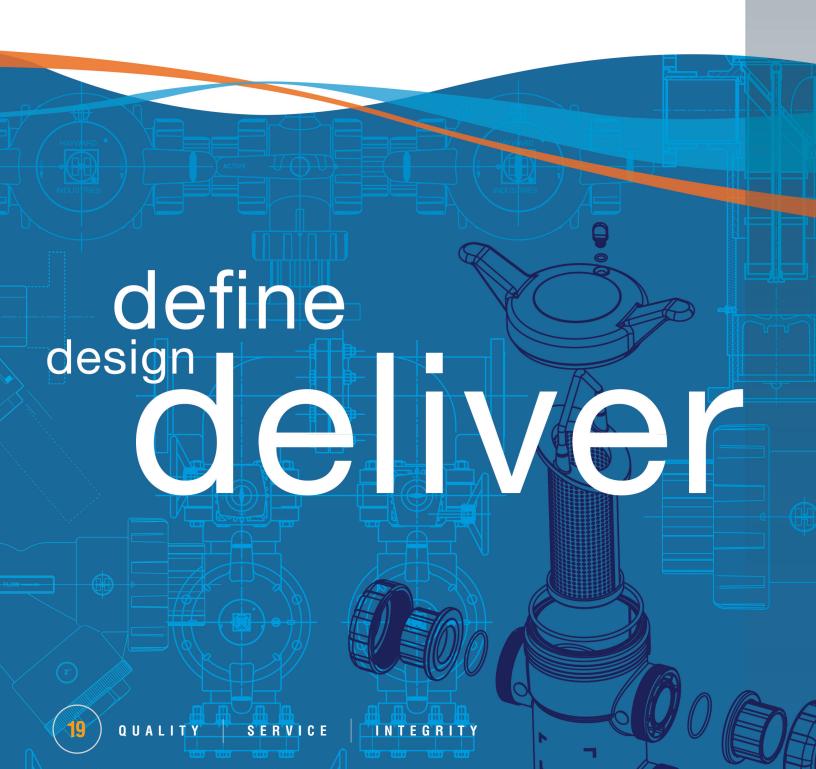


Thermoplastic Strainer Product Guide



Why Thermoplastic Strainers?

For more than 60 years, Hayward Flow Control's leading thermoplastic fluid handling products and solutions have proven to excel in the harshest environments. Thousands of customers worldwide have installed our products into aggressive and corrosive systems, as well as delicate life support systems where the strictest chemical balance is required. We understand the rigorous demands of industrial piping and are committed to offering advantageous products for your application that will keep your systems working.

Hayward's industry leading Basket and Y-Strainers are designed to protect pipeline system components from dirt and debris while allowing process media to flow freely. Simplex and duplex Basket Strainers are manufactured in PVC, CPVC, GFPP and clear Eastar®, and are available with thermoplastic, stainless steel or specialty alloy baskets in a variety of perfs and meshes. Y-Strainers are offered in PVC, clear PVC, CPVC and PVDF materials with FPM or EPDM o-ring seals and a range of perforated thermoplastic or metal screens.

Pipeline Strainers are the unsung heroes in a piping system. Their role in a piping system is simply protecting your investment by removing any potentially harmful solids from the process fluid that can damage inline sensors, pump impellers, valves, and other expensive equipment. Haward Flow Control Thermoplastic Strainers come in three families of products:

Y-strainers function in a variety of liquid straining applications to protect downstream process system components from damage or clogging by sand, gravel, or other debris. Y-strainers remove unwanted solids from piping systems by means of a perforated or mesh screen. Y-strainers are cost effective when removing a small amount of material resulting in long intervals between screen cleanings. To clean the strainer screen, shut down the line and remove the strainer cap. For applications with heavier dirt loading, Y-strainers fitted with a "blow off" connection permits cleaning of the screen without removing it from the strainer body. Hayward Y-Strainers are offered in both "molded-in" and True-Union designs.

Simplex basket strainers are used when liquids require regular or frequent cleaning, and when the line can be shut down for short periods to clean or change the basket. Basket strainers hold substantially more material than Y strainers and offer a lower pressure drop. Installed upright, in a horizontal line, the basket strainer lifts out from the top. This makes it easier to use with high loads, high viscosity fluids, or with large pipeline sizes where the filled basket weight can be considerable. They are indispensable for prefiltration systems.

Duplex basket strainers operate continuously so the pipeline flow never has to be shut down for strainer basket cleaning. When one basket is full, the flow shifts to the other one, making it easy to remove, clean, and replace the first basket. Duplex or "double basket" strainers are valuable in locations in which it is impossible to shut off flow to stop the operation. Examples of these processes include cleaning water intake for Water Treatment plants, prefiltration for membrane systems, screening water in cooling towers, and straining fluids in continuously running chemical operations.

KEY APPLICATIONS FOR HAYWARD THERMOPLASTIC STRAINERS INCLUDE AND NOT LIMITED TO:

Water Treatment Pump Seal Protection
Chilled Water Plating & Surface Finishing

Chemical Processing Sea Water

Scrubbers Plant Intake Water

Semicon Well Water
Parts Washing Pre-Filtration
Mining Remediation
Food Processing Marine

Hayward Flow Control products carry an industry-leading, full three-year warranty. As an ISO 9001:2015 certified company, we strive for the highest quality product possible for use in a wide range of demanding applications.









*ABS applies to CPVC Items Only







YS Series Y-Strainers

1/2" - 2" PVC, CLEAR PVC AND CPVC 2-1/2" - 4" PVC AND CPVC

KEY FEATURES

- Available in PVC, CPVC and Clear PVC Materials
- Horizontal or Vertical Installation
- FPM O-Ring Seals
- 2:1 Open Area Ratio
- Hex Cap for Easy Access to Screen
- Standard Screen has 1/32" Perforation

OPTIONS

 Stainless Steel Perforated or Mesh Strainer Screens Available in Various Sizes and Alloy Materials

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- Clear PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW

| SIZE | MATERIAL | END CONNECTION | SEALS | PRESSURE RATING |
|----------------------------------|---------------------------|-----------------------------|-----------------|--|
| 1/2" – 1" (DN15 – DN25) | PVC, CPVC or Clear PVC | | | |
| 1-1/4" (DN32) | PVC and Clear PVC | Socket or Threaded | | |
| 1–1/2" (DN40) 2" (DN50) | PVC, CPVC or Clear PVC | | FPM and EPDM | 150 PSI @ 70°F 10 Bar @ 21°C Non-Shock |
| 2–1/2" (DN65) | PVC | Socket, Threaded or Flanged | | |
| 3–4" (DN80-DN100) | PVC and CPVC | | | |

^{*} PVC and CPVC available with threaded ends to BS21.

