

## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Cast Aluminum Screwed & Flanged End Y Strainers

Models: 451-1/2, Class 125

951 Class 125

Sizes: 1/4" - 4" (6 - 100mm)

### Typical Service

- Used extensively to strain foreign matter from pipelines and provide economical protection for costly pumps, meters, valves, and other similar mechanical equipment.

### Features

- Machined seats in both body and cap align and lock the screen in place to stop sediment bypass.

### Construction

- Screwed end strainers feature a gasketed cap for easy disassembly and assembly. Many others use Loctite, rendering disassembly virtually impossible.
- Flanged end strainers use a gasketed cover. O-Ring seals are available.

### Self-Cleaning

- Self-cleaning is accomplished by opening the plug or valve connected to the blowoff outlet.

### Blowoff Outlets

- Outlets are NPT tapped.
- Sizes of tapping is specified on next page.
- Not normally furnished with plug. Plugs are available, specify with order.

### Capacity

- Generously proportioned bodies.
- Open Area Ratio much greater than pipe size, ensuring low pressure drop.



Model 451-1/2



Model 951

### Pressure/Temperature - Non-Shock

Sizes	Materials	Rating CWP
451 1/2 1/4" - 3"	Cast Aluminium	150psi @ 100°F
		10.34 bar @ 37.78°C
		Steam 125psi @ 450°F 8.62 bar @ 232.22°C
951 1/4" - 4"	Cast Aluminum	150psi @ 100°F
		10.34 bar @ 37.78°C
		Steam 125psi @ 450°F 8.62 bar @ 232.22 °C

### Screens

Model	Sizes	Standard (Water)		Steam Recommendation	
		Material	Opening	Material	Opening
451-1/2	1/4" - 3"	304SS	.062 perf	304SS	.062 perf
951	1/4" - 4"	304SS	.062 perf	304SS	.062 perf

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Mueller Steam Specialty products previously or subsequently sold.



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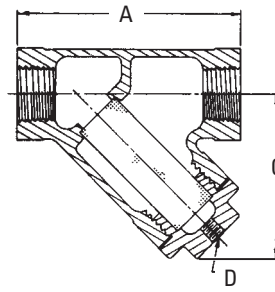
## Material

451-1/2, 951	
Body	Cast Aluminum ASTM B26 Grade 356.0 T6
Cover/Cap	Cast Aluminum ASTM B26 Grade 356.0 T6

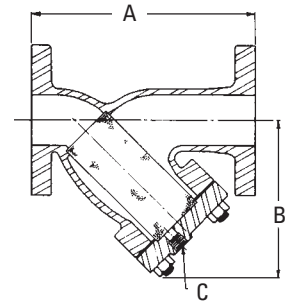
## Dimensions and Weights

SIZE		DIMENSIONS								WEIGHT	
		A		B		C		D		lbs.	kgs.
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
<b>451-1/2</b>											
1/4	6	2 <sup>27</sup> / <sub>32</sub>	72	-	-	2	51	1/8	3	.03	.01
3/8	10	2 <sup>27</sup> / <sub>32</sub>	72	-	-	2	51	1/8	3	.03	.01
1/2	15	3 <sup>7</sup> / <sub>16</sub>	87	-	-	2 <sup>3</sup> / <sub>16</sub>	56	1/8	3	.03	.01
3/4	20	3 <sup>7</sup> / <sub>16</sub>	87	-	-	2 <sup>1</sup> / <sub>2</sub>	64	1/4	6	.5	.22
1	25	4 <sup>1</sup> / <sub>2</sub>	114	-	-	3 <sup>1</sup> / <sub>8</sub>	79	1/4	6	.08	.03
1 <sup>1</sup> / <sub>4</sub>	32	5 <sup>1</sup> / <sub>16</sub>	129	-	-	3 <sup>11</sup> / <sub>16</sub>	93	3/8	10	1.5	.68
1 <sup>1</sup> / <sub>2</sub>	40	5 <sup>7</sup> / <sub>8</sub>	149	-	-	4 <sup>1</sup> / <sub>4</sub>	108	1/2	15	2	.9
2	50	6 <sup>3</sup> / <sub>4</sub>	171	-	-	5 <sup>3</sup> / <sub>8</sub>	137	3/4	20	3.5	1.5
2 <sup>1</sup> / <sub>2</sub>	65	8 <sup>5</sup> / <sub>16</sub>	211	-	-	6 <sup>1</sup> / <sub>2</sub>	165	1	25	5	2.2
3	80	11 <sup>3</sup> / <sub>4</sub>	298	-	-	7 <sup>1</sup> / <sub>4</sub>	184	1	25	12	5.4
<b>951</b>											
1	25	7 <sup>7</sup> / <sub>8</sub>	187	3 <sup>3</sup> / <sub>8</sub>	92	1/2	13	-	-	3.1	1.4
1 <sup>1</sup> / <sub>4</sub>	32	7	177	4 <sup>11</sup> / <sub>16</sub>	119	1/2	13	-	-	5	2.2
1 <sup>1</sup> / <sub>2</sub>	40	7 <sup>1</sup> / <sub>8</sub>	181	4 <sup>11</sup> / <sub>16</sub>	119	1/2	13	-	-	5	2.2
2	50	8 <sup>7</sup> / <sub>16</sub>	214	6	152	1/2	13	-	-	9	4
2 <sup>1</sup> / <sub>2</sub>	65	10 <sup>1</sup> / <sub>16</sub>	256	7 <sup>1</sup> / <sub>4</sub>	184	1	25	-	-	15	6.8
3	80	11 <sup>3</sup> / <sub>4</sub>	298	9	229	1 <sup>1</sup> / <sub>4</sub>	32	-	-	20	9
4	100	14 <sup>1</sup> / <sub>4</sub>	361	11	279	1 <sup>1</sup> / <sub>2</sub>	38	-	-	30	13.6

Apply For Certified Drawings.



Model 451 1/2



Model 951

## Pressure Drop

- See Pressure Drop Charts in Technical Data Section of the Mueller Steam Specialty Engineering binder.

**Limited Warranty:** Mueller Steam Specialty warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Any implied warranties that are imposed by law are limited in duration to one year.

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