For more than 50 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 Flow Control now introduces the patent-pending FLV Series Filter, the most advanced all thermoplastic bag filter built today. Built in our North Carolina facility and 100% made in the USA, the FLV Series Filter features a one piece injection molded Platinum GPP® body to accommodate bag sizes 1 and 2. Unlike traditional metal and plastic filters, the FLV Series Filter’s true union design allows for multiple end connections to be used in sizes 1-1/4” to 4”. You pick the end connection that best meets the needs of your piping system. Even more revolutionary is our new hinged basket design to allow for quick and easy removal of extremely heavy bags in the most demanding applications. The FLV Series Filter can be ordered as a simplex, duplex, triplex or quadplex unit.

And don’t forget Hayward’s industry leading thermoplastic Basket and Y-Strainers to protect pipeline system components and maintenance facilities from dirt and debris while allowing process media to flow freely. Simplex and duplex strainers are manufactured in PVC, CPVC, GPP and clear Eastar®, and are available with thermoplastic, stainless steel or alloy, perforated and mesh lined baskets in a wide range of sizes. Our Y-Strainers are offered in PVC, clear PVC or CPVC, with FPM or EPDM seals.

All Hayward Flow Control products carry an industry-leading, full two-year warranty. When we build our products, we strive for the highest quality possible for use in a wide range of demanding applications. Hayward Flow Control is an ISO 9001:2008 certified manufacturer.
# FLV Series Filter Vessels

All thermoplastic, glass filled polypropylene injection molded construction, for superior corrosion resistance performance.

## TECHNICAL INFORMATION

### HOW TO SELECT A PART NUMBER

<table>
<thead>
<tr>
<th>SERIES</th>
<th>PREFIX</th>
<th>MATERIAL</th>
<th>COLOR</th>
<th>VESSEL SIZE</th>
<th>STYLE</th>
<th>PIPE CONNECTION SIZE</th>
<th>TRUE UNION CONNECTION TYPE</th>
<th>END CONNECTOR MATERIAL</th>
<th>O-RINGS</th>
<th>MISC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vessel with Strainer - No Bag</td>
<td>FLV</td>
<td>GFPP</td>
<td>Platinum Gray</td>
<td>16&quot;</td>
<td>Simplex</td>
<td>1-1/4&quot;</td>
<td>Threaded</td>
<td>PVC</td>
<td>FPM</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>32&quot;</td>
<td>Duplex</td>
<td>1-1/2&quot;</td>
<td>Socket</td>
<td>CPVC</td>
<td>EPDM</td>
<td>E</td>
</tr>
<tr>
<td>Vessel - Cartridge Ready</td>
<td>CFLV**</td>
<td>Triplex</td>
<td>T</td>
<td>2&quot;</td>
<td>2</td>
<td>Socket and threaded</td>
<td>ST</td>
<td>PP</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quadplex</td>
<td>Q</td>
<td>2-1/2&quot;</td>
<td>25</td>
<td></td>
<td></td>
<td>GPP</td>
<td>4</td>
<td></td>
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</tbody>
</table>

To find your part number, please select your Series, Material, Color, etc., and place the corresponding identifier (FLV, 4, P, etc.) in the boxes below.

**EXAMPLE**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>PREFIX</th>
<th>VESSEL SIZE</th>
<th>STYLE</th>
<th>PIPE CONNECTION SIZE</th>
<th>TRUE UNION CONNECTION TYPE</th>
<th>END CONNECTOR MATERIAL</th>
<th>O-RINGS</th>
<th>MISC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLV</td>
<td>4</td>
<td>P</td>
<td>1</td>
<td>S</td>
<td>20</td>
<td>T</td>
<td>4</td>
<td>V</td>
</tr>
</tbody>
</table>

Chart may not represent all available combinations. Please consult factory for questions on choices not shown here.

