

# Models: 782\*, 782-WE\*

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

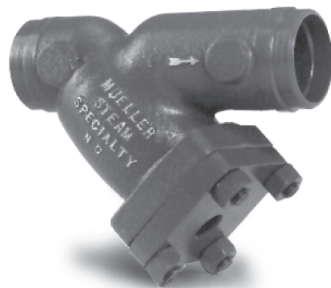
Pressure / Temperature - Non-Shock		
Model	Material	Rating
782, 782WE	Carbon Steel	740psi @ -20°F to 100°F
		51.02 bar @ 37.78°C
		300psi @ 850°F 20.86 bar @ 454.44°C
782, 782WE	Chrome- Moly	750psi @ -20°F to 100°F
		51.71 bar @ 37.78°C
		485psi @ 850°F 33.44 bar @ 454.44°C

**782**  
**782-WE**

**Class 300**  
**Class 300**



Model 782



Model 782-WE

\* The 782/782-WE supersedes model 762/762-WE. Model 762/762-WE 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 300 specifications.
- Heavy gauge reinforced screens are used.
- IMPORTANT NOTE:
  - Model 782-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" - 12"	304SS	.062 perf	304SS	.045 perf
All	14" and Up	304SS	.125 perf	304SS	.062 perf

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

## Material

	782, 782-WE
Body	Carbon Steel, ASTM A216 Grade WCB
Cover	Carbon Steel, ASTM A216 Grade WCB
Gasket	316SS Tang Graphite

## ALSO AVAILABLE:

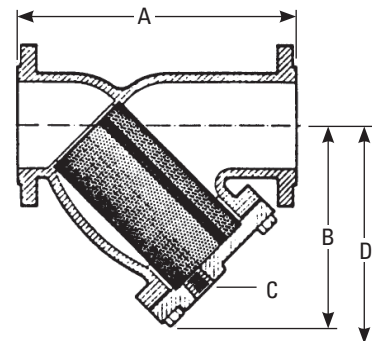
Body/Cap: Carbon-Moly ASTM A217 Gr. W1,  
 Chrome-Moly ASTM A217 Gr.  
 WC6, Chrome-Moly ASTM A217 Gr. WC9

## Pressure Drop

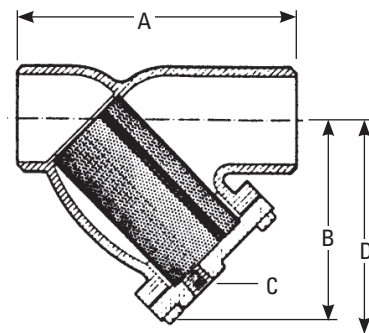
See Pressure Drop Charts in Technical Data Section of the Mueller Steam Specialty Engineering binder.

## Dimensions and Weights

SIZE		DIMENSIONS						WEIGHT			
		A		B		C		D Screen Removal			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
<b>782</b>											
1/2	15	6 1/8	155	3 1/2	89	3/8	10	5	130	5.5	2.5
3/4	20	7 3/4	197	3 3/4	95	1/2	15	5	130	12.3	5.5
1	25	7 7/8	200	3 3/4	95	1/2	15	5	130	13	5.9
1 1/4	32	7 1/2	191	4 3/4	121	1/2	15	8	203	18.3	8.2
1 1/2	32	7 1/2	191	4 3/4	121	1/2	15	8	203	18.3	8.2
1 1/2	40	8 1/4	194	4 3/4	121	1/2	15	8	203	18	8.1
2	50	8 5/8	219	5 1/4	133	1/2	15	7	178	22	10
2 1/2	65	10 5/8	269	6 1/2	165	1	25	9 3/4	248	32	14.5
3	80	12	305	7	178	1	25	10	254	49	22
4	100	14 1/2	368	8 1/4	210	1 1/2	40	12	305	90	40
5	125	19 5/16	491	13 1/2	343	2	50	20	508	120	54.5
6	150	19 5/16	491	13 1/2	343	2	50	20	508	175	79
8	200	23 3/8	594	15 3/4	400	2	50	22 3/4	578	300	136
10	250	27 3/8	695	18 1/2	470	2	50	28	711	440	200
12	300	32	813	22 1/4	565	2	50	30	762	650	295
14	350	36	914	25	635	2	50	36 1/2	927	1365	619
16	400	41 5/16	1056	26 1/2	673	2	50	42	1067	1936	878
18	450	46	1168	34 3/8	886	2	50	50 7/8	1292	2576	1168
20	500	49 1/2	1257	39	991	2	50	55 3/8	1407	3111	1411
24	600	58 3/8	1483	44 1/8	1122	2	50	67 1/4	1708	5305	2406
<b>782-WE</b>											
1/2	15	6 5/8	168	3 1/2	89	3/8	10	5	130	3	1.3
3/4	20	8 5/16	211	3 3/4	95	1/2	15	5	130	9	4
1	25	8 7/16	257	3 3/4	95	1/2	15	5	130	9	4
1 1/4	32	10 1/8	260	5 1/4	133	1/2	15	8	203	12	5.4
1 1/2	40	10 1/4	279	5 1/4	133	1/2	15	8	203	13	5.9
2	50	8 5/8	219	5 1/4	133	1/2	15	7	178	10	4.5
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 1/4	210	1 1/2	40	12	305	40	18
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12	300	32	813	22 1/4	565	2	50	30	762	440	200
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16	400	41 1/8	1056	26 1/2	673	2	50	42	1067	1520	639
18	450	46	1168	34 3/8	886	2	50	50 7/8	1292	2060	934
20	500	49 1/2	1257	39	991	2	50	55 3/8	1407	2471	1120
24	600	58 3/8	1483	44 1/8	1122	2	50	67 1/4	1708	4500	2040



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Apply For Certified Drawings.

