

# Models: 764, 765M\*, 766M\*, 767

## Cast Carbon & Alloy Steel Flanged Ends Y Strainers

Sizes: 1/2" - 12" (15 - 300mm)

Pressure / Temperature – Non-Shock		
Model	Material	Rating
764	Carbon Steel	1480psi @ -20°F to 406°F
		102.04 bar @ 37.78°C
		640psi @ 850°F 44.13 bar @ 454.44°C
765M	Carbon Steel	2220psi @ -20°F to 100°F
		153.06 bar @ 37.78°C
		955psi @ 850°F 65.84 bar @ 454.44°C
766M	Carbon Steel	3705psi @ -20°F to 100°F
		255.45 bar @ 37.78°C
		1595psi @ 850°F 109.97 bar @ 454.44°C
767	Carbon Steel	6170psi @ -20°F to 100°F
		425.41 bar @ 37.78°C
		2655psi @ 850°F 183.06 bar @ 454.44°C
764	Chrome-Moly	1500psi @ -20°F to 100°F
		103.42 bar @ 37.78°C
		600psi @ 975°F 41.37 bar @ 523.89°C
765M	Chrome-Moly	2250psi @ -20°F to 100°F
		155.13 bar @ 37.78°C
		900psi @ 975°F 62.05 bar @ 523.89°C
766M	Chrome-Moly	3750psi @ -20°F to 100°F
		258.55 bar @ 37.78°C
		1500psi @ 975°F 103.42 bar @ 523.89°C
767	Chrome-Moly	6250psi @ -20°F to 100°F
		430.92 bar @ 37.78°C
		2500psi @ 838°F 172.37 bar @ 523.89°C

764                      Class 600  
765M                    Class 900  
766M                    Class 1500  
767                      Class 2500



Models 764, 765M, 766M, 767

\* 765M and 766M supersede models 765/766. Consult factory.

### 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

- Designed for high pressure and temperature services.
- Alloy bolting for all sizes.
- Heavy gauge reinforced screens are used.
- Flanged are back faced, or spot faced at the boltholes.
- Ring Type Joint (RTJ) flanges are available, consult factory.

### Self-Cleaning

- Self-cleaning is accomplished by opening the plug or valve connected to the blowoff outlet, if provided.
- Cleaning usually accomplished by shutting off line pressure and disassembling strainer.

### Blowoff Outlets

- Cover flange for 764 is furnished with blowoff tapping, not plugged.
- All other covers normally furnished as blind flanges. Socket weld blowoff connection available, specify on 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 - 4"	304SS	.062 perf	304SS	.033 perf
All	5" and Up	304SS	.125 perf	304SS	.045 perf

