

Simplex Basket Strainers 1/2" to 8" – PVC

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Features

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



1/2" to 8" – PVC, Corzan CPVC and Easter Clear Polyester

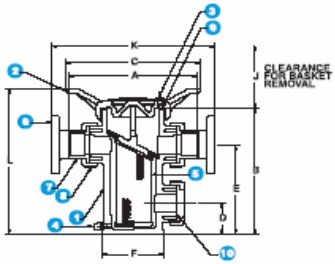
Wide Range of Strainer Baskets: Plastic Baskets in perforation sizes from 1/32" to 3/16" are available. Stainless steel perforated baskets are available from 1/2" to 1/32". Mesh stainless steel baskets for very fine straining applications are available in sizes from 20 mesh down to 325 mesh.

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.

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Technical Information



Parts List
Simplex Basket Strainer

1. Body
2. Cover
3. Vent Plug
4. Drain Plug
5. Basket
6. Flange
7. End Connector
8. Nut
9. Cover O-Ring
10. End Connector O-Ring

Dimensions - Inches / Millimeters										WEIGHT (lb/kg)		VOLUME
Size	A	B	C	D	E	F	J	K	L	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	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	10.77 / 274	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	10.77 / 274	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	10.77 / 274	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	10.77 / 274	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	10.77 / 274	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	10.77 / 274	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	10.77 / 274	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	10.77 / 274	28.0 / 13	37.0 / 17	2.80 / 10.6
6"	n/a	34.28 / 871	18.0 / 457	10.66 / 271	27.19 / 691	11.75 / 298	21.80 / 554	22.42 / 569	10.77 / 274	n/a	60.0 / 27	6.8 / 25.7
8"	n/a	34.28 / 871	18.0 / 457	10.66 / 271	27.19 / 691	11.75 / 298	28.75 / 730	25.19 / 640	10.77 / 274	n/a	80.0 / 36	9.0 / 34.1

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		

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.

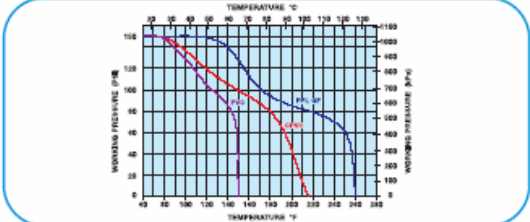
Pressure Drop Calculations

Basket Perforation Correction Factors

For 1/2" to 4" Strainers				For 6" to 8" Strainers			
Plastic Baskets		Stainless Steel Baskets		Plastic Baskets		Stainless Steel Baskets	
1/32"	1.05	1/32"	.62	1/8"	2.00	1/32"	2.25
1/16"	1.00	3/64"	.63	3/8"	.45	1/2"	1.31
1/8"	.58	1/16"	.74	1/2"	.48	1/16"	2.03
3/16"	.46	5/64"	.50	20 Mesh	.79	20 Mesh	2.16
		7/64"	.51	40 Mesh	1.01	40 Mesh	2.79
		1/8"	.58	60 Mesh	1.20	60 Mesh	3.28
		5/32"	.37	80 Mesh	1.16	80 Mesh	3.18
		3/16"	.46	100 Mesh	1.20	5/32"	1.00
		1/4"	.50	200 Mesh	1.09	100 Mesh	3.30
				325 Mesh	1.22	3/16"	1.26
						1/4"	1.50
						325 Mesh	3.03

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 ΔP = 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	FPM	150 PSI @ 70°F
1/2" to 2"	EASTAR®	Thd, Skt, Flg	FPM	100 PSI @ 70°F
6" to 8"	PVC, CPVC	Flg	FPM	150 PSI @ 70°F

*EPDM seals POA.

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