

FEATURES

- Simple changeover operation
- Compact Design
- Large filtration areas giving low pressure drops
- Quick release filter covers and knobs for easy maintenance
- No contamination between filtered and unfiltered liquids
- Wide range of materials, sizes and accessories
- Handle covers chamber in use, preventing opening of pressurized chamber

APPLICATIONS

Colton Industries Duplex Strainers are designed for use in fluid handling systems where the flow cannot be shut down for basket cleaning. Some applications include:

- Cooling Water
- Compressors
- Condensors
- Fire Lines
- Fuel Lines
- Lubricating Systems
- · Salt and Fresh Water Systems
- Chemical Process Systems
- Positive Suction Head Service



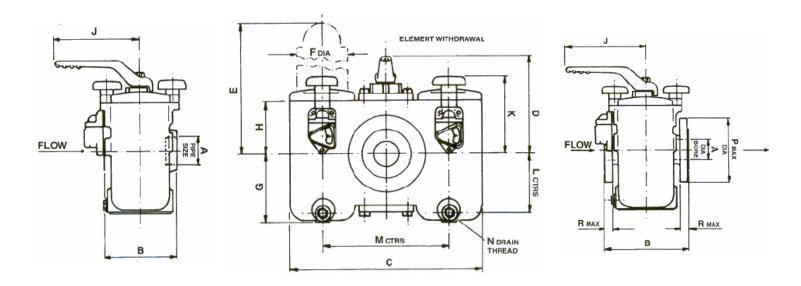
MATERIALS AND PRESSURE & TEMPERATURE RATINGS

MODEL	691S-AA 691F-AA	691S-AB 691F-AB	691S-AH 691F-AH	692S-BB 692F-BB	692S-DA 692F-DA 694F-DA	692S-DH 692F-DH	692S-HH 692F-HH 694F-HH
Body & Cover Material	Cast Iron BS1452 grade 220 min	Cast Iron BS1452 grade 220 min	Cast Iron BS1452 grade 220 min	Bronze BS1400 LG4C	Cast Steel BS1504-161 grade 480	Cast Steel BS1504-161 grade 480A	Cast Stn. Stl. BS1504 grade 316 C16
Sleeve	Not Applicable	Bronze BS1400 LG2C	Not Applicable	Not Applicable	Not Applicable	Bronze BS1400 LG2C	Not Applicable
Changeover Plugs	SG Iron BS2789 grade 420/12	Bronze BS1400 LG2C	Stn. Stl. BS1504 grade 316 C16 (PTFE Coated)	Bronze BS1400 LG2C	SG Iron BS2789 grade 420/12	Stn. Stl. BS1504 grade 316 C16 (PTFE Coated)	Stn. Stl. BS1504 grade 316 C16 (PTFE Coated)
Internal Machine Parts	Mild Steel BS970 220 M07	Stn. Stl. BS970 303 S31	Stn. Stl. BS970 303 S31	Phospher Bronze BS1400 grade PB1	Mild Steel BS970 220 M07	Stn. Stl. BS970 303 S31	Stn. Stl. BS970 303 S31
Baskets	304 Stn. Stl.						
Drain Plugs	Brass	Brass	Stn. Stl.	Bronze	Mild Steel	Brass	Stn. Stl.
Seals	Viton -30°F to 390°F						
Maximum Working Pressure at 100°F	250 psi/691 series	250 psi/691 series	200 psi/691 series 250 psi/693 series	250 psi	320 psi/692 series 740 psi/694 series	320 psi/692 series 740 psi/694 series	320 psi/692 series 740 psi/694 series
Maximum Working Temperature	390°F (Higher available depending on seat material)	390°F (Higher available depending on seat material)	390°F (Higher available depending on seat material)	390°F (Higher available depending on seat material)	390°F (Higher available depending on seat material)	390°F (Higher available depending on seat material)	390°F (Higher available depending on seat material)
Body Color	Red	Blue	Blue	Natural	Silver	Silver	Natural



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DIMENSIONS

NPT (THREADED) ENDS

Pipe Size A	В	С	D	E	F	G	Н	J	К	L	M	N	Weight (Cast Iron)
3/4	4-3/4	10-5/8	5-7/8	8-11/16	2-7/8	4-1/8	2-1/2	6-7/8	4	3-3/8	6-11/16	1/2	29lb
1	4-3/4	10-5/8	5-7/8	8-11/16	2-7/8	4-1/8	2-1/2	6-7/8	4	3-3/8	6-11/16	1/2	29lb
1-1/4	5-3/8	11-3/16	6-7/8	12	2-7/8	5-3/4	3-1/2	6-7/8	5	4-13/16	7-1/4	1/2	42lb
1-1/2	5-3/8	11-3/16	6-7/8	12	2-7/8	5-3/4	3-1/2	6-7/8	5	4-13/16	7-1/4	1/2	42lb
2	7-1/4	16-3/4	8-3/4	13-13/16	4-1/2	6-1/8	4-13/16	8-1/4	6-1/2	5-1/8	11	1/2	108lb
2-1/2	7-1/4	16-3/4	8-3/4	13-13/16	4-1/2	6-1/8	4-13/16	8-1/4	6-1/2	5-1/8	11	1/2	108lb

