

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Basket, Conical and Plate Temporary Strainers

Models: 22, 23, 24

Sizes: $\frac{3}{4}$ " – 24"

Typical Service

- Mueller Steam Specialty Temporary Strainers provide effective and economical protection of pumps, valves, meters and other costly equipment.
- Temporary Strainers are used during piping system commissioning and startup to remove debris left in the line during construction.
- Temporary Strainers are often used as part of FME (Foreign Material Exclusion) programs during maintenance outages.
- Temporary Strainers should not be used in place of permanent strainers.
- Remove Temporary Strainers from pipelines after commissioning.

Standard Construction

- 11 Ga. / 1/8" Tk. Flange Ring - to fit ASME B16.5 Class 150 to Class 2500 (specify)
- 304 Stainless Steel Materials of Construction
- Conical Screen - 1/8" Perforations on 3/16" Diagonal Centers

Optional Construction

- Heavy Gauge Flange Rings, Special Machining, RTJ Male or RTJ Female, DIN Patterns, etc.
- Carbon steel, 316 SS and other alloys available on request.
- Many other Screening Options available.
 - Specify Perforation Sizes/Patterns on request.
 - Mesh Lined for Fine Straining – Specify Mesh Size and Inside or Outside.
 - Inverted Conicals (Cone-in-Cone) for High Open Area Ratios.
 - Reinforced construction for high flows/differential pressure



22 Basket Type



23 Conical Type

NOTICE

Flow Direction for conicals:

Inside Out: Flow enters at flange and exits by diffusing through conical section.

Outside In: Flow enters through the perforated portion and exits at the flange.



24 Plate Type

Installation

- These units are installed between flanges.
- Ideal for applications where space restrictions are a factor.

Pressure Drop

- Consult factory. Specify size(s), Perf and Mesh Options and Flow information for:
 - Liquids: Flow Rate and Specific Gravity.
 - Gases: Flow in SCFM, Specific Gravity vs. Air, Operating Temperature and Pressure.
 - Steam: Flow Rate in Pounds/Hour, Pressure, Temperature (or saturated).
 - All: Direction of Flow – Inside Out or Outside In.

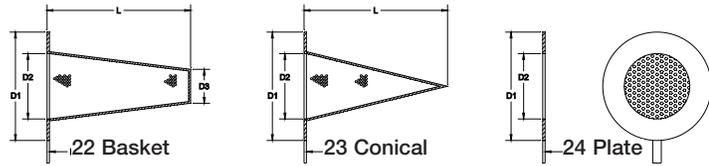
Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, 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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Dimensions and Weights

Model 24 (Plate)



SIZE		D1 (RING OD)						D2	
		150#		300#		600#			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1-1/2	38	3-1/4	83	3-5/8	92	3-5/8	92	1-3/4	44
2	50	4	100	4-1/4	108	4-1/4	108	2-1/4	57
2-1/2	65	4-3/4	121	5	125	5	125	2-5/8	67
3	80	5-1/4	83	5-3/4	146	5-3/4	146	3-1/4	83
4	100	6-3/4	171	7	178	7-1/2	191	4-1/4	108
6	150	8-5/8	219	9-3/4	248	10-3/8	264	6-1/4	159
8	200	10-7/8	276	12	300	12-1/2	318	8-1/4	210
10	250	13-1/4	337	14-1/8	359	15-5/8	397	10-1/4	260
12	300	16	400	16-1/2	419	17-7/8	454	12-1/4	311
14	350	17-5/8	448	19	483	19-1/4	489	14	350
16	400	20-1/8	511	21-1/8	537	22-1/8	562	16	400
18	450	21-1/2	546	23-3/8	594	24	600	18	450
20	500	23-3/4	603	25-3/8	651	26-3/4	679	20	500
24	600	28-1/8	714	30-3/8	772	31	787	24	600

Models 22 (Basket), 23 (Conical)

D2		D1 (RING OD)				MODEL 22 (BASKET) W/STD: L=					D3	MODEL 23 (CONICAL) W/STD: L=				
		150#	600#	900#	1500#	100% O.A.	150%	200%	300%	BOTTOM DIA.	100% O.A.	150%	200%	300%		
in.	mm	300#														
3/4	20	0.63	2.13	2.5	2.63	2.63	2.00	-	-	2.25	0.38	2.25	2.25	3.00	3.37	
1	25	0.75	2.50	2.75	3.00	3.00	2.00	-	-	3.37	0.50	2.75	2.75	3.00	5.00	
1 1/2	40	1.25	3.25	3.63	3.75	3.75	2.75	-	3.00	4.50	0.75	3.19	4.00	5.00	6.75	
2	50	1.75	4.00	4.25	5.50	5.50	3.00	-	4.00	6.00	1.00	3.50	6.00	8.00	9.13	
2 1/2	65	2.25	4.75	5.00	6.38	6.38	3.19	-	4.50	6.75	1.25	4.06	6.25	8.00	10.13	
3	80	2.75	5.25	5.75	6.50	6.75	3.50	3.88	5.50	8.50	1.50	4.25	6.75	9.00	12.75	
4	100	3.75	6.75	7.5	8.00	8.13	4.00	5.00	7.00	11.00	2.00	5.00	10.00	12.00	16.13	
5	125	4.63	7.63	9.38	9.63	9.88	5.00	6.00	9.00	14.00	2.50	6.50	12.00	14.00	20.63	
6	150	5.38	8.63	10.38	11.25	11.00	6.00	7.00	11.00	17.00	3.00	7.50	13.00	18.00	25.63	
8	200	7.38	10.88	12.50	14.00	13.75	6.13	8.19	14.00	22.00	4.00	10.00	17.00	23.00	32.25	
10	250	9.38	13.25	15.63	17.00	17.00	7.50	12.00	18.00	27.00	5.00	12.50	22.00	28.00	40.00	
12	300	11.00	16.00	17.88	19.50	20.38	9.00	13.00	20.00	33.00	6.00	15.00	26.00	34.00	49.00	
14	350	12.25	17.38	19.00	20.38	22.63	10.00	15.00	21.00	36.00	7.00	16.50	27.00	36.00	54.00	
16	400	14.00	20.13	21.88	22.50	-	10.00	17.00	23.00	42.00	8.00	19.00	30.00	40.00	62.00	
18	450	15.75	21.25	23.75	25.00	-	12.00	19.00	27.00	47.00	9.00	22.00	35.00	46.00	71.00	
20	500	17.50	23.50	26.63	-	-	14.00	21.00	31.00	53.00	10.00	24.00	39.00	51.00	79.00	
24	600	21.25	27.88	30.88	-	-	16.00	25.00	37.00	64.00	12.00	29.00	45.00	61.00	94.88	

% Open area: Conical with standard 1/8" Dia. Holes on 3/16" centers, compared to cross sectional area of inlet. Dimensional Tolerances: Diameters ± 1/16"; Lengths ± 1/8"

NOTICE

- For mesh lined cones, it is critical to specify flow direction. For inside out flow, mesh is placed inside the temporary strainer. For outside in flow, mesh is placed on the outside of the strainer.
- Standard dimensions to fit Schedule STD and XS pipe. For heavier pipe schedules, consult factory.
- Table represents standard dimensions. Alternate dimensions available on request.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Limited Warranty: Mueller Steam Specialty warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Any implied warranties that are imposed by law are limited in duration to one year.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights.



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