



## NEW PRODUCT PREVIEW

### NEW MATERIAL!

## SB Series Simplex Basket Strainers

1/2" TO 4" PLATINUM GFPP

### KEY FEATURES AND BENEFITS

- Platinum Glass Filled Polypropylene Construction
- FPM or EPDM O-Rings and Seals
- Ideal for Sensitive Media and Corrosive Applications
- Liquid Displacing Cover Design
- Ergonomic Hand-Removable Cover
- External Cover Threads
- In-Line or Loop Connections
- Integral Flat Mounting Bases
- Pressure Rating of 150 PSI at 70°F Non-Shock
- 1/32 Perf PP Baskets Standard for 1/2" – 1" Sizes
- 1/8 Perf PP Baskets Standard for 1-1/4" – 4" Sizes

### OPTIONS AND ACCESSORIES

- Stainless Steel, Monel®, Hastelloy® and Titanium Strainer Baskets
- Duplex Configuration
- Pressure Differential Gauge
- Stainless Steel Baskets Available with Mesh Liner

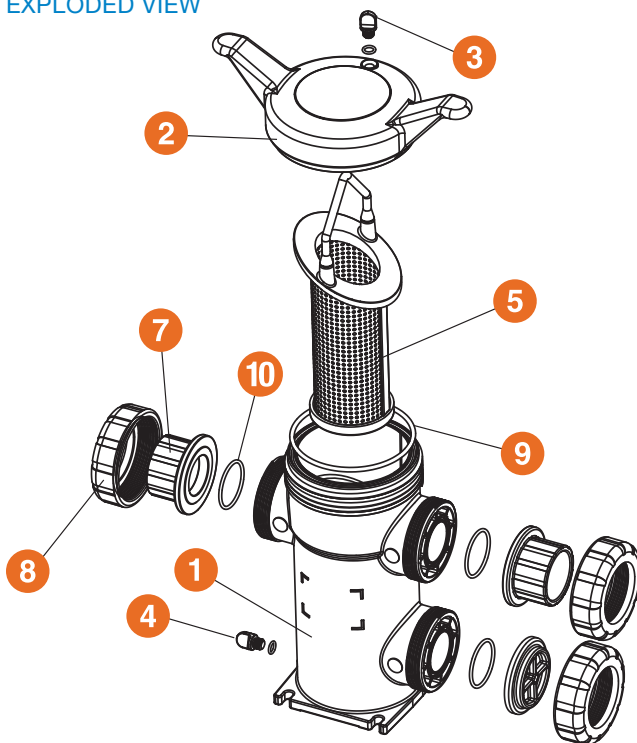
### TYPICAL APPLICATIONS

- Water and Wastewater Treatment
- Desalination, RO and Deionized Water Systems
- Chemical Processing
- Food and Beverage
- Aquatic and Animal Life Support Systems
- Metal Finishing and Plating
- Marine and Corrosive Environments

### MATERIALS

- GFPP Cell Class 85580 per ASTM D4101
- Heavy Duty FPM or EPDM O-Ring Seals

### EXPLODED VIEW

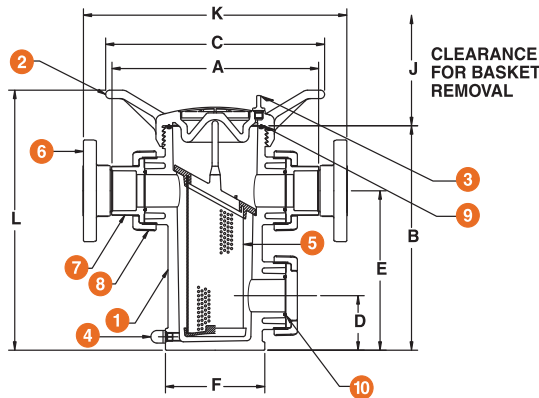


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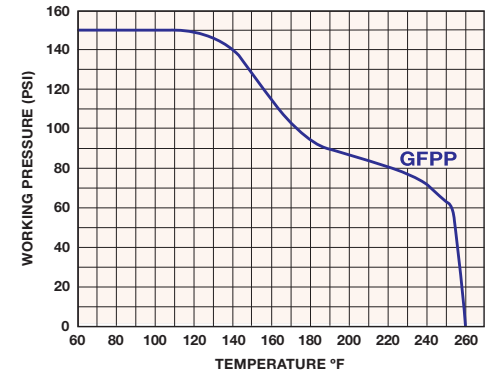
1/2" TO 4" PLATINUM GFPP

