



## DB Series Duplex Basket Strainers

1/2" TO 4" PVC, CPVC AND EASTAR®

### KEY FEATURES

- Available in 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
- Eastar®
- FPM and EPDM O-Ring Seals

## TECHNICAL INFORMATION

### BASKET OPTIONS

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

### SELECTION CHART

SIZE**	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2" – 4" (DN15 – DN100)	PVC or CPVC Eastar*	Socket, Threaded or Flanged	FPM or EPDM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock  100 PSI @ 70°F 7 Bar @ 21°C Non-Shock

\*End connections and assembly nuts are PVC.

\*\* PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21.

\*\*\* Flanged ends available in DIN / EN PN10.

# DB Series

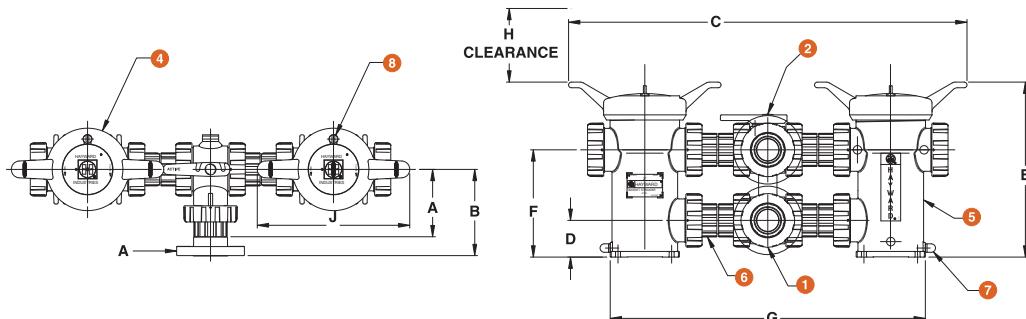
## Duplex Basket Strainers

1/2" TO 4" PVC, CPVC AND EASTAR®

### 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	SOC / THD	WEIGHT lbs / kg	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
1/16"	1.00
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

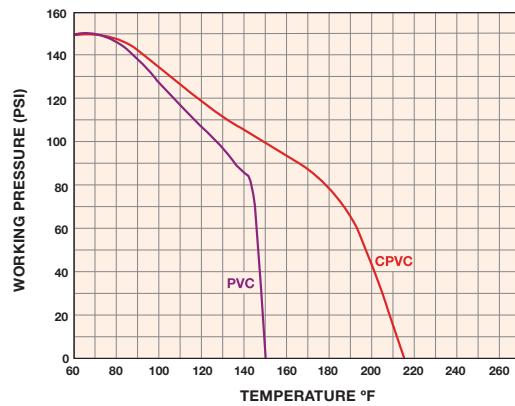
##### PRESSURE LOSS CALCULATION FORMULA

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

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

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

#### OPERATING TEMPERATURE/PRESSURE



#### 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 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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## Liquid Filters and Strainers



### Bag Filter vessel

- GFPP
- PVC
- CPVC



### Simplex Strainers

- PVC
- CPVC
- GFPP
- PVDF
- Eastar® (Clear)



### Y Strainers

- PVC
- CPVC
- Clear PVC
- PVDF



### Duplex Strainers

- PVC
- CPVC
- GFPP
- Eastar® (Clear)

## Valves and Flow Control



### Ball Valves

- PVC
- CPVC
- GFPP
- PVDF



### Butterfly Valves

- PVC
- CPVC
- GFPP
- PP
- PVDF



### Check Valves

- Ball Check Valves
- Y-Check Valves
- Wafer Check Valves
- Swing Check Valves



### Actuation

- Electric
- Pneumatic



### Pressure & Chemfeed

- Injection Quills
- Back Pressure
- Pressure Relief
- Diaphragm Valves
- Needle Valves
- Angle Globe Valves



### Solenoid Valves

- PVC
- CPVC
- PVDF



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