* Sizes available in double length only

**Order Cartridge Adapter Kit separately**
FLV Series Filter Vessel

- **Vent Valve**
- **True Union End Connections** for versatile configurations
- **Alternate Inlet Boss**
- **Ports Clearly Marked**
- **Manufacturer’s Mark**
- **One-Piece Injection Molded Body**
- **Alternate Outlet Boss**
- **Ports Clearly Marked**
- **QR Code to IOM**
- **Ergonomic Handles Raised to Protect Vent Valve**
- **Differential Pressure Boss Access Points**
- **Mounting Pad for Differential Pressure Gauge and Switch**
- **Pressure Rating Clearly Marked**
- **Made in USA**
- **Integrally Molded Mounting Pad**
FLV Series Filter Basket

- ERGONOMIC, LOCKDOWN HANDLE SECURES BAG WITHIN BASKET
- O-RING ASSURES FACE-STYLE SEAL AGAINST CHAMFERED VESSEL INTERIOR
- VERTICAL FLUTED SLOTS PREVENT BAG SNAG AND ALLOW MORE OPEN FLOW AREA
- MOLDED-IN LEGS ALLOW BASKET TO STAND FREELY
- BAG RETAINING RING PREVENTS BY-PASS OF BAG AND DIRECTS FLOW TO CENTER OF BAG
- BASKET RETAINING RING LOCKS INTO BASKET CREATING SINGLE UNIT
- HINGED DESIGN ALLOWS ANY DEGREE OF BASKET OPENING
- CHAMFERED VESSEL INTERIOR
**FLV Series Filter Vessel, FEATURES**

**COVER**
- Ergonomic Handles Raised to Protect the Vent Valve
- Integral Pressure Relief Valve Threads in Cover
- Vent Valve Provided with Every Vessel
- Solid, Buttress Threads
- Liquid Displacing Dome Inside Cover
- Cover Retains Pressure with Hand-Tight Seal (No Additional Tools Necessary)

**BODY**
- Self-Draining O-Ring Groove Directs Overflow Back Inside Vessel
- Pressure Energized Face-Style Seal Prevents Basket Sticking
- No Internal Threads
- Chamfered Interior Shoulder Surface Ensures Basket Sealing
- Molded-In Legs Assure Proper Basket Placement Within Vessel
- Drill and Tap Locations and Mounting Pads for Differential Pressure Gauges
- Optional Drill and Tap NPT (Offset) Ports Available (Must be Ordered) for Alternate Configurations
- Integrally Molded True Union End Connections
- QR Code on Vessel Label Leads Directly to Online IOM
FLV Series Filter Vessel, FEATURES – CONTINUED

BASKET
- Hinged Basket can be Fully Opened Without Coming Apart
- Basket Design Allows for Quicker and Cleaner Bag Removal
- Ergonomically Molded Basket Lockdown Handle
- Basket Lockdown Handle and Ring Secures Bag Within Filter Vessel
- Basket Retaining Ring has Turn-N-Lock Feature Which Secures Basket and Ring Together as Single Entity Until Necessary to Take Apart (Bags can be Replaced Without Disassembling the Components)
- Vertical Flute Slots Prevent Bag Catching and Allow More Open Flow Area
- Solid Basket for High Differential Pressure Available

TRUE UNION END CONNECTIONS
- Allows for Various Sizes and Options Which Includes Socket, Threaded and Flanged
- Makes Disconnect of Filter Vessel from the Line Easier for Replacement or Maintenance
- Versatile Flow Path for In-line or Loop Configurations (Easily Changed by User)
- Size range of 1-1/4” – 4”
- No Direct Threading into the Vessel Required

MOUNTING PAD
- Features Same Footprint as Previous Generation
- Stand-Alone Mounting Capabilities
- Slotted for Easy Installation
FLV Series Filter Vessel, EXPLODED VIEW

PARTS LIST

1. Vent Valve (Included)
2. Hayward Bezel
3. Cover
4. Basket
5. Basket Ring with Lock Down Handle
6. Bag Retaining Ring
7. Cover O-Ring
8. Filter Vessel Body
9. End Cap
10. End Connector O-Ring
11. End Connector
12. Assembly Nut
13. Alternate 2” NPT Ports (Optional)
14. Integrally Molded Mounting Pad
FLV Series
Simplex Bag Filters
DOUBLE LENGTH – 32” GFPP
1-1/4” TO 2” PIPE SIZES

KEY FEATURES
• Platinum Glass Filled Polypropylene
• One-Piece Injection Molded Construction
• Hand Removable, Ergonomic Cover with Liquid Displacing Dome
• Vent Valve Included on Cover
• Rated up to 100 GPM
• True Union Socket, Threaded or Flanged End Connections
• In-Line or Loop Flow Configurations
• Hinged Basket for Easy Bag Removal
• Drain Port at Bottom
• Integral Mounting Base

