

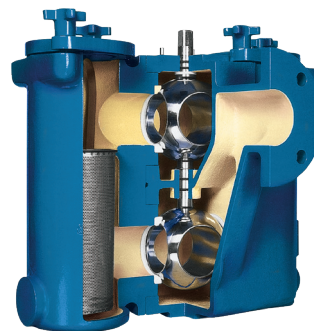
Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Ball-Plex™ Carbon Steel Screwed End Duplex Strainers

Models: 792SD, Class 150
794SD, Class 300
Sizes: 3/4" - 3" (20 - 80mm)



Model 792SD

Strainers provide economical protection for costly pumps, meters, valves, and other similar mechanical equipment by straining foreign matter from the connected piping system. Installation of a strainer before mechanical equipment can ensure trouble free service and avoid costly shutdowns for repair or replacement of equipment damaged by foreign matter. The size of the perforation or mesh in the basket screen will determine the smallest particles captured. See Strainer Information section of the Mueller Steam Specialty Engineering binder for detailed information including sizes and materials available.

Typical Service

- Duplex Strainers are designed for use in fluid handling systems where the flow cannot be shut down for basket cleaning.
- Typical services include cooling water, compressors, condensers, fire lines, fuel lines, lubrication systems, salt and fresh water systems, chemical process systems, pump suction service, and more.
- Consider strainer body and screen material as well as gasket and seat materials for suitability for particular service.

Features

- Ball-Plex™ Duplex Strainers use 3-way balls as the diverter valves.
- Balls are 316SS for corrosion resistance, strength, and resistance to build-up of solids on the balls' surfaces.
- PTFE seats provide bubble-tight sealing, superior to metal seats in other designs. This eliminates potentially dangerous leakage into the chamber being cleaned.
- Two part body casting allows true and easy in-line service.
- After removal of the cover and basket, all working parts are easily accessible even with the unit in line.
- The handle covers the pressurized chamber. This prevents accidental opening of the pressurized chamber, and allows easy access to the chamber to be cleaned.

Pressure/Temperature - Non-Shock		
Model	Material	Rating
792SD	Carbon Steel	285psi @ -20 to 100°F 19.65 bar @ 37.78°C 260psi @ 200°F 17.93 bar @ 93.33°C
794SD	Carbon Steel	740psi @ -20 to 100°F 51.02 bar @ 37.78°C 680psi @ 200°F 46.88 bar @ 93.33°C

Max. temp. can be limited by gasket and seat material. Consult factory.

Baskets

- Large open area ratios ensure minimum pressure drop across the unit.
- See the Technical Data Section of the Mueller Steam Specialty Engineering binder for Pressure Drop Charts.

⚠ WARNING

Bolted Covers required above 150 psi or 200°F.

STANDARD (WATER)			
MODEL	SIZES	MATERIAL	OPENING
792SD, 794SD	3/4" - 3"	304SS	.062 perf.

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.

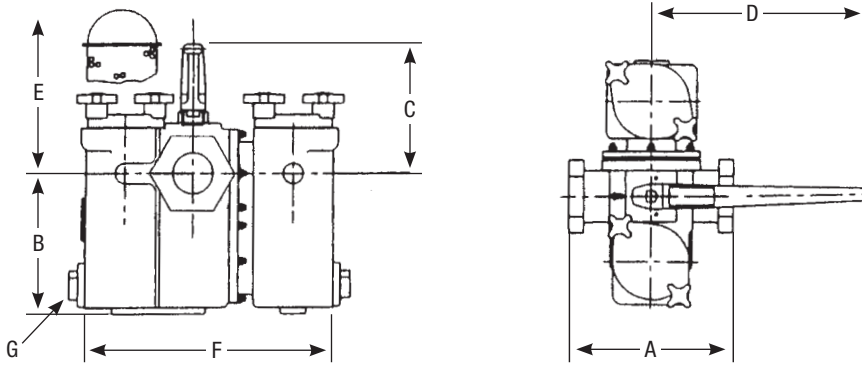
Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction,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



Material

792SD, 794SD	
Body	Carbon Steel, ASTM A216-WCB
Cover/Cap	Carbon Steel
Seats	PTFE
O-Rings	Buna-N

Dimensions and Weights



Models 792SD, 794SD

SIZE		DIMENSIONS										WEIGHT					
		A		B		C		D		E Screen Removal		F		G (NPT)			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
¾	20	5½	140	4 ¹⁵ / ₁₆	125	4 ⁵ / ₈	118	10	254	7¾	197	10 ³ / ₁₆	259	¾	20	32	14.5
1	25	5½	140	4 ¹⁵ / ₁₆	125	4 ⁵ / ₈	118	10	254	7¾	197	10 ³ / ₁₆	259	¾	20	32	14.5
1¼	32	7½	191	6¾	171	4¾	111	10	254	10¾	264	12¾	324	1¼	32	58	26.3
1½	40	7½	191	6¾	171	4¾	111	10	254	10¾	264	12¾	324	1¼	32	57	25.8
2	50	10	254	8¾	208	7⅞	181	20	508	12¾	321	16¾	416	1¼	32	115	52.1
2½	65	11½	292	12	309	8 ¹ / ₁₆	205	20	508	17 ¹¹ / ₁₆	449	20¾	518	1½	40	198	89.7
3	80	11½	292	12	309	8 ¹ / ₁₆	205	20	508	17 ¹¹ / ₁₆	449	20¾	518	1½	40	198	89.7

Apply for Certified Drawings

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.

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