

## DB Series Duplex Basket Strainers

1/2" TO 4" PVC, CPVC AND EASTAR®

### KEY FEATURES

- PVC, CPVC and Eastar®
- Ergonomic Hand-Removable Cover
- Uninterrupted Flow
- No System Shutdown for Basket Cleaning
- In-Line or Loop Piping
- Integral Flat Mounting Bases
- External Cover Threads
- Hand Removable Vents on Covers
- Hand Removable Drains on Bodies
- Liquid Displacing Covers

### OPTIONS

- Stainless Steel, Monel®, Hastelloy® and Titanium Strainer Baskets
- Pressure Differential Gauge and Switch
- Pneumatic or Electric Valve Automation
- 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

### 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	
1/32"		
1/16"	N/A	
1/8"		
3/16"		

### SELECTION CHART

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

\* End connections and assembly nuts are PVC

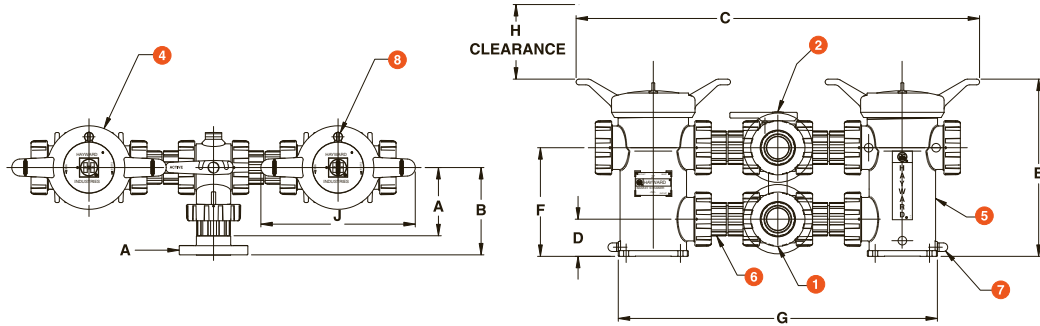
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## TECHNICAL INFORMATION, CONTINUED

### PARTS LIST

1. Single Stem Lateral
2. Double Stem Lateral
3. Inlet Flange
4. Cover
5. Strainer Body
6. Spool
7. Drain Plug and O-Ring
8. Vent Plug and O-Ring



### DIMENSIONS

SIZE in/DN	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm	G in/mm	H in/mm	J in/mm	WEIGHT lbs/kg	
										SOC/THD	FLANGED
1/2/15	4.14/105	5.21/132	27.20/691	2.25/57	11.70/297	6.75/171	20.50/521	5.00/127	11.00/279	20.00/9.07	21.00/9.53
3/4/20	4.14/105	5.33/135	27.20/691	2.25/57	11.70/297	6.75/171	20.50/521	5.00/127	11.00/279	20.00/9.07	21.00/9.53
1/25	4.14/105	5.64/143	27.20/691	2.25/57	11.70/297	6.75/171	20.50/521	5.00/127	11.00/279	20.00/9.07	21.00/9.53
1-1/4/32	6.00/152	7.44/189	35.30/897	3.25/83	15.50/394	9.50/241	28.00/711	10.80/274	13.50/343	39.50/17.92	42.00/19.05
1-1/2/40	6.00/152	7.60/193	35.30/897	3.25/83	15.50/394	9.50/241	28.00/711	10.80/274	13.50/343	39.50/17.92	42.00/19.05
2/50	6.00/152	7.77/197	35.30/897	3.25/83	15.50/394	9.50/241	28.00/711	10.80/274	13.50/343	39.50/17.92	42.00/19.05
2-1/2/65	7.60/193	9.85/250	44.40/1128	4.83/123	22.30/566	14.83/377	35.60/904	14.80/376	16.00/406	83.00/37.65	88.00/39.92
3/80	7.60/193	9.85/250	44.40/1128	4.83/123	22.30/566	14.83/377	35.60/904	14.80/376	16.00/406	83.00/37.65	88.50/40.14
4/100	9.33/237	11.76/299	47.50/1207	4.83/123	22.30/566	14.83/377	38.70/983	14.80/376	16.00/406	100.00/45.36	105.00/47.63

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

Plastic				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

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

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

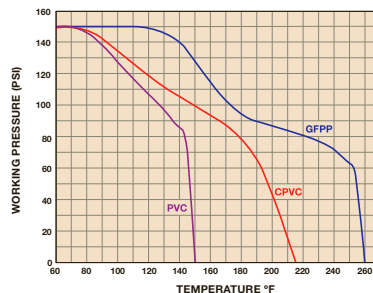
$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $Cv$  = Flow Coefficient

### Cv VALUES

SIZE in/DN	Cv VALUES	SIZE in/DN	Cv VALUES
1/2/15	12.5	1-1/2/40	45
3/4/20	13	2/50	48
1/25	14	3/80	200
1-1/4/32	40	4/100	280

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

### OPERATING TEMPERATURE/PRESSURE



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