

"Y" STRAINER

Figure S853 "Y" Strainer

The Figure S853 "Y" Strainer is rated for 640 psi (44.1 Bar) at 100°F (38°C). The "Y" Strainer provides economical strainer protection for piping equipment such as pumps, meters, valves, compressors, traps and similar equipment. The inlet and outlet ends are suitable for installation with Figure 705, 707 and 772 couplings.

The Figure S853 "Y" Strainer perforated screen has the following standard perforations:

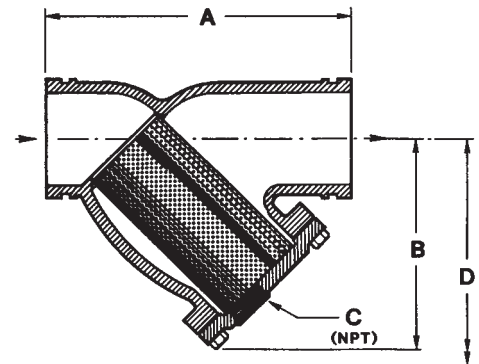
- Sizes 2" - 4" (50mm - 100mm) = 1/16" (1.6mm)
- Sizes 5" - 12" (125mm - 300mm) = 1/8" (3.2mm)

All covers have an NPT blowoff outlet (pipe plugs not included) and recessed seat in the cover to ensure screen alignment.

Self cleaning is done by opening the valve (not supplied) connected to the blowoff outlet. Advise when ordering strainers that are mounted in vertical piping so that the cover will be rotated to position the blowoff at the lowest point.



Tech Data: G420



MATERIAL SPECIFICATIONS

Ductile Iron Body & Cover Specifications

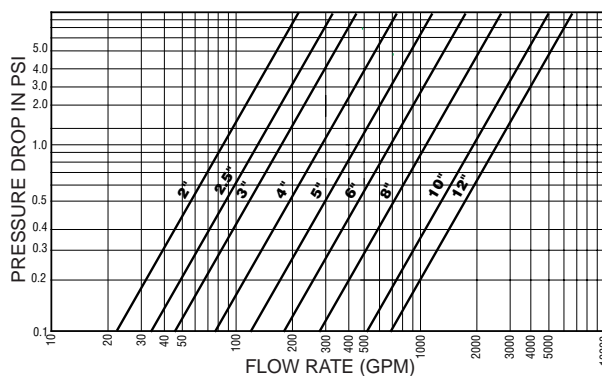
- ASTM A-536 - Standard Specification for Ductile Iron Castings
- Grade 65-45-12
- Tensile Strength, minimum psi-65,000 (MPa-448)
- Yield Strength, minimum psi-45,000 (MPa-310)
- Elongation in 2" (50mm), minimum 12%

Screen Type 304 Stainless Steel ASTM A-240.
(Other alloys are available, contact Tyco Fire & Building Products).

Gasket Non-Asbestos

Coating Black Fusion Bonded Epoxy

PERFORMANCE



Note: It is good piping practice to apply a safety factor of 15% to 20% to the values in the above table.

Nominal Size	Nominal Dimensions					Approx. Weight
	Pipe OD	A	B	C*	D Screen Removal	
Inches	Inches	Inches	Inches	Inches	Inches	Lbs.
<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>Kg</i>
2	2.375	7.88	5.25	0.50	7.00	12.0
50	60.3	200.2	133.4	12.7	177.8	5.4
2½	2.875	10.00	6.50	1.00	9.75	18.0
65	73.0	254.0	165.1	25.4	247.7	8.2
3	3.500	10.13	7.00	1.00	10.00	23.0
80	88.9	257.3	177.8	25.4	254.0	10.4
4	4.500	12.13	8.25	1.50	12.00	42.0
100	114.3	308.1	209.6	38.1	304.8	19.1
5	5.563	15.63	11.25	2.00	17.00	80.0
125	141.3	397.0	285.8	50.8	431.8	36.3
6	6.625	18.50	13.50	2.00	20.00	112.0
150	168.3	469.9	342.9	50.8	508.0	50.8
8	8.625	21.63	15.50	2.00	22.75	205.0
200	219.1	549.4	393.7	50.8	577.9	93.0
10	10.750	29.13	21.00	2.00	30.50	277.0
250	273.1	739.8	533.4	50.8	774.7	125.6
12	12.750	33.75	25.00	2.00	35.50	470.0
300	323.9	857.3	635.0	50.8	901.7	213.2

* Blowoff outlet threads conforming to ISO 7-1 are available upon request. Contact Tyco Fire & Building Products.