BENEFITS
• Easier Installations Due to True Union Connectivity
• Simplified Bag Removal from Hinged Basket
• Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

TYPICAL APPLICATIONS
• Water and Wastewater Treatment
• Chemical Processing
• Food and Beverage
• Metal Plating
• Aquatic and Animal Life Support Systems
• Water/Theme Parks
• Aquaculture

OPTIONS
• Gauge with Gauge Guard
• Pressure Differential Gauge and Switch
• EPDM O-Ring Seals
• Cartridge Adapters

MATERIALS
• GFPP per ASTM D4101, Cell Class 85580
• FPM Standard O-Ring Seals

TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>SIZE / BODY MATERIAL</th>
<th>END CONNECTIONS</th>
<th>PIPING SIZES</th>
<th>O-RING SEALS</th>
<th>PRESSURE RATING (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Length</td>
<td>GFPP (Threaded and Flanged)</td>
<td>1-1/4” – 2” rated @ 100 GPM*</td>
<td>FPM or EPDM</td>
<td>150 PSI @ 70°F Non-Shock (10 Bar / 1 MPa @ 21°C)</td>
</tr>
<tr>
<td>7” x 32” GFPP</td>
<td>PVC (Socket and Flanged)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CPVC (Socket and Flanged)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* May be Limited by Pipe Size or Bag Choice
FLV Series Simplex Bag Filters
DOUBLE LENGTH – 32” GFPP
1-1/4” TO 2” PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*
1. Vent Valve (Included)
2. Cover
3. Filter Vessel Body
4. End Connector
5. Assembly Nut
6. Alternate 2” NPT Ports
7. Integrally Molded Mounting Pad

* See page 8 for a complete Parts List

DIMENSIONS – INCHES / MILLIMETERS

<table>
<thead>
<tr>
<th>VESSEL SIZE</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H*</th>
<th>J</th>
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<tbody>
<tr>
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<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
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<tr>
<td>1-1/4” / 32</td>
<td>8.86 / 225</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>7.60 / 193</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
</tr>
<tr>
<td>1-1/2” / 40</td>
<td>8.86 / 225</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>7.60 / 193</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
</tr>
<tr>
<td>2” / 50</td>
<td>8.91 / 226</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>7.60 / 193</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
</tr>
</tbody>
</table>

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

OPERATING TEMPERATURE / PRESSURE

Pressure Rating: 150 PSI @ 70°F Non-Shock

O-Ring Seals: FPM or EPDM

Bag Ratings: 1, 5, 10, 25, 50, 100, 150, 200, 400, 600 and 800 Microns

Flow Rate: 100 GPM (May be Limited by Pipe Size or Bag Choice)

Weight: 64.1 lbs.
FLV Series
Simplex Bag Filters
DOUBLE LENGTH – 32” GFPP
2-1/2" TO 4" PIPE SIZES

KEY FEATURES
- Platinum Glass Filled Polypropylene
- One-Piece Injection Molded Construction
- Hand Removable, Ergonomic Cover with Liquid Displacing Dome
- Vent Valve Included on Cover
- Rated up to 150 GPM
- True Union Socket, Threaded or Flanged End Connections
- In-Line or Loop Flow Configurations
- Hinged Basket for Easy Bag Removal
- Drain Port at Bottom
- Integral Mounting Base

BENEFITS
- Easier Installations Due to True Union Connectivity
- Simplified Bag Removal from Hinged Basket
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

TYPICAL APPLICATIONS
- Water and Wastewater Treatment
- Chemical Processing
- Food and Beverage
- Metal Plating
- Aquatic and Animal Life Support Systems
- Water/Theme Parks
- Aquaculture

OPTIONS
- Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM O-Ring Seals
- Cartridge Adapters

MATERIALS
- GFPP per ASTM D4101, Cell Class 85580
- FPM Standard O-Ring Seals
FLV Series Simplex Bag Filters
DOUBLE LENGTH – 32” GFPP
2-1/2” TO 4” PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*
1. Vent Valve (Included)
2. Cover
3. Filter Vessel Body
4. End Connector
5. Assembly Nut
6. Alternate 2” NPT Ports
7. Integrally Molded Mounting Pad

