

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Cast Stainless Steel Screwed & Socket Weld End Y Strainers

Models: 863M-SS Screwed, Class 1500
 864M-SS Socket Weld
 865-SS Screwed, Class 2500
 866-SS Socket Weld

Sizes: 1/2" – 2" (15 – 50mm)

Typical Service

- Used extensively to strain foreign matter from pipelines and provide economical protection for costly pumps, meters, valves, and other similar mechanical equipment.
- These are especially critical as weld debris is often present in the pipeline.
- Well suited for long service in high pressure and temperature applications.

Features

- Machined seats in both body and cap align and lock the screen in place to stop sediment bypass.
- Machined seats facilitate alignment and accurate reseating after servicing.

Construction

- Most are furnished with a removable bolted cap for easy maintenance.
- NOTE: 1" and smaller 863M-SS and 864M-SS have screwed cap.
- Heavy duty, rugged bodies with extra heavy bore.

Self-Cleaning

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

Blowoff Outlets

- Covers are furnished blind. Socket weld blowoff connection are available, consult factory.
- 1" and smaller 863M-SS and 864M-SS are furnished with NPT tapped blowoff.
- Sizes of tapping specified on next page.
- Not normally furnished with plug. Plug available, specify with order.



Model 863M-SS, 864M-SS



Model 865-SS, 866-SS

Pressure/Temperature - Non-Shock

Model	Material	Rating
863M-SS, 864M-SS	Stainless Steel	3600psi @ -20°F to 100°F 248.1 bar @ 37.78C 1525psi @ 1150°F 105.15 bar @ 621.11C
865-SS, 866-SS	Stainless Steel	6000psi @ -20°F to 100°F 413.69 bar @ 37.78C 1970psi @ 1150°F 135.83 bar @ 621.11C

Capacity

- Generously proportioned bodies.
- Open Area Ratio much greater than pipe size, ensuring low pressure drop.
- Minimum of 4 to 1 Open Area Ratio.

Screens

MODEL	SIZES	STANDARD (WATER)		STEAM RECOMMENDATION	
		MATERIAL	OPENING	MATERIAL	OPENING
All	1/2" - 2"	304SS	.062 perf	304SS	.045 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

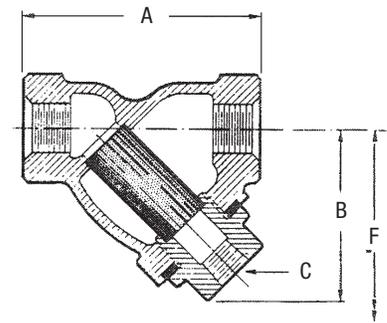
863M-SS, 864M-SS, 865-SS, 866-SS	
Body	Stainless Steel ASTM A351 Gr. CF8M
Cap	Stainless Steel ASTM A351 Gr. CF8M
Gasket	316SS Graphite

Pressure Drop

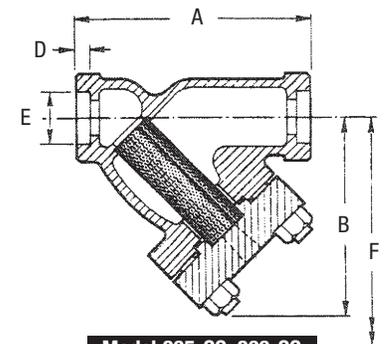
- See Pressure Drop Charts in Technical Data Section in the Mueller Steam Specialty Engineering binder.