Please refer to General Notes on page 14.

TEE STRAINER

Figure S855 Tee Strainer

The Figure S855 Tee Strainer is rated for the following pressures:

- Sizes 2" - 5", 750 psi (51.7 Bar) at 100°F (38°C)
- Size 6", 700 psi (48.2 Bar) at 100°F (38°C)
- Size 8", 600 psi (41.4 Bar) at 100°F (38°C)
- Size 10", 500 psi (34.5 Bar) at 100°F (38°C)
- Size 12", 400 psi (27.6 Bar) at 100°F (38°C)

The Tee Strainer is designed to remove particles from pipelines where a compact, accessible strainer is needed for the protection of pumps, meters, valves and similar mechanical equipment. The inlet and outlet ends are suitable for installation with Figure 705, 707 and 772 couplings that provide quick and easy installation. The cover and its gasket are secured by a compression coupling for easy access to the screen.

The Figure S855 Tee Strainer perforated screen has the following standard perforations:

- Sizes 2" - 6" (50mm - 150mm) = 1/8" (3.2mm)
- Sizes 8" - 12" (200mm - 300mm) = 5/32" (4.0mm)

Other perforation sizes are available upon request. Particle retention size should be specified when ordering nonstandard screens.

MATERIAL SPECIFICATIONS

Ductile Iron Body, Cover & Coupling Disc Specifications

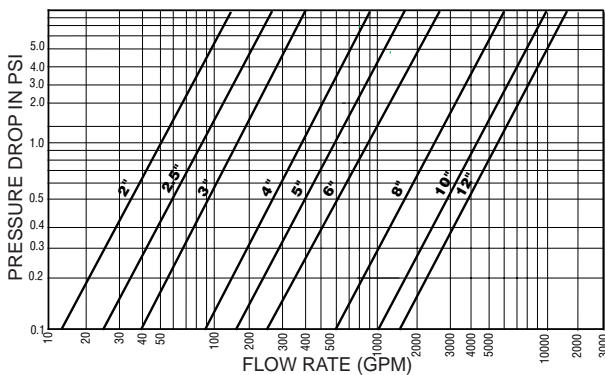
- ASTM A-536 - Standard Specification for Ductile Iron Castings
- Grade 65-45-12
- Tensile Strength, minimum psi-65,000 (MPa-448)
- Yield Strength, minimum psi-45,000 (MPa-310)
- Elongation in 2" (50mm), minimum 12%

Screen

- 20 Gauge Type 304 Stainless Steel ASTM A-240 for sizes 2" - 6"
- 18 Gauge Type 304 Stainless Steel ASTM A-240 for sizes 8" - 12"

Coating Black Fusion Bonded Epoxy

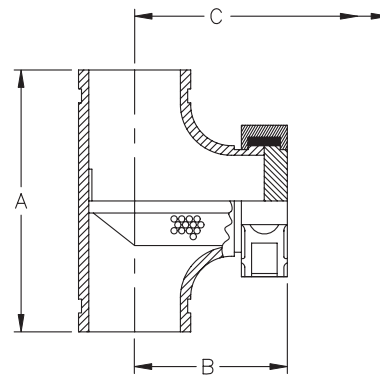
PERFORMANCE



Note: It is good piping practice to apply a safety factor of 15% to 20% to the values in the above table.



Tech Data: G430



Nominal Size	Nominal Dimensions				Approx. Weight
	Pipe OD	A	B	C	
Inches mm	Inches mm	Inches mm	Inches mm	Screen Removal Inches mm	Lbs. Kg
2 50	2.375 60.3	6.50 165.0	4.25 108.0	7.50 191.0	6.0 2.7
2½ 65	2.875 73.0	7.50 191.0	4.75 110.0	8.75 222.0	11.0 5.0
3 80	3.500 88.9	8.50 216.0	5.25 133.0	10.00 254.0	12.0 5.4
4 100	4.500 114.3	10.00 254.0	6.13 156.0	12.00 305.0	20.0 9.0
5 125	5.563 141.3	11.00 279.0	6.63 168.0	13.50 342.0	30.0 13.0
6 150	6.625 168.3	13.00 330.0	7.63 194.0	16.00 406.0	40.0 18.0
8 200	8.625 219.1	15.50 394.0	9.13 232.0	19.44 494.0	81.0 36.0
10 250	10.750 273.0	18.00 457.0	10.38 264.0	22.94 583.0	126.0 57.0
12 300	12.750 323.9	20.00 508.0	11.38 289.0	25.94 659.0	174.0 79.0

Please refer to General Notes on page 14.

ACCESSORIES