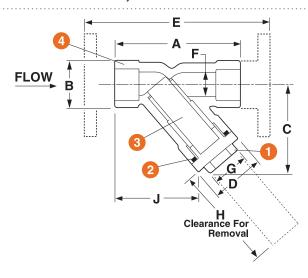
YS Series Y-Strainers

1/2" - 2" PVC, CLEAR PVC AND CPVC 2-1/2" - 4" PVC AND CPVC

TECHNICAL INFORMATION, CONTINUED

PARTS LIST

- 1. Cap
- 2. O-Ring Seal
- 3. Screen
- 4. Body



| SCREEN OPTIO | SCREEN OPTIONS | | | | | | | | |
|-------------------|----------------|--|--|--|--|--|--|--|--|
| PERFORATION SIZES | MESH SIZES | SCREEN 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" | | | | | | | | | |
| 1/32" | | | | | | | | | |
| 1/16" | N/A | DVC CDVC | | | | | | | |
| 1/8" | IV/A | PVC, CPVC | | | | | | | |
| 3/16" | | | | | | | | | |

| DIMENSIONS | | | | | | | | | | WEIG lbs / | |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|------------|
| 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 | FLANGED |
| 1/2 / 15 | 3.38/86 | 1.38/35 | 2.25/57 | 1.50/38 | N/A | .56/14 | 1.00/25 | 2.13/54 | 2.50/64 | .25/.11 | N/A |
| 3/4 / 20 | 4.18/106 | 1.69/43 | 2.88/73 | 2.00/51 | N/A | .81 / 21 | 1.25 / 32 | 2.75/70 | 3.00/76 | .63/.29 | N/A |
| 1 / 25 | 5.19/132 | 2.00/51 | 3.63/92 | 2.16/55 | N/A | 1.00/25 | 1.50/38 | 3.30/84 | 3.32/84 | .88/.40 | N/A |
| 1-1/4 / 32 | 6.63/168 | 2.63/67 | 4.50/114 | 2.94/75 | N/A | 1.25/32 | 2.00/51 | 4.50/114 | 4.45/113 | 1.75/.79 | N/A |
| 1-1/2 / 40 | 6.63/168 | 2.63/67 | 4.50/114 | 2.94/75 | N/A | 1.56/40 | 2.00/51 | 4.50/114 | 4.45/113 | 1.63/.74 | N/A |
| 2/50 | 7.63/194 | 3.38/86 | 5.38/137 | 3.75/95 | 11.00/279 | 2.00/51 | 2.38/60 | 5.06/129 | 4.88/124 | 3.00/1.36 | 5.00/2.27 |
| 2-1/2 / 65 | 10.31 / 262 | 4.69/119 | 7.25/184 | 5.25/133 | N/A | 2.90/74 | 3.50/89 | 6.60/168 | 6.54/166 | 7.75/3.52 | N/A |
| 3/80 | 10.31 / 262 | 4.69/119 | 7.25/184 | 5.50/140 | 14.37/365 | 2.90/74 | 3.50/89 | 6.60/168 | 6.54/166 | 7.50/3.40 | 12.25/5.56 |
| 4 / 100 | 12.81 / 325 | 5.75 / 146 | 8.88 / 226 | 6.18 /157 | 17.73 / 450 | 3.78 / 96 | 4.25 / 108 | 8.00 / 203 | 8.58 / 218 | 9.50/4.30 | 17.50/7.94 |

 $\label{lem:decomposition} \mbox{Dimensions are subject to change without notice} - \mbox{consult factory for installation information}$

Cv VALUES*

OPERATING TEMPERATURE/PRESSURE

| SIZE in / DN | Cv VALUES | SIZE in / DN | Cv VALUES | PRESSURE LOSS CALCULATION FORMULA | | 25 | 35 4 | 15 55 | | MPERA 75 | TURE 85 | (°C) 95 | 105 | 115 | 125 | 1100 |
|--------------------|--|-----------------|-----------|--|-------------------|----|------|-------|------------|--------------|------------|-------------|-----|-----|-----|--|
| 1/2 / 15 | 4.0 | 2 / 50 | 28 | $\Delta P = \left[\frac{Q}{Cv}\right]^2$ | 140 | | | | | | | | | | | 1000 900 |
| 3/4 / 20 | 6.8 | 2-1/2 / 65 | 40 | $\Delta P = \text{Pressure Drop}$ | 120 (IS 100 | | | | | | | | | | | 900 9 |
| 1 / 25 | 9.0 | 3 / 80 | 65 | Q = Flow in GPM | | | | | | | | | | | | |
| 1-1/4 / 32 | 12 | 4 / 100 | 100 | Cv = Flow Coefficient | PRESSURE 08 08 | | | | Λ | | | | | | | 600 BANGS 500 BA |
| 1-1/2 / 40 | 28 | | | | 40 | | | | | | | CPI | /C | | | 400 □ 300 |
| * With 1 / 32" pla | istic screen | | | | 20 | | | PVC a | | | | | | | | 200 |
| of Hay | ard is a registered trademan ward Industries, Inc. 19 Hayward Industries, Inc. | | | | 0 60 | 80 | 100 | 120 | 140 TEN | 160 IPERA | 180 | 200 (°F) | 220 | 240 | 260 | 0 |





YS Series Y-Strainers

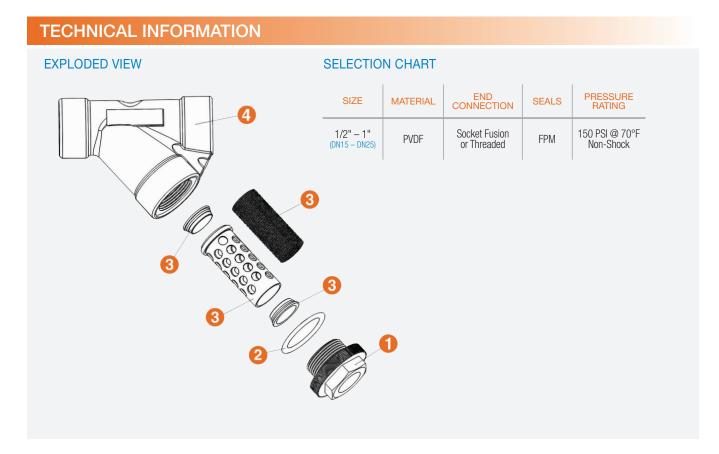
1/2", 3/4" AND 1" PVDF

KEY FEATURES

- PVDF 1-pc Molded Body
- NPT or BSP Threaded Ends
- Socket Fusion Ends for IPS Schedule 40 / 80, or for SDR21 / 33 Piping
- Horizontal or Vertical Installation
- FPM O-Ring Seals
- Hex Cap for Easy Access to Screen
- Standard Screen has 3/32" Perforation

MATERIALS

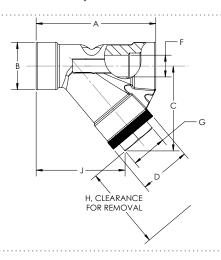
- Natural PVDF per ASTM D3222 Type 1
- FPM O-Ring Seals



TECHNICAL INFORMATION, CONTINUED

PARTS LIST

- 1. Cap
- 2. O-Ring Seal
- 3. Cartridge
- 4. Body



SCREEN OPTIONS

| PERFORATION SIZES | BASKET MATERIAL | | | |
|----------------------|--------------------|--|--|--|
| 1/16″ | PTFF / PVDF | | | |
| 3/32" | PTFE / PVDF | | | |

DIMENSIONS

| DIMENSIONS | | | | | | | | | |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| SIZE in / DN | A in / mm | B in / mm | C in / mm | D in / mm | F in / mm | G in / mm | H in / mm | J in / mm | SOC / THD |
| 1/2 / 15 | 3.30/84 | 1.50/38 | 2.30/58 | 1.40/36 | 0.50/13 | 1.00/25 | 2.20/56 | 2.80/71 | 0.33/0.15 |
| 3/4 / 20 | 4.1/104 | 1.90/48 | 3.00/76 | 1.90/49 | 0.75/19 | 1.25/32 | 2.70/69 | 3.20/81 | 0.82 / 0.37 |
| 1/25 | 5.0/127 | 2.00/51 | 3.60/91 | 2.10/53 | 1.00/25 | 1.50/38 | 3.50/89 | 3.90/99 | 1.14/0.52 |

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

Cv VALUES*

| SIZE in / DN | Cv VALUES |
|-----------------|-----------|
| 1/2 / 15 | 4.0 |
| 3/4 / 20 | 6.8 |
| 1 / 25 | 9.0 |

* With standard 3/32" perforation.

