NSF

PVC and CPVC

SB Series Simplex Basket Strainers

6″ TO 8″ PVC AND CPVC

KEY FEATURES

- PVC and CPVC
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVC or CPVC Baskets Standard

OPTIONS

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

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

BASKET OPTIONS

PERFORATION SIZES	MESH SIZES	BASKET MATERIAL
1/32″	20	SSTL, Hastelloy, Monel and Titanium
1/16″	40	
1/8″	60	
5/32″	80	
3/16″	100	
1/4″	200	
3/8″	325	
1/8″	N/A	PVC, CPVC and PP
3/16″		

SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
6″–8″ (DN150 – DN200)	PVC or CPVC	Flanged	FPM or EPDM	150 PSI @ 70°F Non-Shock

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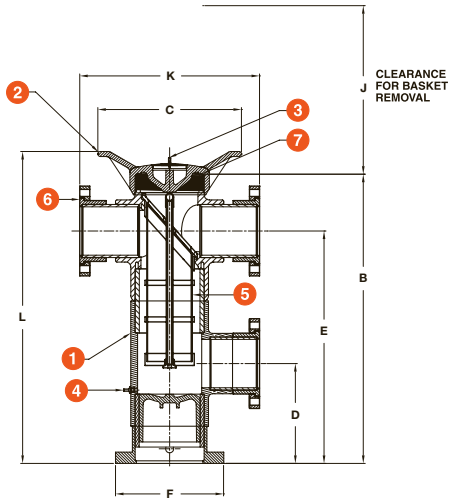
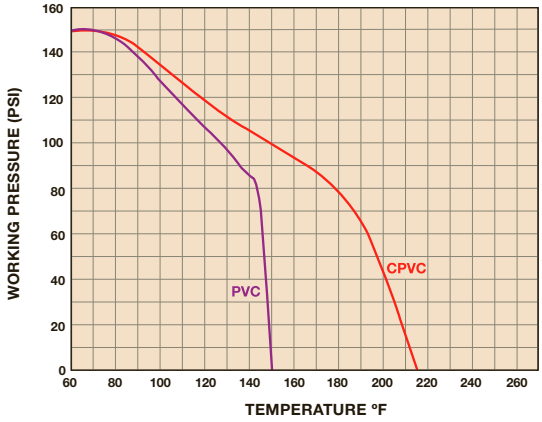
TECHNICAL INFORMATION, *CONTINUED*

PARTS LIST

1. Body
2. Cover
3. Vent Plug and O-Ring
4. Drain Plug and O-Ring
5. Basket
6. Flange (Optional)
7. Cover O-Ring



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 SOC/THD	WEIGHT lbs/kg FLANGED	VOLUME gal/LT
6/150	N/A	36.07/871	18.00/457	12.46/316	28.99/736	13.50/298	21.80/554	22.42/569	39.90/1013	N/A	60.00/27.21	6.80/25.74
8/200	N/A	36.07/871	18.00/457	12.46/316	28.99/736	13.50/298	28.75/730	25.44/640	39.90/1013	N/A	80.00/36.28	9.00/34.07

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

PRESSURE DROP CALCULATIONS

BASKET PERFORATION CORRECTION FACTORS

For 6″ to 8″ Strainers

Plastic		Stainless Steel			
1/8″	2.00	1/32″	2.25	20 Mesh	2.16
3/16″	1.50	1/16″	2.03	40 Mesh	2.79
		1/8″	1.58	60 Mesh	3.28
		5/32″	1.00	80 Mesh	3.18
		3/16″	1.26	100 Mesh	3.30
		1/4″	1.58	200 Mesh	2.98
		3/8″	1.24	325 Mesh	3.33

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 VALUES

SIZE in/DN	Cv VALUES
6/150	1,000
8/200	750

The above Cv Values were determined using a 5/32″ perforated plastic basket in 6″ and 8″ strainers.

To calculate pressure drop through vessels using other than 5/32″ 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.