



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

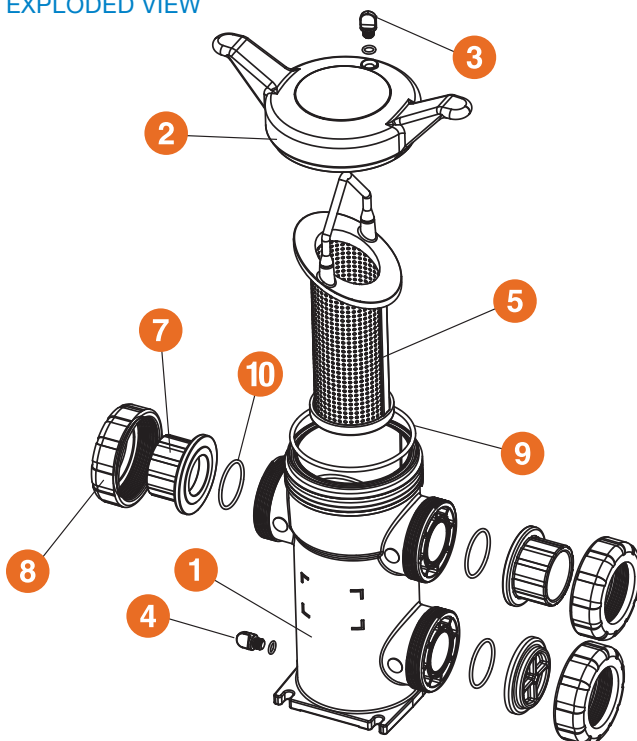
TYPICAL APPLICATIONS

- 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



SB Series Simplex Basket Strainers

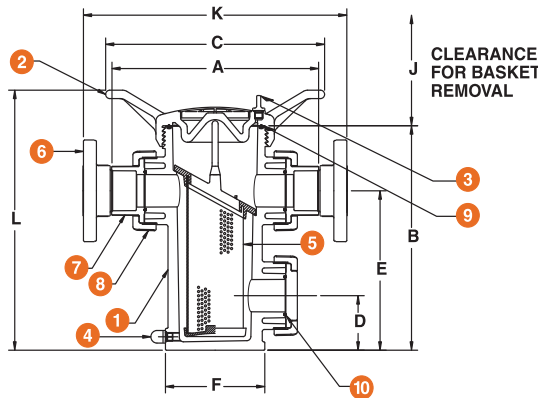
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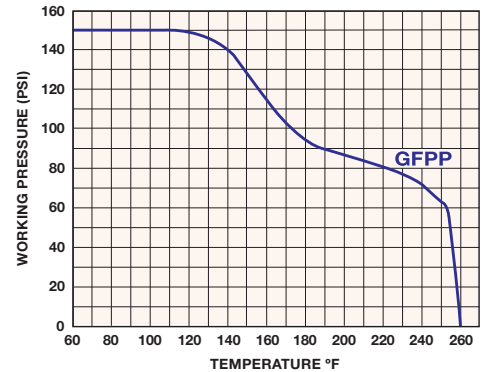
www.monarchindustrial.com.au
www.monarchasiapacific.com.au

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:

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

ΔP = 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.