PRESSURE LOSS **CALCULATION FORMULA**

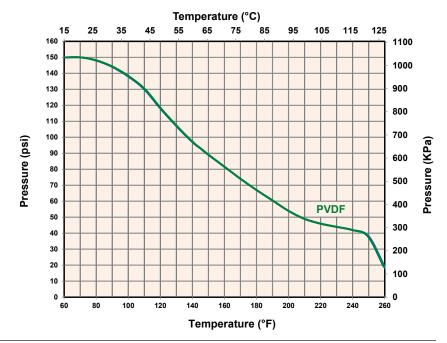
$$\Delta P = \left[\frac{Q}{Cv}\right]^2$$

 $\Delta P = Pressure Drop$

Q = Flow in GPM

Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE





Hayward is a registered trademark of Hayward Industries, Inc.
© 2019 Hayward Industries, Inc.





YS Series True Union Y-Strainers

1/2" - 2" PVC, CLEAR PVC AND CPVC 2-1/2" - 4" PVC AND CPVC

KEY FEATURES

- True Union Connection for Ease of Installation
- Available in PVC. CPVC and Clear PVC Materials
- Horizontal or Vertical Installation
- FPM O-Ring Seals
- 2:1 Open Area Ratio
- Hex Cap for Easy Access to Screen
- Standard Screen has 1/32" Perforation

OPTIONS

• Stainless Steel Perforated or Mesh Strainer Screens Available in Various Sizes and Alloys

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- Clear PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW

| | SIZE | MATERIAL | END CONNECTION | SEALS | PRESSURE RATING | | |
|---|----------------------------------|---------------------------|--------------------------------|-----------------|--|--|--|
| | 1/2" - 1" (DN15 - DN25) | PVC, CPVC or Clear PVC | | | | | |
| Ī | 1-1/4" (DN32) | PVC and Clear PVC | | | 150 PSI @ 70°F 10 Bar @ 21°C Non-Shock | | |
| • | 1-1/2" (DN40) 2" (DN50) | PVC, CPVC or Clear PVC | Socket, Threaded or Flanged | FPM and EPDM | | | |
| • | 2-1/2" (DN65) | PVC | | | | | |
| • | 3-4" (DN80-DN100) | PVC and CPVC | | | | | |
| | + 01/0 1 001/0 | | | | | | |

^{*} PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. Flanged ends available in DIN / EN PN10.

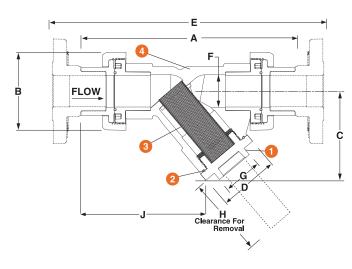
YS Series True Union Y-Strainers

1/2" - 2" PVC, CLEAR PVC AND CPVC 2-1/2" - 4" PVC AND CPVC

TECHNICAL INFORMATION, CONTINUED

PARTS LIST

- 1. Cap
- 2. O-Ring Seal
- 3. Screen
- 4. Body
- 5. Union Nuts
- 6. End Connectors



| SCREEN OPTIONS | | | | | | | | |
|-------------------|---------------|--|--|--|--|--|--|--|
| PERFORATION SIZES | MESH SIZES | SCREEN 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 | | | | | | | |
| 1/32" | | | | | | | | |
| 1/16" | N/A | DVC CDVC | | | | | | |
| 1/8" | N/A | PVC, CPVC | | | | | | |
| 3/16" | | | | | | | | |

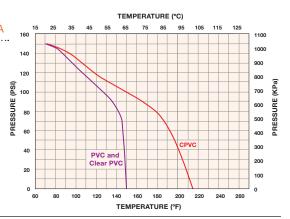
| DIMENSIONS | | | | | | | | | | WEIGHT lbs / kg | |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|-----------|
| SIZE in / DN | A in / mm | B in / mm | C in / mm | D in / mm | E in / mm | F in / mm | G in / mm | H in / mm | J in / mm | SOC/ THD | FLANGED |
| 1/2 / 15 | 6.64/167 | 2.25/57 | 2.25/57 | 1.50/38 | N/A | .56/14 | 1.00/25 | 2.13/54 | 4.13/105 | .61 / .28 | N/A |
| 3/4 / 20 | 7.42/188 | 2.63/67 | 2.88/73 | 2.00/51 | N/A | .81 / 21 | 1.25/32 | 2.75/70 | 4.62/118 | 1.17/.53 | N/A |
| 1 / 25 | 8.97/228 | 3.00/76 | 3.63/92 | 2.16/55 | 11.65/296 | 1.00/25 | 1.50/38 | 3.30/84 | 5.21 / 133 | 1.6/.73 | 2.3/1.1 |
| 1-1/4 / 32 | 13.01/330 | 4.75/121 | 4.50/114 | 2.94/75 | N/A | 1.25/32 | 2.00/51 | 4.50/114 | 7.64/195 | 4.5/2.0 | N/A |
| 1-1/2 / 40 | 12.07/307 | 4.75/121 | 4.50/114 | 2.94/75 | 15.25/387 | 1.56/40 | 2.00/51 | 4.50/114 | 7.17/183 | 3.7/1.7 | 4.5 / 2.1 |
| 2 / 50 | 13.05/331 | 4.75/121 | 5.38/137 | 3.75/95 | 16.56 / 421 | 2.00/51 | 2.38/60 | 5.06/129 | 7.59/193 | 5.3/2.4 | 7.5/3.4 |
| 2-1/2 / 65 | 16.77 / 426 | 6.40/163 | 7.25/184 | 5.25/133 | N/A | 2.90/74 | 3.50/89 | 6.60/168 | 9.77/249 | 13.1/5.9 | N/A |
| 3 / 80 | 16.77 / 426 | 6.40/163 | 7.25/184 | 5.50/140 | 21.25 / 540 | 2.90/74 | 3.50/89 | 6.60/168 | 9.77/249 | 13.2/6.0 | 16.4/7.4 |
| 4 / 100 | 21.23/539 | 8.56 / 217 | 8.88 / 226 | 6.18 / 157 | 26.18 / 665 | 3.78 / 96 | 4.25 / 108 | 8.00 / 203 | 12.79 / 325 | 17.7/8.0 | 23.3/10.6 |

 $\label{lem:decomposition} \mbox{Dimensions are subject to change without notice-consult factory for installation information}$

Cv VALUES*

| PRESSURE LOSS CALCULATION FORMULA | Cv VALUES | SIZE in/DN | Cv VALUES | SIZE in/DN |
|--|-----------|---------------|-----------|---------------|
| $\Delta P = \left[\frac{Q}{Cv}\right]^2$ | 28 | 2 / 50 | 4.0 | 1/2 / 15 |
| $\Delta P = \text{Pressure Drop}$ | 40 | 2-1/2 / 65 | 6.8 | 3/4 / 20 |
| Q = Flow in GPM | 65 | 3 / 80 | 9.0 | 1 / 25 |
| Cv = Flow Coefficient | 100 | 4 / 100 | 12 | 1-1/4 / 32 |
| | | | 28 | 1-1/2 / 40 |

OPERATING TEMPERATURE/PRESSURE



^{*} With 1/32" plastic screen



HAYWARD®



SB Series Simplex Basket Strainers

1/2" TO 4" PVC AND CPVC

KEY FEATURES

- Available in PVC and CPVC Materials
- True Union Design
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVC or CPVC Baskets Standard
- NSF / ANSI 61 and NSF / ANSI 372 Listed

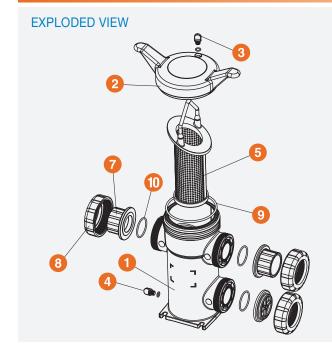
OPTIONS

- Drain Kit with Lockout Ball Valve
- Baskets Available with Perforated or Mesh Liners
- Stainless Steel, Monel®, Hastelloy® and Titanium Strainer Baskets
- Pressure Differential Gauge and Switch

