

# Simplex Basket Strainers

1/2" to 8" - PVC, Corzan® CPVC and Eastar®



## Features

- External Body Threads
- Low Pressure Drop
- Wide Choice of Baskets
- In-line or Loop Piping Design
- True Union Connections
- Ergonomic Hand Removable Cover
- Viton® Seals
- Integral, Flat Mounting Base
- Hand Removable Vent On Cover
- Hand Removable Drain On Body
- Liquid Displacing Cover

Corzan® is a registered trademark of Noveon, Inc.  
 Viton® is a trademark of DuPont Dow Elastomers  
 Eastar® is a registered trademark of Eastman

## Options

- Stainless Steel Mesh Strainer Baskets
- EPDM Seals

## Protect System Components

When pipeline system components require protection from dirt and debris and the line can be shut down for basket cleaning, a Hayward All Plastic Simplex Basket Strainer is the ideal choice. Unwanted particles are removed as the process media passes through a perforated strainer basket contained inside the strainer body. The basket traps the unwanted material while allowing the process media to flow freely.

## Easy Basket Cleaning

Changing or cleaning the strainer basket is quick and easy. The hand removable, spin-off cover features two angled handles for easy access to the strainer basket. The housing features external cover threads that do not contact the process media and never need cleaning. Venting and draining are made possible by two hand removable, threaded plugs, one on the top of the cover and the other on the housing side.

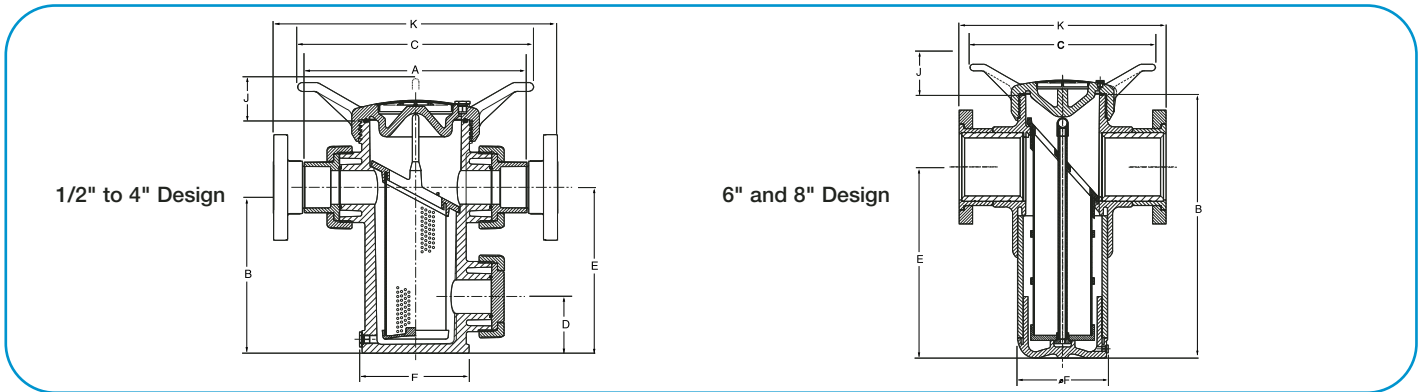
## Choice of Piping Connections

Hayward Simplex Basket Strainers can be installed either in-line or with loop piping configurations. This is made possible by a unique design that incorporates three piping connections on the strainer body that are used as inlets and outlets. The unused connection is plugged using a blind fitting (included). True union connections make it possible to remove the strainer from the piping system without disassembling the piping connections.

## Wide Range of Strainer Baskets

Plastic baskets in perforation sizes from 1/32" to 3/16" are available. Stainless steel perforated baskets are available from 1/2" to 1/32". Mesh stainless steel baskets for very fine straining applications are available in sizes from 20 mesh down to 325 mesh.