* See page 8 for a complete Parts List

DIMENSIONS – INCHES / MILLIMETERS

<table>
<thead>
<tr>
<th>VESSEL SIZE</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H*</th>
<th>J</th>
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<td>in / mm</td>
<td>in / mm</td>
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<tr>
<td>2-1/2” / 65</td>
<td>9.79 / 249</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>8.38 / 213</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
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<td>3” / 80</td>
<td>9.73 / 247</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>8.38 / 213</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
</tr>
<tr>
<td>4” / 100</td>
<td>10.17 / 258</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>8.38 / 213</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
</tr>
</tbody>
</table>

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

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE

<table>
<thead>
<tr>
<th>WORKING PRESSURE (PSI)</th>
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<tbody>
<tr>
<td>TEMPERATURE °F</td>
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<table>
<thead>
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<th>100</th>
<th>120</th>
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<th>160</th>
<th>180</th>
<th>200</th>
<th>220</th>
<th>240</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Material of Construction:
GFPP

Inlet Connections:
GFPP (Threaded and Flanged)
PVC (Socket and Flanged)
CPVC (Socket and Flanged)

Outlet Connections:
GFPP (Threaded and Flanged)
PVC (Socket and Flanged)
CPVC (Socket and Flanged)

Bag Size:
Bag Size #2: 7” x 32”

Pressure Rating:
150 PSI @ 70°F Non-Shock

O-Ring Seals:
FPM or EPDM

Bag Ratings:
1, 5, 10, 25, 50, 100, 150, 200, 400, 600 and 800 Microns

Flow Rate:
150 GPM (May be Limited by Pipe Size or Bag Choice)

Weight:
69.1 lbs.

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Contact Hayward Flow Control with questions: 1-888-429-4635 • Fax: 1-888-778-8410 • One Hayward Industrial Drive • Clemmons, NC 27012 • USA
Visit us at: www.haywardflowcontrol.com • Email: hflow@haywardnet.com
FLV Series
Simplex Bag Filters
SINGLE LENGTH – 16” GFPP
1-1/4” TO 2” PIPE SIZES

KEY FEATURES
• Platinum Glass Filled Polypropylene
• One-Piece Injection Molded Construction
• Hand Removable, Ergonomic Cover with Liquid Displacing Dome
• Vent Valve Included On Cover
• Rated up to 100 GPM
• True Union Socket, Threaded or Flanged End Connections
• In-Line or Loop Flow Configurations
• Hinged Basket for Easy Bag Removal
• Drain Port at Bottom
• Integral Mounting Base

BENEFITS
• Easier Installations Due to True Union Connectivity
• Simplified Bag Removal From Hinged Basket
• Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

TYPICAL APPLICATIONS
• Water and Wastewater Treatment
• Chemical Processing
• Food and Beverage
• Metal Plating
• Aquatic and Animal Life Support Systems
• Water/Theme Parks
• Aquaculture

OPTIONS
• Gauge with Gauge Guard
• Pressure Differential Gauge and Switch
• EPDM O-Ring Seals
• Cartridge Adapters

MATERIALS
• GFPP per ASTM D4101, Cell Class 85580
• FPM Standard O-Ring Seals

TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>SIZE / BODY MATERIAL</th>
<th>END CONNECTIONS</th>
<th>PIPING SIZES</th>
<th>O-RING SEALS</th>
<th>PRESSURE RATING (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Length 7” x 16” GFPP</td>
<td>GFPP (Threaded and Flanged)</td>
<td>1-1/4” – 2” rated @ 100 GPM*</td>
<td>FPM or EPDM</td>
<td>150 PSI @ 70°F Non-Shock (10 Bar / 1 MPa @ 21°C)</td>
</tr>
<tr>
<td>GFPP (Threaded and Flanged)</td>
<td>PVC (Socket and Flanged)</td>
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<td></td>
</tr>
</tbody>
</table>

* May be Limited by Pipe Size or Bag Choice
FLV Series Simplex Bag Filters
SINGLE LENGTH – 16” GFPP
1-1/4” TO 2” PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*
1. Vent Valve (Included)
2. Cover
3. Filter Vessel Body
4. End Connector
5. Assembly Nut
6. Alternate 2” NPT Ports
7. Integrally Molded Mounting Pad

