, RING JOINT, BUTTWELD SPECIFICATION

Y Strainer shall be straight flow design with RF Flanged, Ring Joint or Buttweld inlet/outlet connections. The strainer shall be rated to ANSI 600 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 600Y2 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



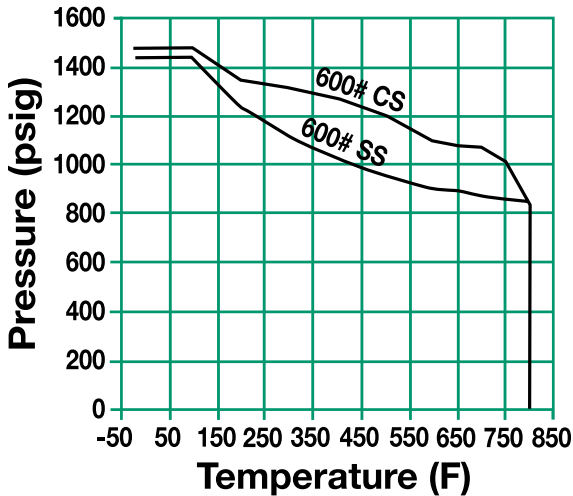
Connections:
 CS - 2" to 12" RF Flanged,
 RTJ or Buttweld³
 SS - 2" to 6" RF Flanged,
 RTJ or Buttweld³

3. For Buttweld connections please specify mating pipe schedule.

SCREEN OPENINGS

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

PRESSURE/TEMPERATURE CHART
ANSI B16.34



DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

| SIZE ⁴ | A | B | C | D | E | WEIGHT |
|-------------------|--------------|--------------|--------------|-------------|------------|-----------------|
| 2 (50) | 12½ (318) | 8 (203) | 9¼ (235) | 2 (51) | ½ (15) | 46 (20.9) |
| 3 (80) | 15½ (397) | 10½ (257) | 11¾ (289) | 3 (76) | 1¼ (32) | 93 (42.2) |
| 4 (100) | 20 (508) | 13 (330) | 14¼ (362) | 4 (102) | 1½ (40) | 187 (85.0) |
| 6 (150) | 25½ (648) | 17 (432) | 18¾ (463) | 6 (152) | 2 (50) | 403 (183.2) |
| 8 (200) | 30 (330) | 21¾ (543) | 22¼ (576) | 8 (203) | 2 (50) | 660 (300.0) |
| 10 (250) | 37½ (956) | 24¾ (629) | 26 (660) | 10 (254) | 2 (50) | 1428 (649.1) |
| 12 (300) | 42 (1067) | 30 (762) | 31¼ (794) | 12 (305) | 2 (50) | 1608 (730.9) |

Dimensions shown are subject to change.
Consult factory for certified drawings when required.

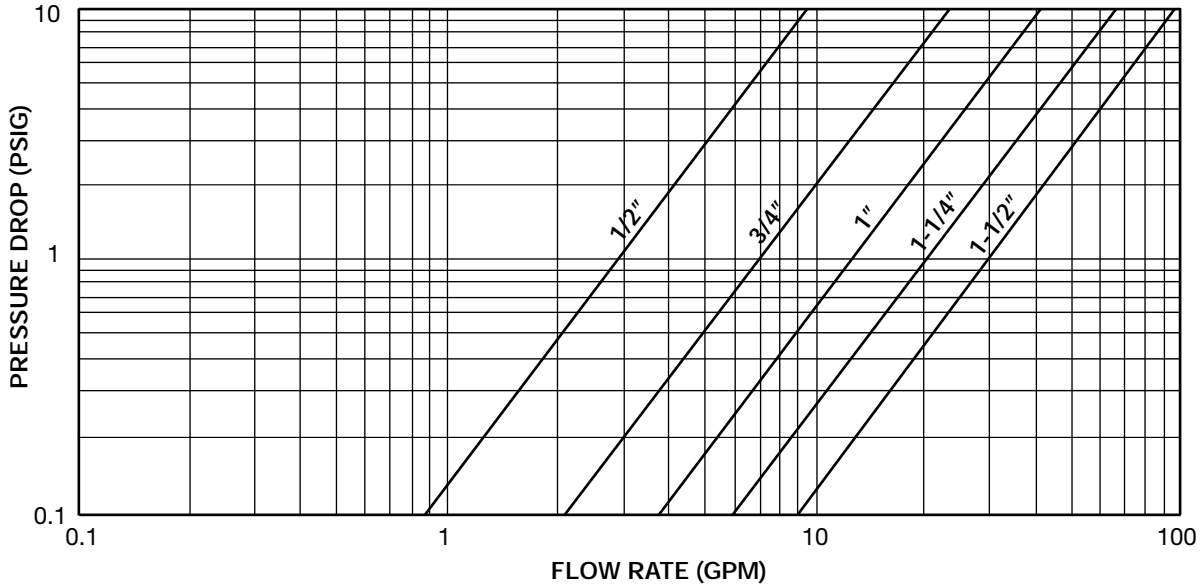
4. CS available 2" - 12",
SS available 2" - 6".