# Technical Information



## Dimensions - Inches / Millimeters

Size	a	b	c	d	e	f	j	k	WEIGHT		VOLUME
									Skt/Thd	Flange	GAL / LT
1/2"	8.64 / 219	9.63 / 245	11.0 / 279	2.25 / 57	6.75 / 171	4.31 / 109	8.00 / 203	10.77 / 274	8.0 / 3.4	9.0 / 4	0.20 / 0.8
3/4"	8.64 / 219	9.63 / 245	11.0 / 279	2.25 / 57	6.75 / 171	4.31 / 109	8.00 / 203	11.02 / 280	8.0 / 3.4	9.0 / 4	0.20 / 0.8
1"	8.64 / 219	9.63 / 245	11.0 / 279	2.25 / 57	6.75 / 171	4.31 / 109	8.00 / 203	11.64 / 296	8.0 / 3.4	9.0 / 4	0.20 / 0.8
1-1/4"	12.75 / 324	13.38 / 340	13.5 / 343	3.25 / 83	9.5 / 241	6.13 / 156	12.86 / 327	15.63 / 397	14.0 / 6.4	16.5 / 7.5	0.70 / 2.7
1-1/2"	12.69 / 322	13.38 / 340	13.5 / 343	3.25 / 83	9.5 / 241	6.13 / 156	12.86 / 327	15.89 / 404	14.0 / 6.4	16.5 / 7.5	0.70 / 2.7
2"	12.75 / 324	13.38 / 340	13.5 / 343	3.25 / 83	9.5 / 241	6.13 / 156	12.86 / 327	16.29 / 414	14.0 / 6.4	16.5 / 7.5	0.70 / 2.7
2-1/2"	16.52 / 384	19.83 / 504	16.0 / 406	4.83 / 123	14.83 / 377	7.25 / 184	17.25 / 438	21.02 / 534	28.0 / 13	33.0 / 15	2.80 / 10.6
3"	16.40 / 384	19.83 / 504	16.0 / 406	4.83 / 123	14.83 / 377	7.25 / 184	17.25 / 438	20.36 / 517	28.0 / 13	33.5 / 15	2.80 / 10.6
4"	17.27 / 384	19.83 / 504	16.0 / 406	4.83 / 123	14.83 / 377	7.25 / 184	17.25 / 438	22.13 / 562	28.0 / 13	37.0 / 17	2.80 / 10.6
6"	n/a	25.8 / 655	18.0 / 457	n/a	18.5 / 470	8.63 / 219	21.80 / 554	20.0 / 508	n/a	50.0 / 23	6.10 / 23
8"	n/a	32.3 / 820	18.0 / 457	n/a	25.25 / 641	8.63 / 219	28.75 / 730	22.68 / 576	n/a	70.0 / 32	8.60 / 32.5

## Cv Factors

Size	Factor	Size	Factor
1/2"	15	2-1/2"	290
3/4"	18	3"	300
1"	20	4"	350
1-1/4"	55	6"	1000
1-1/2"	58	8"	750
2"	60		

## Pressure Drop Calculations

### Basket Perforation Correction Factors

#### For 1/2" to 4" Strainers

Plastic Baskets	Stainless Steel Baskets
1/32" 1.05	1/32" .82
1/16" 1.00	3/64" .63
1/8" .58	1/16" .74
3/16" .46	5/64" .50
	7/64" .51
	1/8" .58
	5/32" .37
	3/16" .46
	1/4" .58
	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

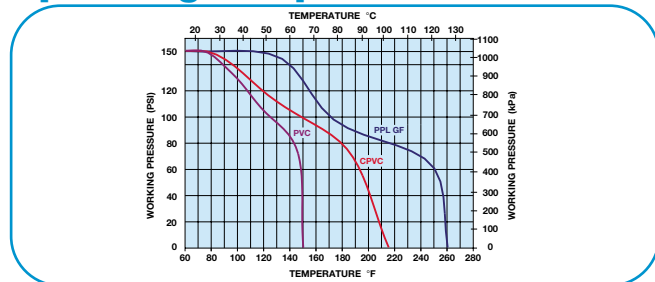
#### For 6" to 8" Strainers

Plastic Baskets	Stainless Steel Baskets
1/8" 2.00	1/32" 2.25
3/16" 1.50	3/64" 1.73
	1/16" 2.03
	5/64" 1.37
	7/64" 1.40
	1/8" 1.58
	5/32" 1.00
	3/16" 1.26
	1/4" 1.58
	3/8" 1.24
	1/2" 1.31
	20 Mesh 2.16
	40 Mesh 2.79
	60 Mesh 3.28
	80 Mesh 3.18
	100 Mesh 3.30
	200 Mesh 2.98
	325 Mesh 3.33

The above Cv Factors were determined using a 1/16" perforated plastic basket in 1/2" through 4" strainers and a 5/32" perforated stainless steel basket in 6" and 8" strainers. For other size basket perforations, multiply by the correction factor in the above Correction Factor charts.

The pressure drop across the strainer, for water or fluids with a similar viscosity, can be calculated using the formula at the right:  $\Delta P = \left[ \frac{Q}{Cv} \right]^2$  Where  $\Delta P$  = Pressure Drop, Q = Flow in GPM, Cv = Flow Coefficient

## Operating Temperature/Pressure



## Selection Chart

Size	Material	End Connection	Seal*	Rating
1/2" to 4"	PVC, CPVC	Thd, Skt, Flg	Viton®	150 PSI @ 70F
1" to 4"	EASTAR®++	Thd, Flg	Viton®	
6" to 8"	PVC, CPVC	Flg	Viton®	

\*EPDM seals POA. \*\* 3" & 4" rated at at 100 PSI@70F

## Basket Selection

- The 1/2" to 1" strainers can be ordered with either a 1/32" or 1/16" perf plastic basket.
- The 1-1/2" and 2" with a 1/32", 1/16", 1/8", or 3/16" perf plastic basket.
- The 3" and 4" with a 1/16", 1/8" or 3/16" perf plastic basket.
- The 6" and 8" with a 1/8" or 3/16" perf plastic basket.
- Stainless steel baskets for all size strainers are available in these perms: 1/32", 3/64", 1/16", 5/64", 7/64", 1/8", 5/32", 3/16", 1/4", 3/8", 1/2"; and in mesh sizes: 20, 40, 60, 80, 100, 200, 325



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