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION



| SIZE* | MATERIAL | MATERIAL CONNECTION | | PRESSURE RATING | | |
|-----------------------------|-------------|-----------------------------|----------------|--|--|--|
| 1/2" - 4" (DN15 - DN100) | PVC or CPVC | Socket, Threaded or Flanged | FPM or EPDM | 150 PSI @ 70°F 10 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.
- *** See Page 21 for Available Perf or Mesh

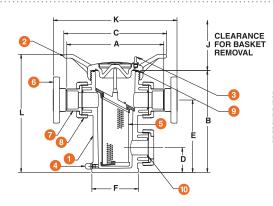
SB Series Simplex Basket Strainers

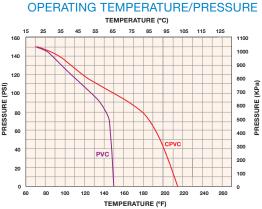
1/2" TO 4" PVC AND CPVC

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





Consult factory for Eastar Temperature & Pressure ratings

| 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 | · · | 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 | | | | | | | |
| | | | | | | | | | | |

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.



Hastelloy is a registered trademark of Haynes International Inc.
 Monel is a registered trademark of Special Metals Corporation.

HAYWARD



SB Series Simplex Basket Strainers

1/2" TO 4" EASTAR®

KEY FEATURES

- Available in Clear Eastar® Material
- True Union Design
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVC Basket Standard

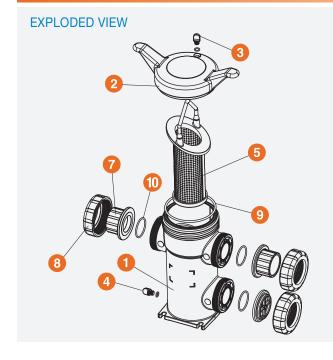
OPTIONS

- Drain Kit with Lockout Ball Valve
- Baskets Available with Perforated or Mesh Liners
- Stainless Steel, Monel®, Hastelloy® and Titanium Strainer Baskets
- Pressure Differential Gauge and Switch

MATERIALS

- Eastar® Polyester
- PVC Cell Class 12454 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION



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

- End connections and assembly nuts are PVC.
- ** PVC socket ends available to ISO 727-1 and threaded ends to BS21. Flanged ends available in DIN / EN PN10. *** See Page 21 for Available Perf or Mesh

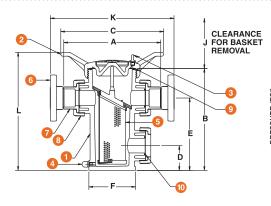
SB Series Simplex Basket Strainers

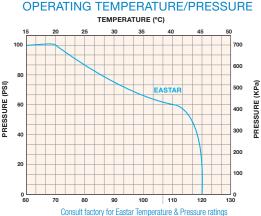
1/2" TO 4" CLEAR EASTAR®

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 O-Ring
- 10. End Connector O-Ring





| DIMENSIONS | | | | | | | | WEIGHT | | | | |
|-----------------|--------------|--------------|-------------|------------|--------------|--------------|-------------|--------------|-------------|---------------|---------------|--------------------|
| | | l | I | l | 1 | | I | l | I | lbs | / kg | |
| SIZE in / DN | A in / mm | B in / mm | in / mm | in / mm | E in / mm | F in / mm | in / mm | K in / mm | 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 | | | | | | | | | |
|--------------------------|------|-----------------|-----|----------|------|--|--|--|--|
| Pla | 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 | | | | | | |

PRESSURE LOSS CALCULATION FORMULA

 $\begin{array}{ll} \text{The pressure drop across} & \Delta P = \left[\frac{Q}{Cv}\right]^2 \\ \text{the strainer, for water or fluids} \\ \text{with a similar viscosity, can} \\ \text{be calculated using the} \\ \text{formula at the right:} & Cv = Flow Coefficient \\ \end{array}$

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.



⁻ Eastar is a registered trademark of Eastman

Hastelloy is a registered trademark of Haynes International Inc.
 Monel is a registered trademark of Special Metals Corporation.

HAYWARD



SB Series Simplex Basket Strainers

1/2" TO 4" GFPP BLACK AND GFPP PLATINUM

KEY FEATURES

- Available in Black or Platinum GFPP Materials
- True Union Design
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PP Baskets Standard

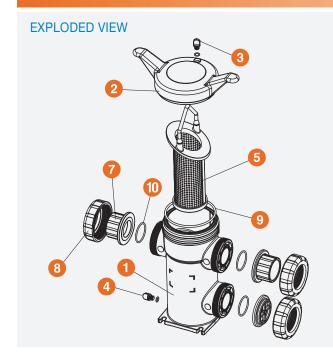
OPTIONS

- Drain Kit with Lockout Ball Valve
- Baskets Available with Perforated or Mesh Liners
- Stainless Steel, Monel®, Hastelloy® and Titanium Strainer Baskets
- · Pressure Differential Gauge and Switch

MATERIALS

- GFPP Cell Class 85580 per ASTM D4101
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION



| SIZE* | MATERIAL | END CONNECTION | SEALS | PRESSURE RATING | |
|-----------------------------|----------------------------------|--|--------|----------------------------|--|
| 1/2" - 4" (DN15 - DN100) | Black - GFPP Threaded or Flanged | | FPM or | 150 PSI @ 70°F | |
| | Platinum GFPP | Socket Fusion, Threaded or Flanged | EPDM | 10 Bar @ 21°C Non-Shock | |

- * PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Socket Fusion ends available only with Platinum units. Flanged ends available in DIN / EN PN10.
 ** See Page 21 for Available Perf or Mesh

PARTS LIST

1. Body - GFPP

2. Cover - GFPP

8. Nut - GFPP

TECHNICAL INFORMATION, CONTINUED

OPERATING TEMPERATURE/PRESSURE TEMPERATURE (°C) CLEARANCE FOR BASKET₆₀ REMOVAL 3. Vent Plug and O-Ring 4. Drain Plug and O-Ring 5. Basket - PP or Alloy PRESSURE 600 80 6. Flange (Optional) - GFPP 60 400 7. End Connector - GFPP or PP 20 9. Cover O-Ring - EPDM or FPM 10. End Connector O-Ring - EPDM or FPM

| DIMENSI | DIMENSIONS | | | | | | | | | WEIGHT lbs / kg | | |
|-----------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------------|---------------|--------------------|
| SIZE in / DN | A in / mm | B in / mm | C in / mm | D in / mm | E 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 | | | | | | | | | |
|--------------------------|------|-----------------|-----|----------|------|--|--|--|--|
| Pla | 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 | | | | | | |
| | | | | | | | | | |

PRESSURE LOSS CALCULATION FORMULA

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

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 | | |

TEMPERATURE (°F) Consult factory for Eastar Temperature & Pressure ratings

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.



Hastelloy is a registered trademark of Haynes International Inc.
 Monel is a registered trademark of Special Metals Corporation.





