

SINGER®

a **MUELLER** brand

IN-LINE STRAINER

KEY FEATURES

- 316 Stainless Steel, large area Z plate screen
- Ductile iron, NSF approved Fusion Bonded Epoxy Coating
- Complies with AWWA C701 & C702

STANDARD MATERIALS

Body: ASTM A536-65/45/12 ductile iron, fusion bonded Epoxy coating

Seal: Buna-N

Screen: 316 Stainless Steel

Cover: 1045 Steel, fusion bonded, epoxy coated

Drain Plug: 316 Stainless Steel



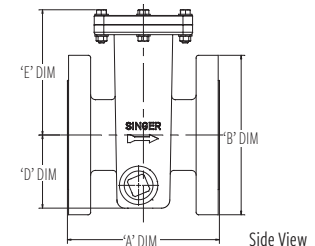
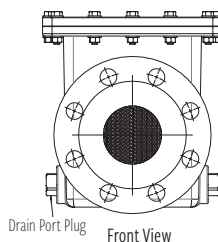
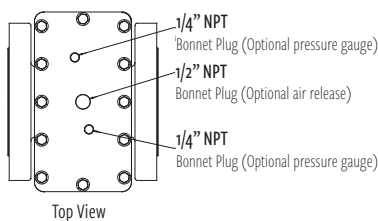
Note: Pressure Gauges are optional

PRODUCT OVERVIEW

The Singer Model In-Line Strainer is designed to protect control valves and pipelines from foreign matter and debris in the flow stream. The Z plate screen design is excellent for providing a smooth laminar flow, which is ideal for locations ahead of automatic control valves.

The Z plate screen is manufactured in corrosion resistant Stainless Steel and allows for a large flow area. It is easily removed by taking off the top cover plate. It is also supplied with flushing ports on both sides of the strainer along with an air bleed connection and connections across the screen for the installation of a differential pressure gauge if required.

PRODUCT LINE DRAWING



Pressure rating: 150F: 250 Psi / 300F: 400 Psi | PN 10/ PN 16: 16 bar (232 Psi) / PN 25: 25 bar (363 Psi) | Max temperature: 180 °F (82 °C)

Dimension in inches 150F / 300F Flanged

| Size | A | | B | | D* | E | NPT Drain Plugs | Screen Perforation |
|------|--------------|--------------|--------------|--------------|-------|-------|-----------------|--------------------|
| | 150# Flanged | 300# Flanged | 150# Flanged | 300# Flanged | | | | |
| 3" | 7.5 | 7.92 | 7.5 | 8.25 | 3.81 | 6.53 | 1.25 | 0.16 |
| 4" | 7.5 | 8.12 | 9 | 10 | 4.25 | 7.33 | 1.25 | 0.16 |
| 6" | 9 | 9.88 | 11 | 12.5 | 5.5 | 8.61 | 1.5 | 0.16 |
| 8" | 9 | 10 | 13.5 | 15 | 6.8 | 9.85 | 1.5 | 0.16 |
| 10" | 10 | 11.38 | 16 | 17.5 | 8.63 | 11.25 | 2 | 0.16 |
| 12" | 12 | 13.38 | 19.13 | 20.5 | 10.13 | 13.11 | 2 | 0.16 |

Confirm availability and delivery of all sizes with factory

Dimension in milimeters PN10 / PN16 / PN 25 Flanged

| Size | A | | B | | D* | E | NPT Drain Plugs | Screen Peforation |
|--------|-----------------------|-----------------|-----------------------|-----------------|-------|-------|--------------------|----------------------|
| | PN10/ PN16 Flanged | PN25 Flanged | PN10/ PN16 Flanged | PN25 Flanged | | | | |
| 80 mm | 190.5 | 201.2 | 190.5 | 209.6 | 96.8 | 165.9 | 31.8 | 4.1 |
| 100 mm | 190.5 | 206.2 | 228.6 | 254.0 | 108.0 | 186.2 | 31.8 | 4.1 |
| 150 mm | 228.6 | 251.0 | 279.4 | 317.5 | 139.7 | 218.7 | 38.1 | 4.1 |
| 200 mm | 228.6 | 254.0 | 342.9 | 381.0 | 172.7 | 250.2 | 38.1 | 4.1 |
| 250 mm | 254.0 | 289.1 | 406.4 | 444.5 | 219.2 | 285.8 | 50.8 | 4.1 |
| 300 mm | 304.8 | 339.9 | 485.9 | 520.7 | 257.3 | 333.0 | 50.8 | 4.1 |

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| Size | Pressure Drop | | Size | L/s | Kpa |
|------|---------------|------|--------|-----|-----|
| | usgpm | psi | | | |
| 3" | 460 | 3.2 | 80 mm | 29 | 22 |
| 4" | 800 | 2.3 | 100 mm | 50 | 16 |
| 6" | 1800 | 2.2 | 150 mm | 114 | 15 |
| 8" | 3100 | 2.4* | 200 mm | 196 | 17* |
| 10" | 4900 | 6.0* | 250 mm | 309 | 41* |
| 12" | 7000 | 7.5* | 300 mm | 442 | 52* |

*Estimated

Note: Rows for 10" and 12" are new

SPECIFICATIONS

- The Strainer shall be a Singer Model In-Line Strainer, ANSI Class 150 (ANSI 300, ANSI Flanges drilled to PN 10/16/ 25 or 40) pressure rating/flange standard.
- The strainer body shall be constructed of ASTM A536-65/45/12 ductile iron or equivalent.
- The cover shall be constructed of 1045 Steel or equivalent.
- The strainer shall have a protective NSF approved Fusion Bonded Epoxy Coating, externally and internally that shall conform to ANSI/AWWA C116/A21.16 (current version) specification. No matching of external parts after final coating will be acceptable to ensure continuous coating surface throughout the entire strainer.
- Strainer screen shall be a 316 Stainless Steel Z plate, drilled/punched with holes to give greater than the pipe area to minimize head loss.
- Strainer Screen shall be removable through the top cover without the need for any special tools. Flat or curved screen will not be acceptable.
- All external fasteners shall be 18-8 Stainless Steel with 18-8 Stainless Steel washers. Mild steel studs or bolts will not be acceptable.
- Drain ports and connection tappings will be supplied with 316 stainless steel plugs.

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