* See page 8 for a complete Parts List

DIMENSIONS – INCHES / MILLIMETERS

<table>
<thead>
<tr>
<th>VESSELSIZE</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H*</th>
<th>J</th>
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<tbody>
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<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
<td>in / mm</td>
</tr>
<tr>
<td>1-1/4” / 32</td>
<td>8.86 / 225</td>
<td>4.50 / 114</td>
<td>31.83 / 808</td>
<td>23.00 / 584</td>
<td>7.60 / 193</td>
<td>15.25 / 387</td>
<td>20.93 / 532</td>
</tr>
<tr>
<td>1-1/2” / 40</td>
<td>8.86 / 225</td>
<td>4.50 / 114</td>
<td>31.83 / 808</td>
<td>23.00 / 584</td>
<td>7.60 / 193</td>
<td>15.25 / 387</td>
<td>20.93 / 532</td>
</tr>
<tr>
<td>2” / 50</td>
<td>8.91 / 226</td>
<td>4.50 / 114</td>
<td>31.83 / 808</td>
<td>23.00 / 584</td>
<td>7.60 / 193</td>
<td>15.25 / 387</td>
<td>20.93 / 532</td>
</tr>
</tbody>
</table>

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

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE

SPECIFICATIONS

Material of Construction: GFPP
Inlet Connections: GFPP (Threaded and Flanged)
PVC (Socket and Flanged)
CPVC (Socket and Flanged)
Outlet Connections: GFPP (Threaded and Flanged)
PVC (Socket and Flanged)
CPVC (Socket and Flanged)
Bag Size: Bag Size #1: 7” x 16”
Pressure Rating: 150 PSI @ 70°F Non-Shock
O-Ring Seals: FPM or EPDM
Bag Ratings: 1, 5, 10, 25, 50, 100, 150, 200, 400, 600 and 800 Microns
Flow Rate: 100 GPM (May be Limited by Pipe Size or Bag Choice)
Weight: 47.8 lbs.

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Visit us at: www.haywardflowcontrol.com • Email: hflow@haywardnet.com
**FLV Series Duplex Bag Filters**

**DOUBLE LENGTH – 32” GFPP**  
**2” TO 4” PIPE SIZES**

**KEY FEATURES**
- Platinum Glass Filled Polypropylene  
- One-Piece Injection Molded Construction  
- Hand Removable, Ergonomic Cover with Liquid Displacing Dome  
- Vent Valve Included on Cover  
- Rated up to 100 GPM – 2”  
- Rated up to 150 GPM – 3” to 4”  
- True Union Socket, Threaded or Flanged End Connections  
- In-Line or Loop Flow Configurations  
- Hinged Basket for Easy Bag Removal  
- Drain Port at Bottom  
- Integral Mounting Base

**BENEFITS**
- Easier Installations Due to True Union Connectivity  
- Simplified Bag Removal from Hinged Basket  
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

**TYPICAL APPLICATIONS**
- Water and Wastewater Treatment  
- Chemical Processing  
- Food and Beverage  
- Metal Plating  
- Aquatic and Animal Life Support Systems  
- Water/Theme Parks  
- Aquaculture

**OPTIONS**
- Gauge with Gauge Guard  
- Pressure Differential Gauge and Switch  
- EPDM O-Ring Seals  
- Cartridge Adapters

**MATERIALS**
- CPVC per ASTM D1784, Cell Class 23447  
- GFPP per ASTM D4101, Cell Class 85580  
- FPM Standard O-Ring Seals

---

**TECHNICAL INFORMATION**

**SELECTED FILTERS**

<table>
<thead>
<tr>
<th>SIZE / BODY MATERIAL</th>
<th>END CONNECTIONS</th>
<th>PIPE SIZES</th>
<th>O-RING SEALS</th>
<th>PRESSURE RATING (BAR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Length 7” x 32” GFPP</td>
<td>CPVC (Socket, Threaded or Flanged)</td>
<td>2” rated @ 100 GPM*</td>
<td>FPM or EPDM</td>
<td>150 PSI @ 70°F Non-Shock (10 Bar / 1 MPa @ 21°C)</td>
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<tr>
<td>GFPP (Threaded and Flanged)</td>
<td>3” – 4” rated @ 150 GPM*</td>
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</tr>
</tbody>
</table>

* May be limited by Pipe Size or Bag Choice
FLV Series Duplex Bag Filters
DOUBLE LENGTH – 32” GFPP
2” TO 4” PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*
1. Vent Valve (Included)
2. Cover
3. Filter Vessel Body
4. End Connector
5. Assembly Nut
6. Alternate 2” NPT Ports
7. Integrally Molded Mounting Pad

