

For Industrial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Model: 791USA

UL Listed Ball-Plex™ Cast Iron Screwed Ends Duplex Strainers

Sizes: ¾" – 3" (20 – 80mm)

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.

Baskets

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



Model 791USA

Pressure/Temperature - Non-Shock		
Model	Material	Rating
791USA	Cast Iron	175psi @ -20°F to 150°F 12.07 bar @ 65.56°C 150psi @ 250°F 10.34 bar @ 121.11°C

791USA

Class 125

⚠ WARNING

Bolted Covers required above 150 psi or 200°F.

MODEL	SIZES	STANDARD (WATER)	
		MATERIAL	OPENING
791USA	¾" – 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.

Mueller Steam Specialty™

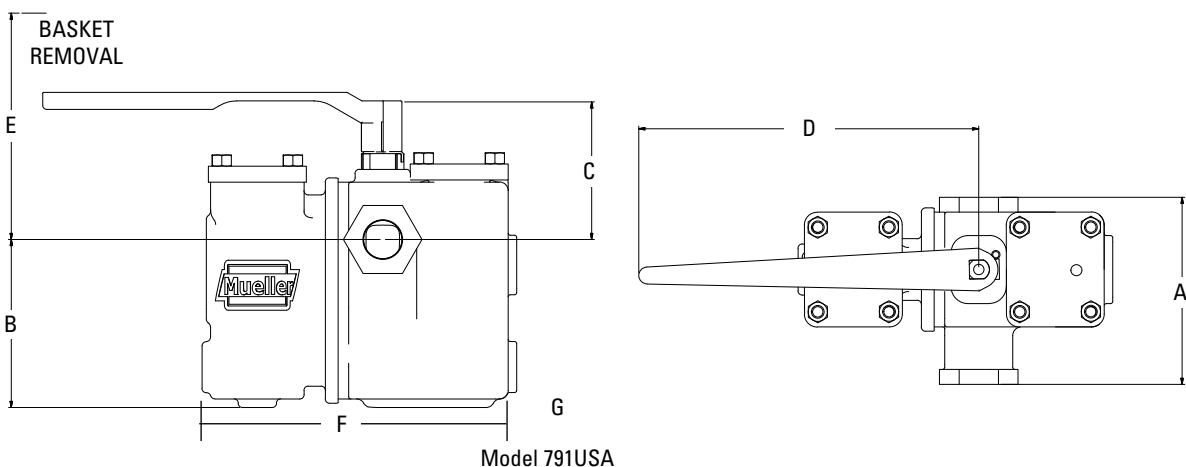
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Materials

791USA	
Body	Cast Iron ASTM A126-B
Cover	Cast Iron ASTM A126-B
Seats	PTFE
O-Rings	Buna-N

*Cover may also be manufactured from equivalent plate material.

Dimensions and Weights



SIZE		DIMENSIONS										WEIGHT					
		A		B		C		D		E Screen Removal		F		G (NPT)			
<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>
¾"	20	5½"	140	4⅞ ₁₆	125	4⅞ ₈	118	10	254	7¾"	197	10⅞ ₁₆	259	¾"	20	30	13.6
1"	25	5½"	140	4⅞ ₁₆	125	4⅞ ₈	118	10	254	7¾"	197	10⅞ ₁₆	259	¾"	32	30	13.6
1¼"	32	7½"	191	6¾"	171	4⅞ ₈	111.1	10	254	10⅞ ₈	264	12¾"	324	1¼"	32	53	24
1½"	40	7½"	191	6¾"	171	4⅞ ₈	111.1	10	254	10⅞ ₈	264	12¾"	324	1¼"	32	54	24
2"	50	10	254	8⅞ ₁₆	208	7⅞ ₈	181	20	508	12⅞ ₈	321	16⅞ ₈	416	1¼"	40	105	47
2½"	65	11½"	292	12	309	8⅞ ₁₆	205	20	508	17⅞ ₁₆	449	20⅞ ₈	518	1½"	40	195	88
3"	80	11½"	292	12	309	8⅞ ₁₆	205	20	508	17⅞ ₁₆	449	20⅞ ₈	518	1½"	40	200	90

Apply For Certified Drawings.



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