SB Series Simplex Basket Strainers

6" TO 8" PVC AND CPVC

KEY FEATURES

- Available in PVC and CPVC Materials
- Ergonomic Hand-Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVC or CPVC Baskets Standard
- NSF / ANSI 61 and NSF / ANSI 372 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
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

| SIZE | MATERIAL | END CONNECTION | SEALS | PRESSURE RATING |
|----------------------------|-------------|-------------------|----------------|--|
| 6" - 8" (DN150 - DN200) | PVC or CPVC | Flanged* | FPM or EPDM | 150 PSI @ 70°F 10 Bar @ 21°C Non-Shock |

^{*} Flanged Ends available in ANSI/ASME 150 or DIN/ EN PN10 ** See Page 21 for Available Perf or Mesh

TECHNICAL INFORMATION, CONTINUED

PARTS LIST OPERATING TEMPERATURE/PRESSURE 1. Body TEMPERATURE (°C) 2. Cover CLEARANCE FOR BASKET 160 35 75 85 115 1100 3. Vent Plug and O-Ring REMOVAL 1000 4. Drain Plug and O-Ring 5. Basket 800 PRESSURE (PSI) 6. Flange (Optional) 100 7. Cover O-Ring 80 R 200 20 100 Е TEMPERATURE (°F)

| 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 |
| 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

| Plastic | | 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 | | | |
| | | | | | | | | |

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: $\Delta P = \left[\frac{Q}{Cv}\right]^2 \\ \Delta P = \text{Pressure Drop} \\ Q = \text{Flow in GPM} \\ Cv = \text{Flow Coefficient}$

Cv VALUES

| SIZE in / DN | CV VALUES | | |
|-----------------|-----------|--|--|
| 6 / 150 | 1,000 | | |
| 8 / 200 | 750 | | |

The above Cv Values were determined using a 5 / 32" perforated plastic basket in 6'' and 8'' strainers.

To calculate pressure drop through vessels using other than 5 / 32" 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.



Hastelloy is a registered trademark of Haynes International Inc.
 Monel is a registered trademark of Special Metals Corporation.





DB Series Duplex Basket Strainers

1/2" TO 4" PVC, CPVC AND EASTAR®

KEY FEATURES

- Available in PVC, CPVC and Eastar® Materials
- 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

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

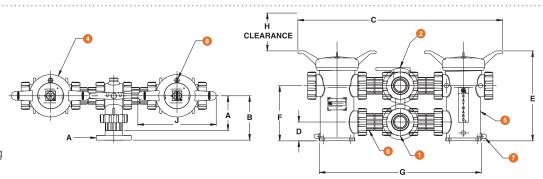
DB Series Duplex Basket Strainers

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 | | | | | | | | | | <mark>GHT</mark> / kg | |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------|----------------|
| 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 | 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 |

PRESSURE DROP CALCULATIONS

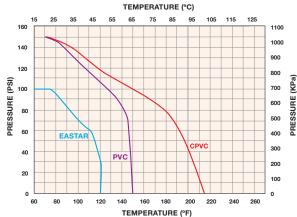
CORRECTION FACTORS

| | 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 | | | | | | |

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: $\Delta P = Pressure Drop$ $\mathsf{Q} = \mathsf{Flow} \; \mathsf{in} \; \mathsf{GPM}$ Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



Cv VALUES

| 0.777.120120 | | | | | | | | |
|-----------------|-----------|-----------------|-----------|--|--|--|--|--|
| 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.

Hayward is a registered trademark of Hayward Industries, Inc.
© 2019 Hayward Industries, Inc.

Eastar is a registered trademark of Eastman.
 Hastelloy is a registered trademark of Haynes International Inc.
 Monel is a registered trademark of Special Metals Corporation.





DB Series Duplex Basket Strainers

6" TO 8" PVC AND CPVC

KEY FEATURES

- Available in PVC and CPVC Materials
- 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
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

| SIZE* | MATERIAL | END CONNECTION | SEALS | PRESSURE RATING |
|----------------------------|-------------|-------------------|----------------|--|
| 6" - 8" (DN150 - DN200) | PVC or CPVC | Flanged* | FPM or EPDM | 150 PSI @ 70°F 10 Bar @ 21°C Non-Shock |

^{*} Flanged Ends available in ANSI/ASME 150 or DIN/ EN PN10

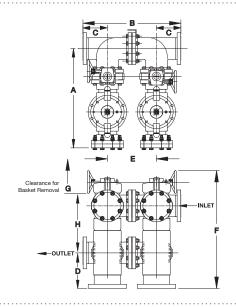
^{**} See Page 21 for Available Perf or Mesh

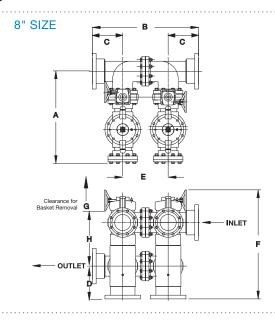
DB Series Duplex Basket Strainers

6" AND 8" PVC AND CPVC

TECHNICAL INFORMATION, CONTINUED







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 | WEIGHT lbs / kg |
|-----------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------------|
| 6 / 150 | 34.91 / 887 | 34.42 / 874 | 8.59 / 218 | 12.45 / 316 | 17.24 / 438 | 41.40 / 1052 | 21.80 / 554 | 16.53 / 420 | 180.00 / 81.65 |
| 8 / 200 | 42.70 / 1085 | 53.15 / 1350 | 13.27 / 337 | 12.45 / 316 | 26.62 / 676 | 42.52 / 1080 | 28.75 / 730 | 16.53 / 420 | 250.00 / 113.40 |

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

PRESSURE DROP CALCULATIONS

BASKET PERFORATION CORRECTION FACTORS

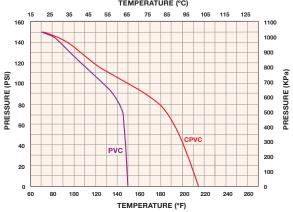
| | For 6" to 8" Strainers | | | | | | | | | |
|-------|------------------------|-------|-----------------|----------|------|--|--|--|--|--|
| Pla | stic | | Stainless Steel | | | | | | | |
| 1/8" | 2.00 | 1/32" | 2.25 | 20 Mesh | 2.16 | | | | | |
| 3/16" | 1.50 | 1/16" | 2.03 | 40 Mesh | 2.79 | | | | | |
| | | 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 | | | | | | | |

PRESSURE LOSS CALCULATION FORMULA

 $\Delta P = \left[\frac{Q}{Cv}\right]^2$ $\Delta P = \text{Pressure Drop}$ Q = Flow in GPM Cv = Flow Coefficient

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

OPERATING TEMPERATURE/PRESSURE



Cv VALUES

| SIZE in / DN | Cv VALUES GPM |
|-----------------|------------------|
| 6 / 150 | 1,000 |
| 8 / 200 | 750 |

 The Cv Values were determined using a 5/32" perforated plastic basket in 6" and 8" strainers.

To calculate pressure drop through vessels using other than 5/32" 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.



Hastelloy is a registered trademark of Haynes International Inc.
 Monel is a registered trademark of Special Metals Corporation.



How to Select a Basket Strainer

SELECTION CRITERIA

The first consideration when selecting a Hayward basket strainer is the amount of free open area. This is the ratio of the open area through the strainer basket to the cross sectional area of the pipe. A well-designed basket strainer should have an open area ratio of at least 4 to 1. Anything less may cause excessive pressure drop. The area is calculated with a clean basket — and as the basket begins to clog, the ratio will drop. Unless there is a wide safety margin, the area through the basket may quickly become smaller than the pipe area. This will reduce flow through the strainer and necessitate very frequent cleaning. A small open area ratio also means the holding capacity of the basket is small (an important consideration if there is a lot of solid material to be removed.)

Second, is ease of basket removal. Since a basket strainer is used where cleaning may occur often, it stands to reason that the basket should be able to be removed and replaced as simply as possible. Hayward Simplex and Duplex strainers feature hand removable, threaded covers which can be quickly loosened or tightened by hand without the use of tools.

Another item to look for in selecting a strainer is compactness of design. Is the strainer unnecessarily bulky or tall? In many industrial areas, space is at a premium and the less room a strainer takes the better.

Lastly, a wide variety of basket perforation sizes should be available. This is necessary to cope with the great range of particle sizes which the strainer may be called upon to remove.