### Materials

764, 765M, 766M, 767	
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

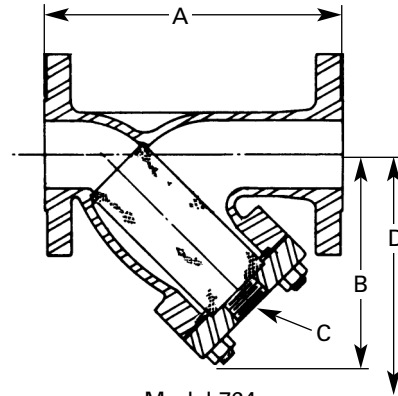
### Pressure Drop

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



# Dimensions and Weights

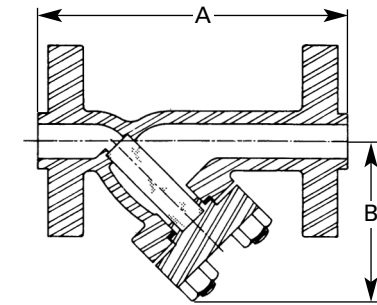
SIZE		DIMENSIONS						WEIGHT			
		A		B		C		D Screen Removal			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
<b>764</b>											
1/2	15	6 5/8	168	3 1/2	89	3/8	10	5	130	6	2.7
3/4	20	8 5/16	211	3 3/4	95	1/2	15	5	130	12.3	5.5
1	25	8 5/16	211	3 3/4	95	1/2	15	5	130	12.3	5.5
1 1/4	32	10 1/8	257	5 1/2	140	1/2	15	8	203	19	8.6
1 1/2	40	10 1/4	260	5 1/2	140	1/2	15	8	203	27	12
2	50	11	279	7	178	1/2	15	10	254	40	18
2 1/2	65	12	305	8 1/4	210	1	25	12 1/2	318	60	27
3	80	13 1/2	343	9 1/4	235	1 1/4	32	14 1/2	368	78	35
4	100	17 5/16	456	12 1/2	318	1 1/2	40	19 1/2	495	160	72.7
5	125	22 1/4	565	15	381	2	50	23	584	254	115
6	150	22 5/8	651	20	508	2	50	31	787	364	165
8	200	31 3/4	806	24	610	2	50	38 1/2	978	670	304
10	250	37 11/16	957	28 1/2	724	2	50	45 1/2	1156	1090	495
12	300	45 1/2	1156	34 1/2	876	2	50	52	1321	1558	708



Model 764

SIZE		DIMENSIONS				WEIGHT	
		A		B			
in.	mm	in.	mm	in.	mm	lbs.	kgs.
<b>765M</b>							
1/2	15	8 1/8	206	4 1/4	108	20	9
3/4	20	9 1/16	230	4 3/4	121	30	13.6
1	25	10 11/16	271	5 3/4	146	52	23
1 1/4	32	12	305	6 3/4	171	64.5	29
1 1/2	40	12	305	6 3/4	171	64.5	29
2	50	13 15/16	354	7 1/2	191	93	42
2 1/2	65	17 1/2	445	10 3/4	273	185	84
3	80	17 1/2	445	10 3/4	273	185	84
4	100	23 1/4	591	15	381	250	113
6	150	27 3/4	705	18 7/8	479	560	254
8	200	33 1/4	846	23 3/8	606	1000	454
10	250	CF	CF	CF	CF	CF	CF
12	300	CF	CF	CF	CF	CF	CF

SIZE		DIMENSIONS				WEIGHT	
		A		B			
in.	mm	in.	mm	in.	mm	lbs.	kgs.
<b>766M</b>							
1/2	15	8 1/8	206	4 1/4	108	20	9
3/4	20	9 1/16	230	4 3/4	121	30	13.6
1	25	10 11/16	271	5 3/4	146	52	23
1 1/4	32	12	305	6 3/4	171	64.5	29
1 1/2	40	12	305	6 3/4	171	64.5	29
2	50	13 15/16	354	7 1/2	191	93	42
2 1/2	65	17 1/2	445	10 3/4	273	185	84
3	80	17 1/2	445	10 3/4	273	185	84
4	100	23 1/4	591	15	381	334	151
6	150	30 5/8	778	20 1/2	521	770	350
8	200	39	991	26 15/16	684	1200	545
10	250	CF	CF	CF	CF	CF	CF
12	300	CF	CF	CF	CF	CF	CF



Models 765M, 766M, 767

SIZE		DIMENSIONS				WEIGHT	
		A		B			
in.	mm	in.	mm	in.	mm	lbs.	kgs.
<b>767</b>							
1/2	15	12 5/8	321	7 11/16	195	30	13.6
3/4	20	12 5/8	321	7 11/16	195	40	18
1	25	12 5/8	321	7 11/16	195	65	29.5
1 1/4	32	16 7/8	429	10 1/2	267	140	63.3
1 1/2	40	16 7/8	429	10 1/2	267	140	63.6
2	50	18 15/16	481	12 1/2	318	240	109
2 1/2	65	25 3/4	654	18 13/16	478	500	227
3	80	26 3/4	679	18 13/16	478	560	254
4	100	33 5/8	854	20 1/4	514	850	386
6	150	33 3/4	857	20	508	900	862
8	200	CF	CF	CF	CF	CF	CF
10	250	CF	CF	CF	CF	CF	CF
12	300	CF	CF	CF	CF	CF	CF

Apply For Certified Drawings.

CF=Consult Factory

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