

# Models: 781-SS\*, 781-SS-WE\*

## Cast Stainless Steel Flanged & Butt Weld End Y Strainers Sizes: 1/2" - 24" (15 - 600mm)

Pressure / Temperature – Non-Shock		
Model	Material	Rating
781-SS,	Stainless	290psi @ -20°F to 100°F
781-SS-WE	Steel	19.99 bar @ 37.78°C 150psi @ 565°F 10.34 bar @ 296.11°C

**781-SS**                                      **Class 150**  
**781-SS-WE**                                **Class 150**



Model 781-SS



Model 781-SS-WE

\*781/781-WE supersede model  
 761/761-WE. 761/761-WE still available  
 upon request

### Typical Service

- Used extensively to strain foreign matter from pipelines and provide economical protection for costly pumps, meters, valves, and other similar mechanical equipment.
- Especially important where weld debris is likely 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 Class 150 specifications.
- Heavy gauge reinforced screens are used.

**IMPORTANT NOTE:** Model 781-SS-WE ends are machined to match Schedule 40 pipe. Other connections are available, consult factory.

### Self-Cleaning

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

### Blowoff Outlets

- Blowoff outlets are NPT tapped at location C. See next page for NPT sizes.
- Blind covers are available, consult factory.

### 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 RECOMENDATION	
		MATERIAL	OPENING	MATERIAL	OPENING
All	1/2" - 4"	304SS	.062 perf	304SS	.033 perf
All	5" and Up	304SS	.125 perf	304SS	.062 perf

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

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

## Material

	764-WE, 765M-WE, 766M-WE, 767-WE
Body	Stainless Steel, ASTM A351 Grade CF8M
Cover	Stainless Steel, ASTM A351 Grade CF8M
Gasket	316 Graphite

## ALSO AVAILABLE:

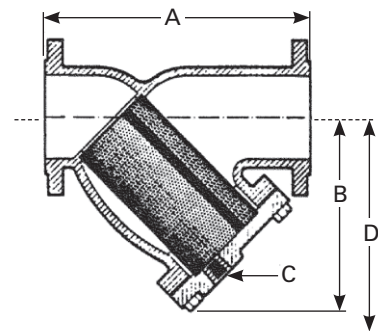
Body/Cap: Alloy 20 (ASTM A351 Gr.CN7M)  
Hastelloy C  
Monel (Ni-Cu)

## Pressure Drop

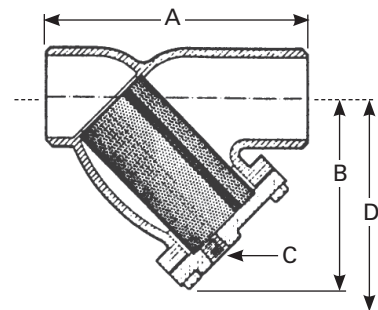
See Pressure Drop Charts in Technical Data Section of the Mueller Steam Specialty Engineering binder.

## 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>781-SS</b>											
1/2	15	5 7/8	149	3 1/2	89	3/8	10	5	130	5.5	2.5
3/4	20	7 3/8	187	3 3/4	95	1/2	15	5	130	10.25	4.6
1	25	7 3/8	187	3 3/4	95	1/2	15	5	130	10.25	4.6
1 1/4	32	7	178	4 3/4	121	1/2	15	7	178	9.75	4.4
1 1/2	40	7 1/8	181	4 3/4	121	1/2	15	7	178	12.5	5.6
2	50	7 7/8	200	5 1/4	133	1/2	15	7	178	18	8.1
2 1/2	65	9 3/4	248	6 1/2	165	1	25	9 3/4	248	28	12.7
3	80	10 1/16	256	7	178	1	25	10	254	34	15
4	100	12 1/8	308	8 3/4	210	1 1/2	40	12	305	55	25
5	125	15 5/8	397	11 1/4	286	2	50	20	508	90	40
6	150	18 1/2	470	13 1/2	343	2	50	20	508	153	69
8	200	21 3/8	543	15 1/2	394	2	50	22 3/4	578	220	100
10	250	26	660	18 1/2	470	2	50	28	711	320	145
12	300	29 7/8	759	22 1/4	565	2	50	30	762	550	250
14	350	36	914	25	635	2	50	36 1/2	927	975	442
16	400	41 3/8	1056	26 1/2	673	2	50	42	1067	1635	741
18	450	46	1168	34 7/8	886	2	50	50 7/8	1292	2376	1078
20	500	49 1/2	1257	39	991	2	50	55 3/8	1407	2675	1213
24	600	58 3/8	1483	44 1/8	1122	2	50	67 1/4	1708	4880	2213
<b>781-SS-WE</b>											
1/2	15	6 3/8	168	3 1/2	89	3/8	10	5	130	3	1.3
3/4	20	8 1/16	211	3 3/4	95	1/2	15	5	130	9	4
1	25	8 1/16	211	3 3/4	95	1/2	15	5	130	9	4
1 1/4	32	10 1/8	257	5 1/4	133	1/2	15	7	178	12	5.4
1 1/2	40	10 1/4	260	5 1/4	133	1/2	15	7	178	13	5.9
2	50	10 1/4	260	5 1/4	133	1/2	15	7	178	13	5.9
2 1/2	65	10 5/8	269	6 1/2	165	1	25	9 3/4	248	14	6.3
3	80	12	305	7	178	1	25	10	254	20	9
4	100	14 1/2	368	8 3/4	210	1 1/2	40	12	305	40	18
5	125	19 5/16	491	13 1/2	343	2	50	20	508	90	40
6	150	19 5/16	491	13 1/2	343	2	50	20	508	90	40
8	200	23 3/8	594	15 3/4	400	2	50	22 3/4	578	168	76
10	250	27 3/8	695	19	483	2	50	28	711	250	113
12	300	32	813	22 1/4	565	2	50	30	762	440	200
14	350	36	914	25	635	2	50	36 1/2	927	815	370
16	400	41 1/16	1056	26 1/2	673	2	50	42	1067	1433	650
18	450	46	1168	34 7/8	886	2	50	50 7/8	1292	2152	976
20	500	49 1/2	1257	39	991	2	50	55 3/8	1407	2393	1085
24	600	58 3/8	1483	44 1/8	1122	2	50	67 1/4	1708	4486	2034



Model 781-SS



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