



SB Series Simplex Basket Strainer

1/2" TO 2" NATURAL PVDF

KEY FEATURES

- NEW Natural PVDF
- True Union Design
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVDF Basket Standard

OPTIONS

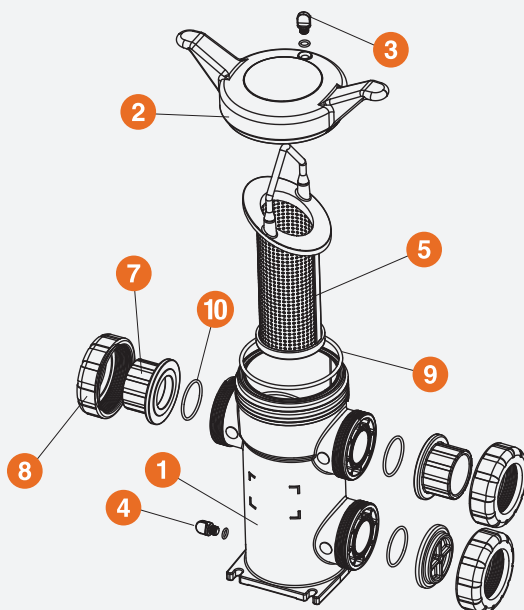
- Stainless Steel, Monel®, Hastelloy® and Titanium Strainer Baskets
- Pressure Differential Gauge and Switch
- Stainless Steel Baskets Available with Metal Mesh Liners

MATERIALS

- Natural PVDF per ASTM D3222 Type 1
- FPM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW



SELECTION CHART

SIZE*	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2" – 2" (DN15 – DN50)	PVDF	Socket Fusion, Threaded	FPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock
1" – 2" (DN25 – DN50)	PVDF	Flanged	FPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock



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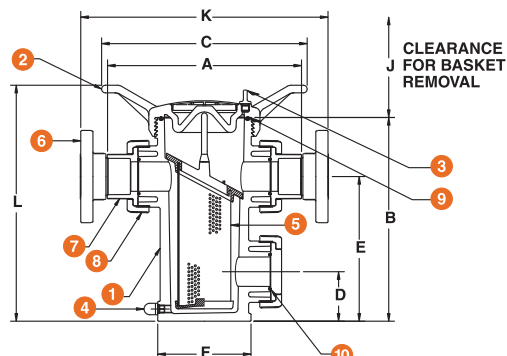
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TECHNICAL INFORMATION, CONTINUED

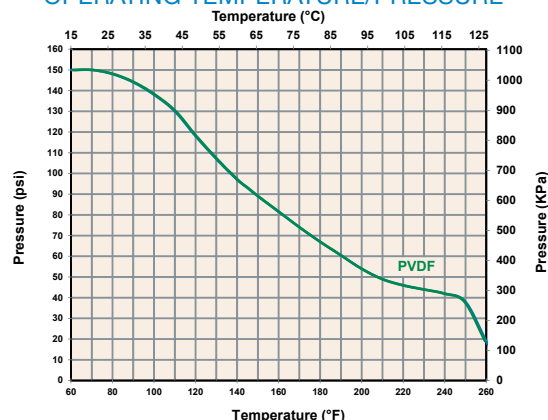
PARTS LIST

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

*Only 2" available with Flanged Ends



OPERATING TEMPERATURE/PRESSURE



DIMENSIONS

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
										SOC / THD	FLANGED	
1/2 / 15	8.33 / 212	9.47 / 241	10.70 / 272	2.20 / 56	6.63 / 168	4.22 / 107	8.00 / 203	-	11.63 / 295	6.50 / 2.95	-	.20 / .76
3/4 / 20	8.54 / 217	9.47 / 241	10.70 / 272	2.20 / 56	6.63 / 168	4.22 / 107	8.00 / 203	-	11.63 / 295	6.50 / 2.95	-	.20 / .76
1 / 25	8.60 / 218	9.47 / 241	10.70 / 272	2.20 / 56	6.63 / 168	4.22 / 107	8.00 / 203	11.1 / 282	11.63 / 295	6.50 / 2.95	7.5 / 3.40	.20 / .76
1-1/4 / 32	12.62 / 321	13.13 / 334	13.12 / 333	3.23 / 82	9.35 / 237	6.02 / 153	12.86 / 327	-	15.40 / 391	17.00 / 7.71	-	.70 / 2.65
1-1/2 / 40	12.53 / 318	13.13 / 334	13.12 / 333	3.23 / 82	9.35 / 237	6.02 / 153	12.86 / 327	15.53 / 394	15.40 / 391	17.00 / 7.71	19.5 / 8.85	.70 / 2.65
2 / 50	12.58 / 320	13.13 / 334	13.12 / 333	3.23 / 82	9.35 / 237	6.02 / 153	12.86 / 327	15.94 / 395	15.40 / 391	17.00 / 7.71	19.5 / 8.85	.70 / 2.65

Dimensions are subject to change without notice – consult factory for installation information

PRESSURE DROP CALCULATIONS

BASKET PERFORATION CORRECTION FACTORS

For 1/2" to 2" 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
		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:

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

ΔP = Pressure Drop
 Q = Flow in GPM
 C_v = Flow Coefficient

Cv VALUES

SIZE in / DN	Cv VALUES
1/2 / 15	15
3/4 / 20	18
1 / 25	20
1-1/4 / 32	55
1-1/2 / 40	58
2 / 50	60

The above Cv Values were determined using a 1 / 16" perforated plastic basket in 1/2" through 2" 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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