600Y SERIES

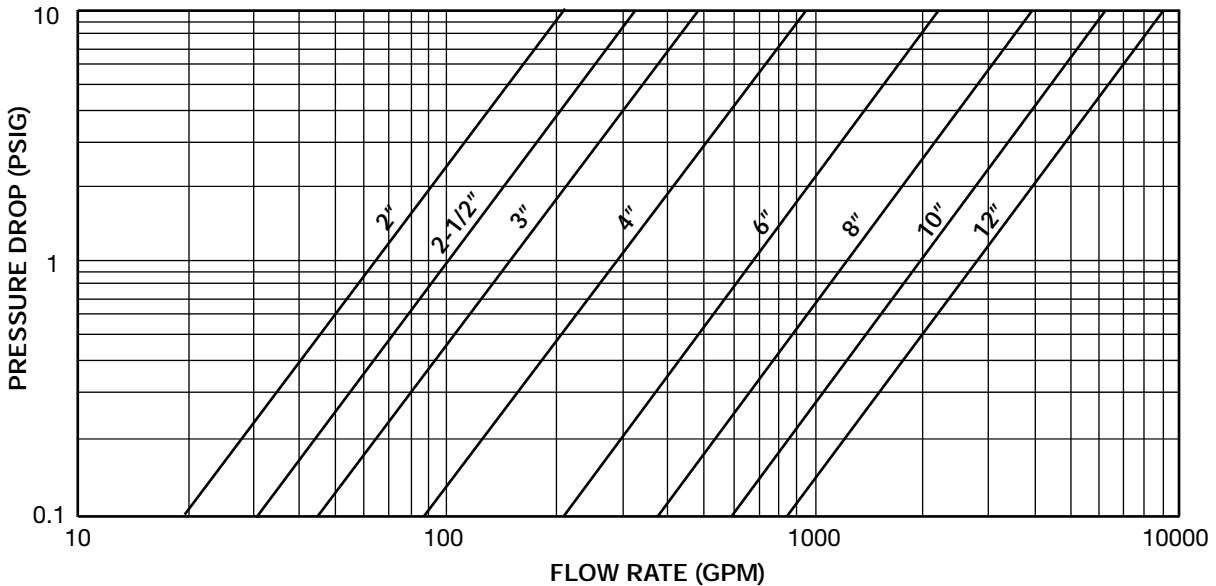
CARBON STEEL, STAINLESS STEEL, LOW CARBON STEEL, ALLOY 20 PRESSURE DROP VS FLOW RATE

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
Page 433

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

Correction Factors for
Clogged Screens Page 432

600Y SERIES
STRAINERS

600Y SERIES

CARBON STEEL, STAINLESS STEEL, LOW CARBON STEEL, ALLOY 20 OPEN AREA RATIOS

with Standard Perforated Screen

600Y1 - Threaded & Socketweld

| Size | Perf. Diameter (inches) | Opening % | XH Pipe Inlet Area (in ²) | Gross Screen Area (in ²) | Free Screen Area (in ²) | Open Area Ratio (OAR) |
|------|-------------------------|-----------|---------------------------------------|--------------------------------------|-------------------------------------|-----------------------|
| ½ | 1/32 | 28 | 0.23 | 2.7 | 0.76 | 3.3 |
| ¾ | 1/32 | 28 | 0.43 | 4.6 | 1.28 | 3.0 |
| 1 | 1/32 | 28 | 0.72 | 8.5 | 2.38 | 3.3 |
| 1¼ | 1/32 | 28 | 1.28 | 12.8 | 3.58 | 2.8 |
| 1½ | 1/32 | 28 | 1.77 | 16.5 | 4.61 | 2.6 |
| 2 | 3/64 | 36 | 2.95 | 27.8 | 19 | 3.4 |

600Y2 - Flanged, Ring Joint Flanged & Buttweld

| Size | Perf. Diameter (inches) | 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 | 38.4 | 13.82 | 4.4 |
| 3 | 3/64 | 36 | 7.07 | 74.2 | 26.72 | 3.8 |
| 4 | 1/8 | 40 | 12.57 | 127.6 | 51.06 | 4.1 |
| 6 | 1/8 | 40 | 28.27 | 261.2 | 104.49 | 3.7 |
| 8 | 1/8 | 40 | 50.27 | 408.5 | 163.42 | 3.3 |
| 10 | 1/8 | 40 | 78.54 | 598.9 | 239.57 | 3.1 |
| 12 | 1/8 | 40 | 113.10 | 817.7 | 327.08 | 2.9 |

OAR = Free Screen Area / Inlet Area

Free Screen Area = Opening % x Gross Screen Area

Values shown are approximate. Consult factory for exact ratios.