* See page 8 for a complete Parts List

DIMENSIONS – INCHES / MILLIMETERS

<table>
<thead>
<tr>
<th>VESSEL SIZE</th>
<th>A in / mm</th>
<th>B in / mm</th>
<th>C in / mm</th>
<th>D in / mm</th>
<th>E in / mm</th>
<th>F in / mm</th>
<th>G in / mm</th>
<th>H* in / mm</th>
<th>J in / mm</th>
<th>K in / mm</th>
<th>L in / mm</th>
<th>M in / mm</th>
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<tbody>
<tr>
<td>2” / 50</td>
<td>6.00 / 152</td>
<td>7.77 / 197</td>
<td>47.44 / 1205</td>
<td>4.50 / 114</td>
<td>47.83 / 1215</td>
<td>39.00 / 991</td>
<td>41.70 / 1059</td>
<td>31.25 / 794</td>
<td>20.93 / 532</td>
<td>16.75 / 425</td>
<td>17.65 / 449</td>
<td>2.62 / 67</td>
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</tbody>
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Dimensions are subject to change without notice – consult factory for installation information

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE

<table>
<thead>
<tr>
<th>TEMPERATURE °F</th>
<th>WORKING PRESSURE (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>160</td>
</tr>
<tr>
<td>50</td>
<td>150</td>
</tr>
<tr>
<td>100</td>
<td>140</td>
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<tr>
<td>150</td>
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<tr>
<td>250</td>
<td>110</td>
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<tr>
<td>300</td>
<td>100</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TEMPERATURE °F</th>
<th>WORKING PRESSURE (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>GFPP</td>
</tr>
<tr>
<td>50</td>
<td>CPVC</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Material of Construction: GFPP

Inlet Connections: GFPP (Threaded and Flanged)
CPVC (Socket, Threaded or Flanged)

Outlet Connections: GFPP (Threaded and Flanged)
CPVC (Socket, Threaded or Flanged)

Bag Size: Bag Size #2: 7” x 32”

Pressure Rating: 150 PSI @ 70°F Non-Shock

O-Ring Seals: FPM or EPDM

Bag Ratings: 1, 5, 10, 25, 50, 100, 150, 200, 400, 600 and 800 Microns

Maximum Flow Rates: 100 GPM – 2” (May be Limited by Pipe Size or Bag Choice)
150 GPM – 3” to 4” (May be Limited by Pipe Size or Bag Choice)

Mounting Base: Fiberglass

Hardware: Stainless Steel

Weight: up to 2” – 132.0 lbs. / 3” to 4” – 145.0 lbs.
KEY FEATURES
- Platinum Glass Filled Polypropylene
- One-Piece Injection Molded Construction
- Hand Removable, Ergonomic Cover with Liquid Displacing Dome
- Vent Valve Included on Cover
- Rated up to 100 GPM
- True Union Socket, Threaded or Flanged End Connections
- In-Line or Loop Flow Configurations
- Hinged Basket for Easy Bag Removal
- Drain Port at Bottom
- Integral Mounting Base

BENEFITS
- Easier Installations Due to True Union Connectivity
- Simplified Bag Removal from Hinged Basket
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

TYPICAL APPLICATIONS
- Water and Wastewater Treatment
- Chemical Processing
- Food and Beverage
- Metal Plating
- Aquatic and Animal Life Support Systems
- Water/Theme Parks
- Aquaculture

OPTIONS
- Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM O-Ring Seals
- Cartridge Adapters

MATERIALS
- CPVC per ASTM D1784, Cell Class 23447
- GFPP per ASTM D4101, Cell Class 85580
- FPM Standard O-Ring Seals
FLV Series Duplex Bag Filters
SINGLE LENGTH – 16” GFPP
2” PIPE SIZE

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*
1. Vent Valve (Included)
2. Cover
3. Filter Vessel Body
4. End Connector
5. Assembly Nut
6. Alternate 2” NPT Ports
7. Integrally Molded Mounting Pad

* See page 8 for a complete Parts List

PIPING PARTS LIST
1. Handle
2. Hayward® LA Series Three-Way Lateral Valve
3. Spool Assembly (Each Side)
4. Stem Extension Pipe

