

# Models: 863M, 864M, 865, 866

## Cast Carbon and Alloy Steel Screwed & Socket Weld End Y Strainers Sizes: 1/2" - 2" (15 - 50mm)

Pressure/Temperature - Non-Shock		
Model	Material	Rating
863M, 864M	Carbon Steel	3705psi @-20°F to 100°F 255.45 bar @ 37.78°C 1595psi @ 850°F 109.97 bar @ 454.44°C
863M, 864M	Chrome- Moly	3750psi @-20°F to 100°F 258.55 bar @ 37.78°C 1500psi @ 975°F 103.42 bar @ 523.89°C
865, 866	Carbon Steel	6170psi @-20°F to 100°F 425.41 bar @ 37.78°C 2655psi @ 850°F 183.06 bar @ 454.44°C
865, 866	Chrome- Moly	6250psi @-20°F to 100°F 430.92 bar @ 37.78°C 2500psi @ 975°F 172.37 bar @ 523.89°C

**863M Screwed            Class 1500**  
**864M Socket            Class 1500**

**865 Screwed            Class 2500**  
**866 Socket            Class 2500**



Models 863M, 864M



Models 865, 866

### 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 and 864M 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 and 864M are furnished with NPT tapped blowoff.
- Sizes of tapping specified on next page
- Not normally furnished with plug. Plug available, specify with order.

### 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

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

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

## Material

	863M, 864M, 865, 866
Body	Carbon Steel, ASTM A216 Grade WCB
Cap	Carbon Steel, ASTM A216 Grade WCB
Gasket	Spiral Wound SS, Graphite Filled

### ALSO AVAILABLE:

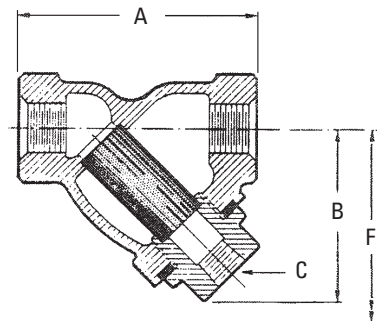
Body/Cap: Carbon-Moly ASTM A217 Gr. W1  
 Chrome-Moly ASTM A217 Gr. WC6  
 Chrome-Moly ASTM A217 Gr. WC9

## Pressure Drop

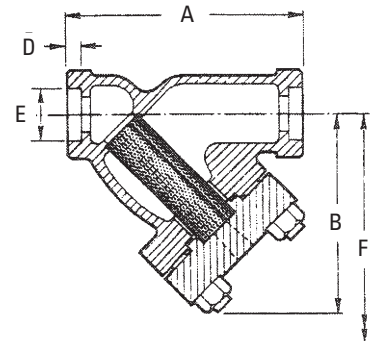
• See Pressure Drop Charts in Technical Data Section in the Mueller Steam Specialty Engineering binder.