SELECTION AND SIZING

Selecting the proper size basket strainer for a particular application is extremely important for optimum performance of the strainer. Factors such as viscosity, specific gravity and mesh lining size all influence pressure drop of flow through the strainer. As a general rule of thumb, a pressure drop of greater than 2 PSI through a clean strainer usually indicates the strainer selected is too small for the intended application.

In some cases, the strainer size may not always be the same size as the pipe diameter. For example, the pressure drop of highly viscous liquids passing through a mesh basket can cut flow considerably making it necessary to use a strainer several times larger than pipeline to ensure adequate flow. Likewise, if an unusually large amount of material needs to be taken out of the process flows, a larger strainer or multiple strainer should be specified. By using two strainers in series, the first with large openings designed to catch larger particles and the second with a fine mesh lining to trap smaller material, the load is spread over two strainers and time between maintenance for cleaning is also extended.

PROPER BASKET SELECTION

The question of which perforation or mesh lining size to use comes up regularly. Here again, the basic rule is to use the coarsest size which will strain out the product to be removed. Using a finer mesh than needed will only result in premature clogging. When in doubt about which of two basket screens to use, it is best to choose the larger. As a rule of thumb, size the baskets for one half the particle size to be removed.

BASKET SIZES OFFERED FOR HAYWARD SIMPLEX AND DUPLEX PLASTIC BASKET STRAINERS

Comparative Particle Size

| PERF | INCHES | MILLIMETERS | MICRONS | MESH | INCHES | MILLIMETERS | MICRONS |
|------|--------|-------------|---------|------|--------|-------------|---------|
| 1/32 | 0.033 | 0.838 | 838 | 200 | 0.0027 | 0.0686 | 68 |
| 1/16 | 0.070 | 1.778 | 1776 | 100 | 0.0065 | 0.1651 | 165 |
| 3/32 | 0.094 | 2.387 | 2387 | 80 | 0.007 | 0.1778 | 177 |
| 1/8 | 0.125 | 3.175 | 3175 | 60 | 0.009 | 0.2286 | 228 |
| 5/32 | 0.150 | 3.810 | 3810 | 40 | 0.015 | 0.8636 | 380 |
| 3/16 | 0.1875 | 4.762 | 4762 | 20 | 0.034 | 0.8636 | 862 |
| 1/4 | 0.250 | 6.350 | 6350 | | | | |
| 3/8 | 0.375 | 9.525 | 9525 | | | | |

^{*}Perforations available in PVC, CPVC, PP, Stainless Steel, Monel, Hastelloy and Titanium

^{**}Mesh Baskets only in Stainless Steel, Monel, Hastelloy and Titanium

^{***}Not all perf or mesh sizes may be available or suitable for all strainer, consult with factory

