Models: 781*, 781-WE*

Cast Carbon & Alloy Steel Flanged & Butt Weld End Y Strainers
Sizes: ½" – 24" (15 – 600mm)

Pressure/Temperature - Non-Shock		
Model	**Material**	**Rating**
781, 781-WE	Carbon Steel	285 psi @ -20 to 100°F 19.6 bar @ 38°C 150psi @ 565°F 10.2 bar @ 300°C
781, 781-WE	Chrome-Moly	290psi @ -20 to 100°F 19.8 bar @ 38°C 150psi @ 565°F 10.2 bar @ 300°C

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



Model 781-WE

* 781/781-WE supersedes model 761/741-WE. 761/761-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 150 specifications.
- Heavy gauge reinforced screens are used.

IMPORTANT NOTE: Model 781-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

		STANDARD (WATER)		STEAM RECOMMENDATION	
MODEL	**SIZES**	**MATERIAL**	**OPENING**	**MATERIAL**	**OPENING**
All	½" - 4"	304SS	.062 perf	304SS	.045 perf
All	5" and Up	304SS	.125 perf	304SS	.062 perf

Materials

	781, 781-WE
Body	Carbon Steel, ASTM A216 Grade WCB
Cover	Carbon Steel, ASTM A216 Grade WCB*
Gasket	Compressed Fiber

*Cover may also be manufactured from equivalent plate material.

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Mueller Steam Specialty™

ALSO AVAILABLE:

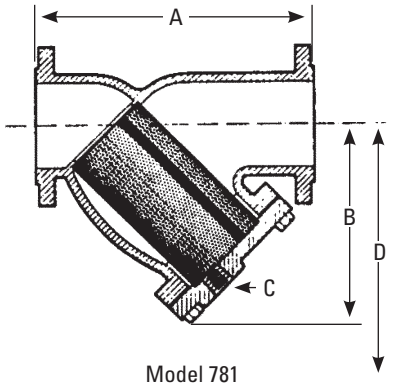
Body/Cap: Carbon-Moly ASTM A217 Gr. WC1
Chrome-Moly ASTM A217 Gr. WC6
Chrome-Moly ASTM A217 Gr. WC9

Pressure Drop

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

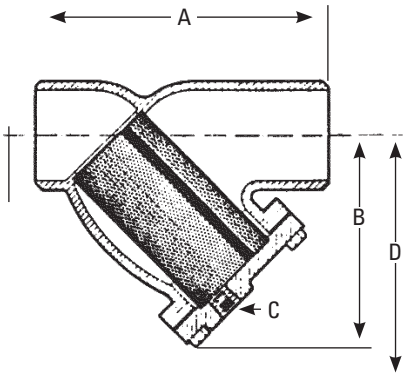
Dimensions and Weights

SIZE		DIMENSIONS								WEIGHT	
		A		B		C (NPT)		D Screen Removal			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
½	15	5⅞	149	3½	89	⅜	10	5	130	5.5	2.5
¾	20	7⅜	187	3¾	95	½	15	5	130	10.25	4.6
1	25	7⅜	187	3¾	95	½	15	5	130	10.25	4.6
1¼	32	7	178	4¾	121	½	15	7	178	9.75	4.4
1½	40	7⅛	181	4¾	121	½	15	7	178	12.5	5.6
2	50	7⅞	200	5¼	133	½	15	7	178	18	8.1
2½	65	9¾	248	6½	165	1	25	9¾	248	28	12.7
3	80	10 1⁄16	256	7	178	1	25	10	254	34	15
4	100	12⅛	308	8¼	210	1½	40	12	305	55	25
5	125	15⅝	397	11¼	286	2	50	20	508	90	40
6	150	18½	470	13½	343	2	50	20	508	153	69
8	200	21⅜	543	15½	394	2	50	22¾	578	220	100
10	250	26	660	18½	470	2	50	28	711	320	145
12	300	29⅞	759	22¼	565	2	50	30	762	550	250
14	350	36	914	25	635	2	50	36½	927	975	442
16	400	41 3⁄16	1056	26½	673	2	50	42	1067	1635	741
18	450	46	1168	34⅞	886	2	50	50⅞	1292	2376	1078
20	500	49½	1257	39	991	2	50	55⅜	1407	2675	1213
24	600	58⅜	1483	44⅛	1122	2	50	67¼	1708	4880	2213



Model 781

SIZE		DIMENSIONS								WEIGHT	
		A		B		C (NPT)		D Screen Removal			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
½	15	6⅝	168	3½	89	⅜	10	5	130	3	1.3
¾	20	8 5⁄16	211	3¾	95	½	15	5	130	9	4
1	25	8 5⁄16	257	3¾	95	½	15	5	130	9	4
1¼	32	10⅛	260	5¼	133	½	15	7	178	12	5.4
1½	40	10¼	279	5¼	133	½	15	7	178	13	5.9
2	50	10¼	219	5¼	133	½	15	7	178	10	4.5
2½	65	10⅝	269	6½	165	1	25	9¾	248	14	6.3
3	80	12	305	7	178	1	25	10	254	20	9
4	100	14½	368	8¼	210	1½	40	12	305	40	18
5	125	19 5⁄16	491	13½	343	2	50	20	508	90	40
6	150	19 5⁄16	491	13½	343	2	50	20	508	90	40
8	200	23⅜	594	15¾	400	2	50	22¾	578	168	76
10	250	27⅜	695	19	483	2	50	28	711	250	113
12	300	32	813	22½	565	2	50	30	762	440	200
14	350	36	914	25	635	2	50	36½	927	815	370
16	400	41⅛	1056	26½	673	2	50	42	1067	1433	650
18	450	46	1168	34⅞	886	2	50	50⅞	1292	2152	976
20	500	49½	1257	39	991	2	50	55⅜	1407	2393	1085
24	600	58⅜	1483	44⅛	1122	2	50	67¼	1708	4486	2034



Model 781-WE

Apply for certified drawing

Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Mueller Steam Specialty products previously or subsequently sold.

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