## 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	lbs.	kgs.		
<b>863M</b>															
1/2	15	3 <sup>29</sup> / <sub>32</sub>	99.2	3	76	1/4	6	—	—	—	—	3 <sup>3</sup> / <sub>4</sub>	95	2.25	1.02
3/4	20	4 <sup>1</sup> / <sub>4</sub>	108	3 <sup>5</sup> / <sub>8</sub>	92	3/8	10	—	—	—	—	4 <sup>3</sup> / <sub>8</sub>	111	3.75	1.7
1	25	5	127	4 <sup>1</sup> / <sub>8</sub>	105	1/2	14	—	—	—	—	5 <sup>1</sup> / <sub>4</sub>	133	6.5	2.9
1 1/4	32	8 <sup>3</sup> / <sub>8</sub>	213	7	178	—	—	—	—	—	—	7 <sup>3</sup> / <sub>4</sub>	197	22	10
1 1/2	40	8 <sup>3</sup> / <sub>8</sub>	213	7	178	—	—	—	—	—	—	7 <sup>3</sup> / <sub>4</sub>	197	22	10
2	50	9 <sup>5</sup> / <sub>16</sub>	237	7 <sup>3</sup> / <sub>8</sub>	187	—	—	—	—	—	—	9	229	30	13
<b>864M</b>															
1/2	15	3 <sup>29</sup> / <sub>32</sub>	99.2	3	76	1/4	6	3/8	10	7/8	21.7	3 <sup>3</sup> / <sub>4</sub>	95	2.25	1.02
3/4	20	4 <sup>1</sup> / <sub>4</sub>	108	3 <sup>5</sup> / <sub>8</sub>	92	3/8	10	1/2	13	1 <sup>1</sup> / <sub>16</sub>	27	4 <sup>3</sup> / <sub>8</sub>	111	3.75	1.7
1	25	5	127	4 <sup>1</sup> / <sub>8</sub>	105	1/2	14	1/2	13	1 <sup>1</sup> / <sub>16</sub>	33.8	5 <sup>1</sup> / <sub>4</sub>	133	6.5	2.9
1 1/4	32	8 <sup>3</sup> / <sub>8</sub>	213	7	178	CF	CF	1/2	13	1 <sup>1</sup> / <sub>16</sub>	42.5	7 <sup>3</sup> / <sub>4</sub>	197	22	10
1 1/2	40	8 <sup>3</sup> / <sub>8</sub>	213	7	178	CF	CF	1/2	13	1 <sup>15</sup> / <sub>16</sub>	48.6	7 <sup>3</sup> / <sub>4</sub>	197	22	10
2	50	9 <sup>5</sup> / <sub>16</sub>	237	7 <sup>3</sup> / <sub>8</sub>	187	CF	CF	5/8	16	2 <sup>3</sup> / <sub>8</sub>	61.1	9	229	30	13
<b>865</b>															
1/2	15	12 <sup>5</sup> / <sub>8</sub>	321	7 <sup>11</sup> / <sub>16</sub>	195	—	—	—	—	—	—	10 <sup>1</sup> / <sub>2</sub>	267	9	4
3/4	20	12 <sup>5</sup> / <sub>8</sub>	321	7 <sup>11</sup> / <sub>16</sub>	195	—	—	—	—	—	—	10 <sup>1</sup> / <sub>2</sub>	267	12	5.4
1	25	12 <sup>5</sup> / <sub>8</sub>	321	7 <sup>11</sup> / <sub>16</sub>	195	—	—	—	—	—	—	10 <sup>1</sup> / <sub>2</sub>	267	40	18
1 1/4	32	16 <sup>7</sup> / <sub>8</sub>	429	10 <sup>1</sup> / <sub>2</sub>	267	—	—	—	—	—	—	14 <sup>1</sup> / <sub>2</sub>	368	75	34
1 1/2	40	16 <sup>7</sup> / <sub>8</sub>	429	10 <sup>1</sup> / <sub>2</sub>	267	—	—	—	—	—	—	14 <sup>1</sup> / <sub>2</sub>	368	75	34
2	50	17	432	12 <sup>1</sup> / <sub>2</sub>	318	—	—	—	—	—	—	16 <sup>3</sup> / <sub>4</sub>	425	200	90
<b>866</b>															
1/2	15	12 <sup>5</sup> / <sub>8</sub>	321	7 <sup>11</sup> / <sub>16</sub>	195	—	—	3/8	10	7/8	21.7	10 <sup>1</sup> / <sub>2</sub>	267	9	4
3/4	20	12 <sup>5</sup> / <sub>8</sub>	321	7 <sup>11</sup> / <sub>16</sub>	195	—	—	1/2	13	1 <sup>1</sup> / <sub>16</sub>	27	10 <sup>1</sup> / <sub>2</sub>	267	12	5.4
1	25	12 <sup>5</sup> / <sub>8</sub>	321	7 <sup>11</sup> / <sub>16</sub>	195	—	—	1/2	13	1 <sup>1</sup> / <sub>16</sub>	33.8	10 <sup>1</sup> / <sub>2</sub>	267	40	18
1 1/4	32	16 <sup>7</sup> / <sub>8</sub>	429	10 <sup>1</sup> / <sub>2</sub>	267	—	—	1/2	13	1 <sup>1</sup> / <sub>16</sub>	42.5	14 <sup>1</sup> / <sub>2</sub>	368	75	34
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2	50	17	432	12 <sup>1</sup> / <sub>2</sub>	318	—	—	5/8	16	2 <sup>3</sup> / <sub>8</sub>	61.1	16 <sup>3</sup> / <sub>4</sub>	425	200	90



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Model 865, 866

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