Flow of Water Through Schedule 80 Plastic Pipe

| DISCHARGE | | | VELOCITY IN SCHEDULE 80 PLASTIC PIPE FOR WATER @ 60°F/16°C VELOCITY | | | | | | | |
|--------------|--------------------|--------------------|---|-------------------|---------------------------------------|-----------------------|-------------------|------------------|----------------------|----------------|
| GALLONS / | CUBIC METER/ | | FEET/SECOND | FEET/SECOND | FEET/SECOND | FEET/SECOND | I | FEET/SECOND | FEET/SECOND | FEET/SECOND |
| MINUTE | HOUR | SECOND | T LE I/OLOGNID | 1/4"/DN8 | 3/8"/DN10 | 1/2"/DN15 | 3/4"/DN20 | 1"/DN25 | 1-1/4"/DN32 | 1-1/2"/DN40 |
| 0.2 | 0.05 | 0.000446 | _ | 0.824 | — — — — — — — — — — — — — — — — — — — | — I/Z /DIVIS | — UNE TO NE O | — T /DN23 | — | — |
| 0.3 | 0.07 | 0.000668 | _ | 1.237 | 0.651 | 0.392 | _ | _ | _ | _ |
| 0.4 | 0.09 | 0.000891 | _ | 1.646 | 0.867 | 0.529 | _ | _ | _ | _ |
| 0.5 | 0.11 | 0.00111 | _ | 2.061 | 1.083 | 0.653 | 0.359 | _ | _ | _ |
| 0.6 | 0.14 | 0.00134 | _ | 2.476 | 1.303 | 0.782 | 0.431 | _ | _ | _ |
| 0.8 | 0.18 | 0.00178 0.00223 | _ | 3.295 4.122 | 1.728 2.167 | 1.043 1.311 | 0.574 0.718 | 0.435 | _ | _ |
| 2 | 0.25 | 0.00223 | | 8.245 | 4.335 | 2.609 | 1.432 | 0.433 | 0.525 | |
| 3 | 0.68 | 0.00668 | _ | 12.381 | 6.502 | 3.919 | 2.161 | 1.306 | 0.788 | 0.538 |
| 4 | 0.91 | 0.00891 | 2" | 16.502 | 8.671 | 5.218 | 2.876 | 1.747 | 1.051 | 0.717 |
| 5 | 1.14 | 0.01114 | _ | _ | 10.837 | 6.528 | 3.592 | 2.181 | 1.313 | 0.896 |
| 6 | 1.36 | 0.01337 | 0.65 | 2-1/2" | 13.005 | 7.827 | 4.308 | 2.614 | 1.579 | 1.076 |
| 8 | 1.82 | 0.01782 | 0.86 | _ | | 10.448 | 5.741 | 3.482 | 2.105 | 1.434 |
| 10 | 2.27 | 0.02228 | 1.08 | 0.752 | 3" | 13.057 | 4.351 | 2.632 | 2.632 | 1.798 |
| 15 | 3.41 | 0.03342 | 1.61 | 1.134 | _ | _ | 10.778 | 6.531 | 3.941 | 2.697 |
| 20 | 4.54 | 0.04456 | 2.15 | 1.505 | 0.986 | _ | | 8.712 | 5.252 | 3.596 |
| 25 | 5.68 | 0.0557 | 2.69 | 1.886 | 1.238 | _ | 4" — | 10.881 | 6.574 | 4.484 |
| 30 35 | 6.81 7.95 | 0.06684 0.07798 | 3.23 3.78 | 2.256 2.638 | 1.476 1.726 | _ | 0.973 | 13.062 15.232 | 7.884 9.193 | 5.383 6.282 |
| 40 | 9.09 | 0.07730 | 4.32 | 3.009 | 1.976 | | 1.114 | 17.413 | 10.515 | 7.171 |
| 45 | 10.22 | 0.1003 | 4.84 | 3.391 | 2.215 | _ | 1.247 | — — | 11.838 | 8.069 |
| 50 | 11.36 | 0.1114 | 5.39 | 3.761 | 2.465 | _ | 1.391 | _ | 13.147 | 8.969 |
| 60 | 13.63 | 0.1337 | 6.47 | 4.513 | 2.953 | _ | 1.665 | _ | 15.779 | 10.778 |
| 70 | 15.90 | 0.156 | 7.55 | 5.266 | 3.453 | _ | 1.942 | _ | _ | 12.577 |
| 80 | 18.17 | 0.1782 | 8.62 | 6.018 | 3.942 | _ | 2.228 | _ | 6"/DN150 | 14.36 |
| 90 | 20.44 | 0.2005 | 9.69 | 6.771 | 4.442 | _ | 2.504 | _ | _ | 16.162 |
| 100 | 22.71 | 0.2228 | 10.77 | 7.523 | 4.931 | _ | 2.781 | _ | 1.225 | 17.96 |
| 125 | 28.39 | 0.2785 | 13.48 | 9.409 | 6.168 | _ | 3.475 | _ | 1.534 | 22.445 |
| 150 | 34.07 | 0.3342 | 16.18 | 11.284 | 7.395 | _ | 4.171 | _ | 1.893 | |
| 175 | 39.75 | 0.3899 | 18.87 | 13.171 | 8.633 | _ | 4.865 | _ | 2.141 | 8"/DN200 |
| 200 225 | 45.43 51.10 | 0.4456 0.5013 | 21.56 | 15.068 16.943 | 9.861 11.098 | _ | 5.561 6.255 | _ | 2.451 2.759 | 1.577 |
| 250 | 56.78 | 0.557 | | 10.343 | 12.325 | _ | 6.951 | _ | 3.069 | 1.752 |
| 275 | 62.46 | 0.6127 | _ | _ | 13.563 | _ | 7.645 | _ | 3.367 | 1.927 |
| 300 | 68.14 | 0.6684 | _ | _ | 14.768 | _ | 8.341 | _ | 3.675 | 2.102 |
| 325 | 73.82 | 0.7241 | _ | _ | 16.041 | _ | 9.035 | _ | 3.985 | 2.277 |
| 350 | 79.49 | 0.7798 | _ | _ | _ | _ | 9.731 | _ | 4.294 | 2.453 |
| 375 | 85.17 | 0.8355 | _ | _ | _ | _ | 10.425 | _ | 4.592 | 2.628 |
| 400 | 90.85 | 0.8912 | _ | _ | _ | _ | 11.121 | _ | 4.901 | 2.803 |
| 425 | 96.53 | 0.9469 | 10"/DN250 | _ | _ | _ | 11.815 | _ | 5.211 | 2.989 |
| 450 | 102.21 | 1.003 | _ | _ | _ | _ | 12.511 | _ | 5.519 | 3.164 |
| 475 | 107.88 | 1.059 | 2.199 | _ | _ | _ | 13.205 | _ | 5.817 | 3.329 |
| 500 | 113.56 | 1.114 | 2.229 | _ | _ | _ | 13.901 | _ | 6.126 | 3.515 |
| 550 600 | 124.92 136.28 | 1.225 1.337 | 2.459 2.679 | 12"/DN300 | _ | _ | 15.279 16.681 | _ | 6.744 7.352 | 3.865 4.215 |
| 650 | 147.63 | 1.225 | 2.899 | 12 /DN300 — | _ | | | _ | 7.971 | 4.566 |
| 700 | 158.99 | 1.56 | 3.129 | 2.205 | _ | _ | _ | _ | 8.588 | 4.916 |
| 750 | 170.34 | 1.671 | 3.349 | 2.359 | _ | _ | _ | _ | 9.195 | 5.267 |
| 800 | 181.70 | 1.56 | 3.569 | 2.513 | _ | _ | _ | _ | 9.802 | 5.617 |
| 850 | 193.06 | 1.782 | 3.799 | 2.677 | _ | _ | _ | _ | 10.421 | 5.968 |
| 900 | 204.41 | 2.005 | 4.019 | 2.831 | _ | _ | _ | _ | 11.028 | 6.318 |
| 950 | 215.77 | 2.117 | 4.239 | 2.984 | _ | | _ | _ | 11.646 | 6.668 |
| 1000 | 227.13 | 2.228 | 4.469 | 3.149 | _ | _ | _ | _ | 12.253 | 7.019 |
| 1100 | 249.84 | 2.451 | 4.919 | 3.458 | | _ | _ | _ | 13.489 | 7.719 |
| 1200 1300 | 272.55 | 2.674 2.896 | 5.359 | 3.775 | _ | _ | _ | _ | 14.715 | 8.431 |
| 1400 | 295.26 317.98 | 3.119 | 5.809 6.259 | 4.093 4.401 | _ | _ | _ | _ | 15.929 17.165 | 9.121 9.833 |
| 1500 | 340.69 | 3.342 | 6.698 | 4.401 | _ | | | _ | 18.391 | 10.534 |
| 1600 | 363.40 | 3.565 | 7.148 | 5.037 | | _ | | _ | 19.611 | 11.235 |
| 1800 | 408.83 | 4.01 | 8.038 | 5.662 | _ | _ | _ | _ | 22.067 | 12.636 |
| 2000 | 454.25 | 4.456 | 8.938 | 6.228 | _ | _ | _ | _ | 24.517 | 14.038 |
| 2500 | 567.81 | 5.57 | 11.168 | 7.868 | _ | _ | _ | _ | _ | 17.552 |
| 3000 | 681.38 | 6.684 | 13.396 | 9.437 | _ | _ | _ | _ | _ | 21.068 |
| 3500 | 794.94 | 7.798 | 15.637 | 11.006 | _ | _ | _ | _ | _ | 24.572 |
| 4000 | 908.50 | 8.912 | 17.866 | 12.587 | _ | _ | _ | _ | _ | 28.08 |
| 4500 | 1022.06 | 10.13 | 20.106 | 14.156 | I — | l — | | l — | - | 31.613 |
| 5000 | 1135.63 | 11.14 | The following wa | ave surge constan | ts may be used to | quickly calculate | pressure rise due | to water hammer | where: "C"= the | wave surge |
| 6000 | 1362.75 | 13.37 | constant from th | e table below mu | Itiplied by "V" the | line velocity in feet | | | is then added to the | |
| 7000 | 1589.88 | 15.6 | | | urge (Water Hamn | | | | | • |
| 8000 9000 | 1817.00 2044.13 | 17.82 20.05 | Pine | Size | 1/4" 1/2" | 3/4" 1" | 1-1/2" 2" | 3" 4" | 6" 8" | 10" 12" |
| 10000 | 2271.25 | 22.28 | | stant | 40 35 | 32 31 | 27 25 | 23 23 | 21 20 | 19 19 |
| 12000 | 2725.50 | 26.74 | | | ocity is 8 feet per | | | | | |
| | | | | | , o .oo. poi | | 5 .00t por 0 | , | | |



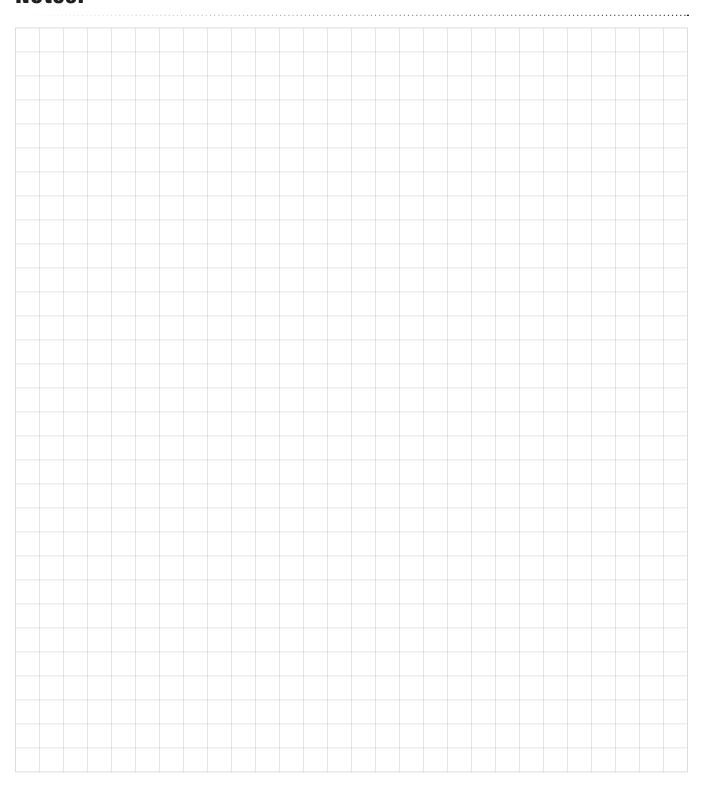
Application Information Form for Y-Strainers, Simplex and Duplex Basket Strainers

