

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

## Cast Carbon & Alloy Steel Flanged Ends Y Strainers

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

Carbon Steel			
764	Carbon	1480 psi @ 100°F	
Class	Steel	102.1 bar @ 38°C	
600		825 psi @ 800°F	
		57.5 bar @ 425°C	
765M	Carbon	2220 psi @ 100°F	
Class	Steel	153.2 bar @ 38°C	
900		1235 psi @ 800°F	
		86.3 bar @ 425°C	
766M	Carbon	3705 psi @ 100°F	
Class	Steel	255.3 bar @ 38°C	
1500		2055 psi @ 800°F	
		143.8 bar @ 425°C	
767	Carbon	6170 psi @ 100°F	
Class	Steel	425.5 bar @ 38°C	
2500		3430 psi @ 800°F	
		239.7 bar @ 425°C	
Chrome-Moly A217-WC6			
764	Chrome-1500 psi @ 100°F		
Class	Moly	103.4 bar @ 38°C	
600	A217	430 psi @ 1000°F	
	WC6	29.8 bar @ 538°C	
765M	Chrome-2250 psi @ 100°F		
Class	Moly	155.1 bar @ 38°C	
900	A217	650 psi @ 1000°F	
	WC6	44.7 bar @ 538°C	
766M	Chrome-3750 psi @ 100°F		
Class	Moly	258.6 bar @ 38°C	
1500	A217	1080 psi @ 1000°F	
	WC6	74.5 bar @ 538°C	
767	Chrome-6250 psi @ 100°F		
Class	Moly	430.9 bar @ 38°C	
2500	A217	1800 psi @ 1000°F	
	WC6	124.1 bar @ 538°C	

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



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 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.
- Flanges 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 using standard 1/16 and 1/8 perf screens.

### Screens

MODEL	SIZES	STANDARD (WATER)		STEAM RECOMENDATION	
		MATERIAL	OPENING	MATERIAL	OPENING
All	1/2 - 4"	304SS	.062 perf	304SS	.033 perf
All	5" and Up	304SS	.125 perf	304SS	.045 perf

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

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

Engineer \_\_\_\_\_

Approval \_\_\_\_\_

Contractor \_\_\_\_\_

Approval \_\_\_\_\_

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

Representative \_\_\_\_\_



# Materials

	764, 765M, 766M, 767
Body	Carbon Steel, ASTM A216 Grade WCB
Cover	Carbon Steel, ASTM A216 Grade WCB*
Gasket	Spiral Wound SS, Graphite Filled

## ALSO AVAILABLE:

Body/Cap: Carbon-Moly ASTM A217 Gr. WC1,  
 Chrome-Moly ASTM A217 Gr. WC6,  
 Chrome-Moly ASTM A217 Gr. WC9

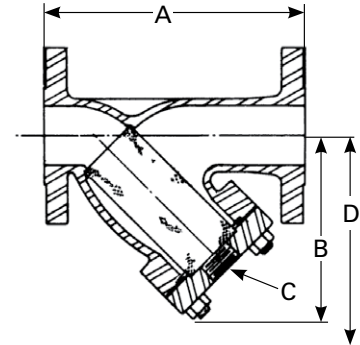
\* Cover may also be manufactured from equivalent grade plate material.

## Pressure Drop

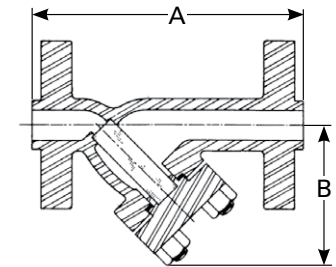
See Pressure Drop Charts in Technical Data Section in the Mueller Steam Specialty Engineering binder.

## Dimensions and Weights

SIZE		DIMENSIONS						D		WEIGHT	
		A		B		C		Screen Removal			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
<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 15/16	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	25 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



Models 765M, 766M, 767

SIZE		DIMENSIONS				WEIGHT	
		A		B			
in.	mm	in.	mm	in.	mm	lbs.	kgs.
<b>765M</b>							
1/2	15	8 7/8	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 5/16	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 3/4	591	15	381	250	113
6	150	27 3/4	705	18 7/8	479	560	254
8	200	33 1/4	846	23 7/8	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 7/8	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 3/2	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 3/4	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

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 1/8	429	10 1/2	267	140	63.3
1 1/2	40	16 1/8	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 3/16	478	500	227
3	80	26 3/4	679	18 3/16	478	560	254
4	100	33 3/8	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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