FLANGED ENDS

Pipe Size A	В	С	D	E	F	G	Н	J	К	L	M	N	Р	R	Weight (Cast Iron)
1	6	10-5/8	5-7/8	8-3/4	2-7/8	4-1/8	2-1/2	6-7/8	4	3-3/8	6-5/8	1/2	4-7/8	5/8	35lb
1-1/2	6-7/8	11-3/16	6-7/8	12	2-7/8	5-3/4	3-1/2	6-7/8	5	4-3/4	7-1/4	1/2	6-1/8	5/8	49lb
2	8-1/4	16-3/4	8-3/4	13-3/4	4-1/2	6-1/8	4-3/8	8-1/4	6-1/2	5-1/8	11	1/2	6-1/2	3/4	115lb
2-1/2	8-1/4	16-3/4	8-3/4	13-3/4	4-1/2	6-1/8	4-3/8	8-1/4	6-1/2	5-1/8	11	1/2	7-1/2	3/4	117lb
3	10-1/2	19-1/4	10-1/16	17-3/4	5-1/4	8-1/4	5-1/2	9-7/8	7-3/4	7	13	1/2	8-1/4	7/8	172lb
4	12-1/2	21-1/4	11-9/16	22-5/8	5-1/4	10-7/16	6-7/8	9-7/8	9-1/8	9-1/2	15	1/2	10	7/8	242lb
*6	18-9/16	23-1/2	13-9/16	22-5/8	5-1/8	10-9/16	9-1/32	15	11-1/4	8-7/8	15-3/4	1/2	12-1/2	1	550lb
8	22	40-1/8	21-3/4	47-5/8	9-3/4	22-1/2	15-3/8	17-1/4	18-1/2	18-1/2	27-1/2	1/2	15	1-3/16	1251lb

Notes: All dimensions are in inches.

Optional differential pressure indicators are mounted on the ends of the chambers in the sizes 3/4" through 1-1/2". Add 3" to dimension "C" for clearance purposes if you choose this option.

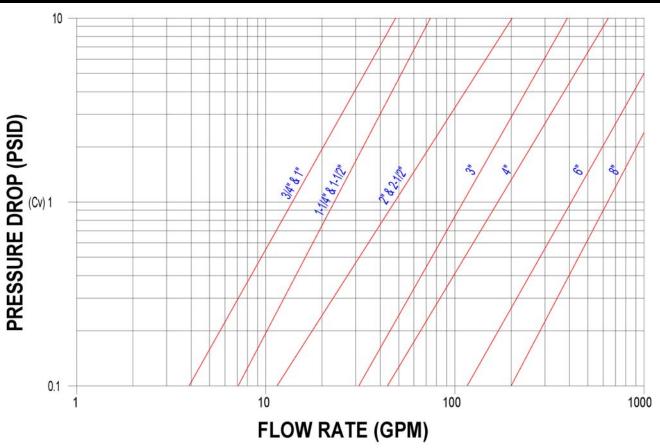
Colton has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice



^{*} The 6" flanged unit is not as shown in picture. The 6" unit has a multi-basket arrangement (total of 4 four screens, instead of the standard 2)



PRESSURE DROP CURVES



PRESSURE DROP CORRECTION FACTORS

Correction Factors for various meshes and viscosities:

Specific Gravity: Multiply pressure drop obtained from chart by the

specific gravity of the liquid

Mesh Lining: Multiply pressure drop obtained from chart by the following:

Viscosity: Divide pressure drop obtained from the chart by the following:

Example:

50 gpm of #6 fuel oil through a 4" duplex basket strainer with 40 mesh lined screens.

On the chart we read that 50 gpm of water through a 4" strainer produces a 0.120 psid pressure drop. Correcting for specific gravity – 0.90, Viscosity – 5000 ssu, and 40 mesh lining – 1.15

Pressure Drop x Specific Gravity x Correction for Mesh Lining Correction For Viscosity

Thus: $0.120 \times 0.90 \times 1.15 \div 0.29 = 0.43 \text{ psid}$

50	.85	800	.42
60	.82	900	.41
70	.79	1000	.39
80	.77	2000	.35
90	.72	3000	.33
100	.70	4000	.31
150	.62	5000	.29
200	.57	6000	.285
300	.52	7000	.28
400	.48	8000	.275
500	.46	9000	.27
600	44	10000	26

Factor



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Factor



ACCESSORIES

Differential Pressure Indicator

Colton's own purpose-designed product, which indicates when the baskets require cleaning, takes the guesswork out of maintenance. Indicator body has anodized aluminum body as standard. (Stainless steel body and internals also available)

Heating Jacket

To aid the flow of viscous liquids, etc....

100% Shut-Off On Changeover

This can be achieved by the use of a special seal within the changeover plug mechanism and eliminates leakage between chambers during cleaning

Automatic Air Eliminators

To vent air from filter, eg. after element cleaning

Magnetic Inserts

Suspended from the cover to capture metallic particles. Magnets can be nylon coated if required

Mounting Studs or Brackets

To allow the filter to be independently supported

Pressure Equalizing Valves

Are fitted to sizes 5", 6" and 8" as standard but can be fitted to other sizes on request.

ORDERING CODES

	BASIC MODEL NUMBER	CONNECTIONTYPE	-	BODY MATERIAL	PLUG MATERIAL	SPECIAL FEATURE
Example:	691	F	-	Α	В	Х
	691 (ANSI 125#) 692 (ANSI 150#) 694 (ANSI 300#)	S – NPT ends F – Flanged Ends		A – Cast Iron B – Bronze D – Cast Carbon Steel H – Cast Stainless Steel	A – Cast Iron B – Bronze H – Stainless Steel	Issued By Factory

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