LIQUID/CHEMICALS TO BE STRAINED **FLOW CONDITIONS** Flow (GPM) ___ __ Maximum ___ ____OR LBS/HR Steam or Gas Flow _ STD CU FT/MIN (SCFM) ____ (Give minimum working pressure for gas applications) Operating Pressure (PSI) ____ _____ Normal __ Design _____ Minimum Operating Temperature (°F) ______ Normal _____ Design _____ Minimum _____ Dirty ____ Maximum Allowable Pressure Drop: Clean _____ PSI PSI Can flow be interrupted to clean strainer basket? \square Yes \square No **CONTAMINANT** Solids to be Removed Are they? ☐ Soft ☐ Fibrous ☐ Hard ☐ Sticky PPM Solids Concentration % WT % Volume Particle Size Microns, or Mesh or Perforation STRAINER CONSTRUCTION Body & Cover: ☐ PVC ☐ GFPP Black ☐ GFPP Platinum \square CPVC ☐ Fastar® Pipe Size (inches) _ End Connections: ☐ Threaded ☐ Socket Weld ☐ Socket Fusion ☐ Flanged ☐ ANSI ☐ EN/DIN PN10 O-Ring Seal Material: \Box FPM ☐ EPDM SPECIAL FEATURES REQUIRED Differential Pressure: ☐ Gauge Switch □ Drain Valve ☐ Vent Valve SUBMITTALS (CHECK IF REQUIRED) ☐ Hydro Test Reports ☐ Certificate of Origin ☐ Certificate of Material Conformance

NOTICE: The data contained in this publication are correct to the best of our knowledge. However, we do not assume any liability for the accuracy or completeness of such data. The final determination of suitability of product and information, use intended, manners of that use, or infringement of patents is the responsibility of the user.

Selection of products and features is limited to what is currently offered by Hayward. Material selection subject to change to comply to chemical resistance or product performance

Notes:



Other Filtration Solutions from Hayward Flow Control...

GFPP FLV SERIES BAG & CARTRIDGE FILTERS

- Platinum Glass Filled Polypropylene Material
- One-Piece Injection Molded Construction with True Union Connections
- Hand Removable, Ergonomic Cover with Liquid Displacing Dome
- Vent Valve Included On Cover
- In-Line or Loop Configuration
- Integral Mounting Base
- Available for Bags or Cartridges
- Duplex and Triplex Assemblies



- Available in PVC or CPVC Materials
- True Union End Connections Socket, Threaded or Flanged
- Hand Removable, Ergonomic Cover with Liquid Displacing Dome
- Vent Valve Included on Cover
- Rated up to 100 GPM Flow Rates
- Solid 1-Piece Basket
- In-Line or Loop Flow Configurations
- Drain Port at Bottom
- Integral Mounting Base



INDUSTRIAL FILTER BAGS

- PP Needle Felt, Polyester Needle Felt, PP Mesh or Nylon Mesh
- 1 to 800 Micron Ratings
- Thermoplastic Ring Seal
- Thermoplastic Flange Seal
- Heavy Duty Welded Construction
- Silicone-Free



HIGH CAPACITY PLEATED CARTRIDGES

- Multiple Micron Ratings for High Efficiency Filtration
- Available in 7" and 2-1/2" Diameters, Single and Double Length
- High Surface Area Design Provides Excellent Flow Rates and Comprehensive Service Life
- Thermally Bonded DOE End-Caps, Core and Filter Media
- Low Pressure Drop
- Multiple Layered Media Construction Guarantees Dependable Performance



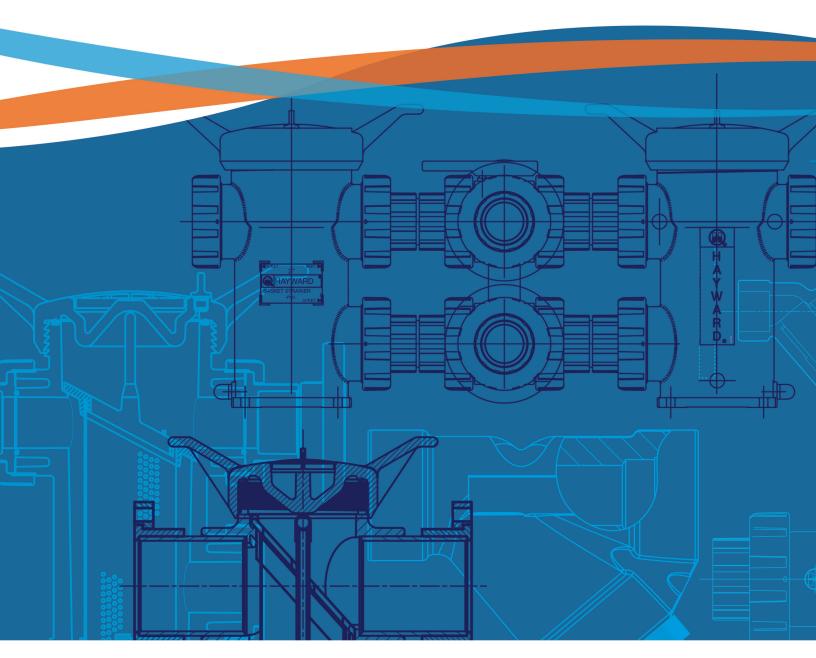
LS SERIES AQUATIC SAND FILTER

- Ideal for Sensitive Aquatic Environments or Salt Water Systems
- All Wetted Hardware Manufactured from 316 Stainless Steel
- Corrosion Resistant Thermoplastic Housing and Base
- Durable Flanged Inspection Cover
- Integral Top Diffuser
- Efficient, Multilateral Underdrain Assembly
- Intergral Molded Drain Plug

HCF SERIES COMMERCIAL SAND FILTER

- Ideal for Fresh Water Systems
- UV-Protectant Gel Coat Protects Filter From Elements
- Transparent Manway Design Simplifies Operation and Improves Durability
- Commercial-grade PVC and ABS Injection Molded Internals With 360° Slotted Laterals
- Industrial Valve and Pressure Gauge
- Available in 30", 34" and 36" sizes
- Flow Rates up to 143GPM
- NSF/ANSI 50 Listed







Eastar is a trademark of Eastman.
 Hastelloy is a registered trademark of Haynes International, Inc.
 Monel is a registered trademark of Advanced Elastomer Systems.

SPG0419

Authorised Distributor of Hayward Flow Control, a Division of Hayward Industries, Inc

Hayward Flow Control has been a leading manufacturer of industrial thermoplastic valves and process control products for more than 60 years. In fact, Hayward was one of the originators of the first thermoplastic ball valves. Since then, we have remained committed to producing the highest quality products while providing outstanding service.

Liquid Filters and Strainers



Bag Filter vessel

- GFPP
- o PVC
- o CPVC



Simplex Strainers

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



Y Strainers

- o PVC
- o CPVC
- o Clear PVC
- o PVDF



Duplex Strainers

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

Valves and Flow Control



Ball Valves

- PVC
- o CPVC
- o GFPP
- PVDF



Butterfly Valves

- o PVC
- o CPVC
- o GFPP
- o PP
- PVDF



Check Valves

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



Actuation

- Electric
- o Pneumatic



Pressure & Chemfeed

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



Solenoid Valves

- o PVC
- CPVC
- o PVDF



MONARCH INDUSTRIAL PRODUCTS

Australia

Monarch Asia Pacific Pty Ltd Unit 3 8 Bult Drive Brendale, QLD 4500

Phone: +61 (0) 7 3889 9949



PSF Equipment (Thailand) Co Ltd 11 Soi Suanphak 42 Suanphak Road, Chimphli Talingchan, Bangkok 10170

Phone: +66 (0) 2 882 5512 Fax No: +66 (0) 2 424 3725

www.psfthailand.com

www.monarcindustrial.com.au