

For Industrial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Model: 791UFA

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

Sizes: 3/4" – 3" (20 – 80mm)

Sizes: 4" – 6" (100 – 150mm)

pending approval from UL

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 Technical Data section of the Mueller Steam Specialty Engineering binder for pressure drop charts.



Model 791UFA

Pressure/Temperature - Non-Shock		
Model	Material	Rating
791UFA	Cast Iron	200psi @ -20°F to 150°F
		13.79 bar @ 65.56°C
		175psi @ 250°F
		12.07 bar @ 121.11°C

791UFA

Class 125

⚠ WARNING

Bolted Covers required above 150 psi or 200°F.

MODEL	SIZES	STANDARD (WATER)	
		MATERIAL	OPENING
791UFA	3/4" – 3", **4	304SS	.062 perf
	**5" – 6"	304SS	.125 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™

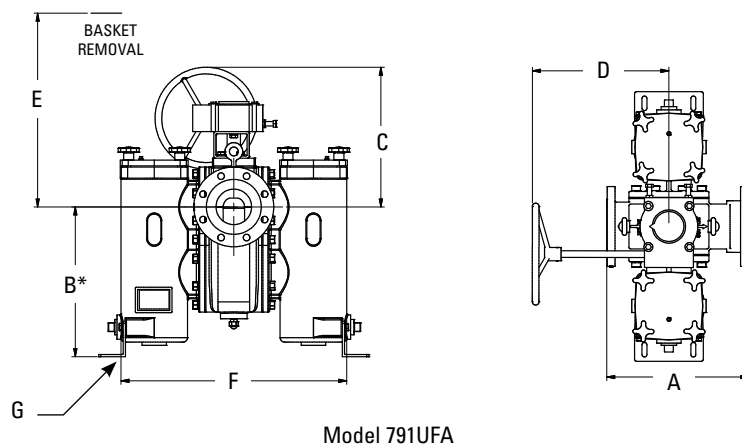
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Materials

791UFA	
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



* "B" dimension includes the floor supports when applicable.

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>
¾	19	6⅞	175	4⅛	125	4⅞	118	10	254	7¾	197	10⅜	259	¾	20
1	25	6⅞	175	4⅛	125	4⅞	118	10	254	7¾	197	10⅜	259	¾	20
1¼	32	9⅞	238	6¾	171	4⅞	111	10	254	10⅞	264	12¾	324	1¼	32
1½	40	9⅞	238	6¾	171	4⅞	111	10	254	10⅞	264	12¾	324	1¼	32
2	50	10⅞	270	8⅜	208	7⅞	181	20	508	12⅞	321	16⅞	416	1½	40
2½	65	13½	343	12	305	8⅞	205	20	508	17⅞	448	20⅞	518	1½	40
3	80	13½	343	12	305	8⅞	205	20	508	17⅞	448	20⅞	518	1½	40
4††	100	16	406	16⅜	427	15½	394	14+	356	23½	597	24½	622	1½	40
5††	125	22	559	18⅞	473	17¼	438	14+	356	25⅛	653	26¼	667	1½	40
6††	150	22	559	18⅞	473	17¼	438	14+	356	25⅛	653	26¼	667	1½	40

** Sizes 4 inch and higher pending approval from UL.



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