## PARTS LIST

1. Body - GFPP
2. Cover - GFPP
3. Vent Plug and O-Rings
4. Drain Plug and O-Rings
5. Basket - PP
6. Flange (Optional)
7. End Connector - GFPP
8. Nut - GFPP
9. Cover O-Ring
10. End Connector O-Rings



## OPERATING TEMPERATURE/PRESSURE



## DIMENSIONS – INCHES/MILLIMETERS

SIZE in/DN	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm	J in/mm	K in/mm	L in/mm	WEIGHT lbs/kg		VOLUME gal/LT
										THD	FLANGED	
1/2/15	8.64/219	9.63/245	11.00/279	2.25/57	6.75/171	4.31/109	8.00/203	10.77/274	11.70/297	8.00/3.63	9.00/4.08	.20/.76
3/4/20	8.64/219	9.63/245	11.00/279	2.25/57	6.75/171	4.31/109	8.00/203	11.02/280	11.70/297	8.00/3.63	9.00/4.08	.20/.76
1/25	8.64/219	9.63/245	11.00/279	2.25/57	6.75/171	4.31/109	8.00/203	11.64/296	11.70/297	8.00/3.63	9.00/4.08	.20/.76
1-1/4/32	12.75/324	13.38/340	13.50/343	3.25/83	9.50/241	6.13/156	12.86/327	15.63/397	15.50/394	14.00/6.35	16.50/7.48	.70/2.65
1-1/2/40	12.69/322	13.38/340	13.50/343	3.25/83	9.50/241	6.13/156	12.86/327	15.89/403	15.50/394	14.00/6.35	16.50/7.48	.70/2.65
2/50	12.75/324	13.38/340	13.50/343	3.25/83	9.50/241	6.13/156	12.86/327	16.29/413	15.50/394	14.00/6.35	16.50/7.48	.70/2.65
2-1/2/63	16.52/420	19.83/504	16.00/406	4.83/123	14.83/377	7.25/184	17.25/438	21.02/534	22.30/566	28.00/12.70	33.00/14.97	2.80/10.60
3/80	16.40/417	19.83/504	16.00/406	4.83/123	14.83/377	7.25/184	17.25/438	20.36/517	22.30/566	28.00/12.70	33.50/15.20	2.80/10.60
4/100	17.27/439	19.83/504	16.00/406	4.83/123	14.83/377	7.25/184	17.25/438	22.13/562	22.30/566	28.00/12.70	37.00/16.78	2.80/10.60

## PRESSURE DROP CALCULATIONS

### BASKET PERFORATION CORRECTION FACTORS

For 1/2" to 4" Strainers

Plastic		Stainless Steel	
1/32"	1.05	1/32"	.82
1/16"	1.00	1/16"	.74
1/8"	.58	1/8"	.58
3/16"	.46	5/32"	.37
		3/16"	.46
		1/4"	.58
		3/8"	.45
		1/2"	.48
		20 Mesh	.79
		40 Mesh	1.01
		60 Mesh	1.20
		80 Mesh	1.16
		100 Mesh	1.20
		200 Mesh	1.09
		325 Mesh	1.22

### PRESSURE LOSS CALCULATION FORMULA

The pressure drop across the strainer, for water or fluids with a similar viscosity, can be calculated using the formula at the right:

$$\Delta P = \left[ \frac{Q}{Cv} \right]^2$$

$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $Cv$  = Flow Coefficient

## Cv FACTORS

SIZE in/DN	FACTORS	SIZE in/DN	FACTORS
1/2/15	15	2/50	60
3/4/20	18	2-1/2/63	290
1/25	20	3/80	300
1-1/4/32	55	4/100	350
1-1/2/40	58		

The above Cv Factors were determined using a 1/16" perforated plastic basket in 1/2" through 4" strainers.

To calculate pressure drop through vessels using other than 1/16" perforated baskets, first calculate the pressure drop using the listed Cv, and then multiply the result by the correction factor in the Correction Factors chart to the left.



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