Dimensions and Weights

SIZE		DIMENSIONS										WEIGHT			
		A		B		C (NPT)		D		E		F Screen Removal			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
863M-SS															
1/2	15	3 ²⁹ / ₃₂	99.2	3	76	1/4	6	-	-	-	-	3 ³ / ₄	95	2.25	1.02
3/4	20	4 ¹ / ₄	108	3 ⁵ / ₈	92	3/8	10	-	-	-	-	4 ³ / ₈	111	3.75	1.7
1	25	5	127	4 ¹ / ₈	105	1/2	14	-	-	-	-	5 ¹ / ₄	133	6.5	2.9
1 1/4	32	8 ³ / ₈	213	7	178	CF	CF	-	-	-	-	7 ³ / ₄	197	22	10
1 1/2	40	8 ³ / ₈	213	7	178	CF	CF	-	-	-	-	7 ³ / ₄	197	22	10
2	50	9 ⁵ / ₁₆	237	7 ³ / ₈	187	CF	CF	-	-	-	-	9	229	30	13
864M-SS															
1/2	15	3 ²⁹ / ₃₂	99.2	3	76	1/4	6	3/8	10	7/8	21.7	3 ³ / ₄	95	2.25	1.02
3/4	20	4 ¹ / ₄	108	3 ⁵ / ₈	92	3/8	10	1/2	13	1 ¹ / ₁₆	27	4 ³ / ₈	111	3.75	1.7
1	25	5	127	4 ¹ / ₈	105	1/2	14	1/2	13	1 ⁵ / ₁₆	33.8	5 ¹ / ₄	133	6.5	2.9
1 1/4	32	8 ³ / ₈	213	7	178	CF	CF	1/2	13	1 ¹¹ / ₁₆	42.5	7 ³ / ₄	197	22	10
1 1/2	40	8 ³ / ₈	213	7	178	CF	CF	1/2	13	1 ¹⁵ / ₁₆	48.6	7 ³ / ₄	197	22	10
2	50	9 ⁵ / ₁₆	237	7 ³ / ₈	187	CF	CF	5/8	16	2 ³ / ₈	61.1	9	229	30	13
865-SS															
1/2	15	12 ⁵ / ₈	321	7 ¹¹ / ₁₆	195	-	-	-	-	-	-	10 ¹ / ₂	267	9	4
3/4	20	12 ⁵ / ₈	321	7 ¹¹ / ₁₆	195	-	-	-	-	-	-	10 ¹ / ₂	267	12	5.4
1	25	12 ⁵ / ₈	321	7 ¹¹ / ₁₆	195	-	-	-	-	-	-	10 ¹ / ₂	267	40	18
1 1/4	32	16 ⁷ / ₈	429	10 ¹ / ₂	267	-	-	-	-	-	-	14 ¹ / ₂	368	75	34
1 1/2	40	16 ⁷ / ₈	429	10 ¹ / ₂	267	-	-	-	-	-	-	14 ¹ / ₂	368	75	34
2	50	17	432	12 ¹ / ₂	318	-	-	-	-	-	-	16 ³ / ₄	425	200	90
866-SS															
1/2	15	12 ⁵ / ₈	321	7 ¹¹ / ₁₆	195	-	-	3/8	10	7/8	21.7	10 ¹ / ₂	267	9	4
3/4	20	12 ⁵ / ₈	321	7 ¹¹ / ₁₆	195	-	-	1/2	13	1 ¹ / ₁₆	27	10 ¹ / ₂	267	12	5.4
1	25	12 ⁵ / ₈	321	7 ¹¹ / ₁₆	195	-	-	1/2	13	1 ⁵ / ₁₆	33.8	10 ¹ / ₂	267	40	18
1 1/4	32	16 ⁷ / ₈	429	10 ¹ / ₂	267	-	-	1/2	13	1 ¹¹ / ₁₆	42.5	14 ¹ / ₂	368	75	34
1 1/2	40	16 ⁷ / ₈	429	10 ¹ / ₂	267	-	-	1/2	13	1 ¹⁵ / ₁₆	48.6	14 ¹ / ₂	368	75	34
2	50	17	432	12 ¹ / ₂	318	-	-	5/8	16	2 ³ / ₈	61.1	16 ³ / ₄	425	200	90



Model 863M-SS, 864M-SS



Model 865-SS, 866-SS

Apply For Certified Drawings.

*CF = Consult Factory

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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