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1/2" TO 4" PVC, CPVC, GFPP BLACK, GFPP PLATINUM AND EASTAR®

KEY FEATURES

- PVC, CPVC, GFPP and Eastar®
- True Union
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVC or CPVC Baskets Standard
- NSF/ANSI 61 Listed

OPTIONS

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

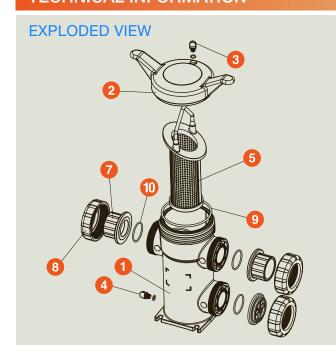
MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- GFPP Cell Class 85580 per ASTM D4101
- Eastar®
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

NSF

PVC and **CPVC**



SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING	
1/2" – 4" (DN15 – DN100)	PVC or CPVC	Socket, Threaded		150 PSI @ 70°F Non-Shock	
	Eastar®*	or Flanged	FPM or EPDM	100 PSI @ 70°F Non-Shock	
	GFPP	Threaded or Flanged		150 PSI @ 70°F Non-Shock	

^{*} End connections and assembly nuts are PVC

SB Series Simplex Basket Strainers

1/2" TO 4" PVC, CPVC, GFPP AND EASTAR®

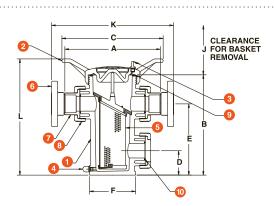


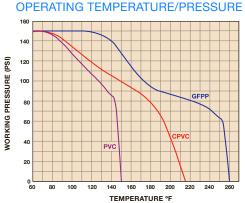
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TECHNICAL INFORMATION, CONTINUED

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 0-Ring
- 10. End Connector O-Ring





DIMENSIONS								WEIGHT lbs/kg				
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	SOC/THD	FLANGED	VOLUME gal/LT
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
2-1/2/65	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

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

PRESSURE DROP CALCULATIONS

BASKET PERFORATION CORRECTION FACTORS

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

PRESSURE LOSS CALCULATION FORMULA

Cv VALUES

SIZE in/DN	Cv VALUES	SIZE in/DN	Cv VALUES
1/2/15	15	2/50	60
3/4/20	18	2-1/2/65	290
1/25	20	3/80	300
1-1/4/32	55	4/100	350
1-1/2/40	58		

The above Cv Values 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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Monel is a registered trademark of Special Metals Corporation.





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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 SELECTION CHART PERFORATION SIZE **MATERIAL SEALS** CONNECTION **MATERIAL RATING** 1/32" 20 FPM or EPDM 150 PSI @ 70°F 6"-8" PVC or CPVC Flanged (DN150 - DN200) Non-Shock 1/16" 40 1/8" 60 SSTL, Hastelloy, 5/32" 80 Monel and Titanium 3/16" 100 1/4" 200 3/8" 325 1/8" N/A 3/16" PVC, CPVC and PP

SB Series Simplex Basket Strainers

6" TO 8" PVC AND CPVC

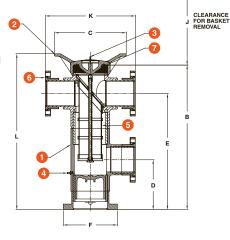


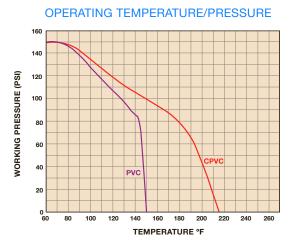
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TECHNICAL INFORMATION, CONTINUED

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





DIMENSIONS							WEI lbs					
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	SOC/THD	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								
Plas	stic	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:

 $\Delta P = \left[\frac{Q}{Cv}\right]^2$ $\Delta P = \text{Pressure Drop}$ 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 $5/32^{\circ}$ perforated plastic basket in 6° and 8° strainers.

To calculate pressure drop through vessels using other than $5/32^{\prime\prime}$ 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.