DIMENSIONS – INCHES / MILLIMETERS

<table>
<thead>
<tr>
<th>VESSEL SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H*</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>in / DN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2” / 50</td>
<td>6.00/152</td>
<td>7.77/197</td>
<td>47.44/1203</td>
<td>4.50/114</td>
<td>31.83/808</td>
<td>23.00/584</td>
<td>41.70/1059</td>
<td>15.25/387</td>
<td>20.93/532</td>
<td>16.75/425</td>
<td>48.00/1219</td>
<td>2.62/67</td>
</tr>
</tbody>
</table>

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

OPERATING TEMPERATURE / PRESSURE

<table>
<thead>
<tr>
<th>TEMPERATURE °F</th>
<th>WORKING PRESSURE (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>160</td>
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<tr>
<td>80</td>
<td>140</td>
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<tr>
<td>100</td>
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<td>120</td>
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<tr>
<td>140</td>
<td>80</td>
</tr>
<tr>
<td>160</td>
<td>60</td>
</tr>
<tr>
<td>180</td>
<td>40</td>
</tr>
</tbody>
</table>

| Material of Construction: | GFPP |

| Inlet Connections: | GFPP (Threaded or Flanged) |
|                   | CPVC (Socket, Threaded and Flanged) |

| Outlet Connections: | GFPP (Threaded and Flanged) |
|                    | CPVC (Socket, Threaded or Flanged) |

| Bag Size: | Bag Size #1: 7” x 16” |

| Pressure Rating: | 150 PSI @ 70°F Non-Shock |

| O-Ring Seals: | FPM or EPDM |

| Bag Ratings: | 1, 5, 10, 25, 50, 100, 150, 200, 400, 600 and 800 Microns |

| Maximum Flow Rate: | 100 GPM (May be Limited by Pipe Size or Bag Choice) |

| Mounting Base: | Fiberglass |

| Hardware: | Stainless Steel |

| Weight: | 100.0 lbs. |

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Contact Hayward Flow Control with questions: 1-888-429-4635 • Fax: 1-888-778-8410 • One Hayward Industrial Drive • Clemmons, NC 27012 • USA
Visit us at: www.haywardflowcontrol.com • Email: hflow@haywardnet.com
Needle Felt and Monofilament Mesh Filter Bags
HEAVY-DUTY POLYPROPYLENE, POLYESTER AND NYLON FILTER BAGS

KEY FEATURES
- All Bag Materials Silicone-Free
- Size 1 – Single Length 7" x 16"
- Size 2 – Double Length 7" x 32"
- Sewn or Welded Construction
- Size 1 – Maximum Flow Rate 90 GPM
- Size 2 – Maximum Flow Rate 180 GPM
- Sewn Bags Have Sewn-In Cloth Handles
- Flanged Bags Have Molded-In Handles

BENEFITS
- Easy Change-Out Reduces Down Time
- Compact, for Easy Disposal
- Versatile Micron Ratings Will Accommodate Most Applications

TYPICAL APPLICATIONS
- Water and Wastewater Treatment
- Chemical Processing
- Food and Beverage
- Metal Plating
- Aquatic and Animal Life Support Systems
- Water/Theme Parks
- Aquaculture

MICRON RATINGS
- 1 Micron (Material – Polypropylene and Polyester Needle Felt)
- 5 Microns (Material – Polypropylene and Polyester Needle Felt)
- 10 Microns (Material – Polypropylene and Polyester Needle Felt)
- 25 Microns (Material – Polypropylene and Polyester Needle Felt)
- 50 Microns (Material – Polypropylene and Polyester Needle Felt)
- 100 Microns (Material – Polypropylene and Polyester Needle Felt)
- 150 Microns (Material – Polypropylene and Nylon Monofilament Mesh)
- 200 Microns (Material – Polypropylene and Polyester Needle Felt)
- 400 Microns (Material – Polypropylene and Nylon Monofilament Mesh)
- 600 Microns (Material – Polypropylene and Nylon Monofilament Mesh)
- 800 Microns (Material – Polypropylene and Nylon Monofilament Mesh)

MATERIALS
- Polypropylene Needle Felt Rated up to 200°F
- Polyester Needle Felt Rated up to 300°F
- Polypropylene Monofilament Mesh Rated up to 200°F
- Nylon Monofilament Mesh Rated up to 325°F
Felt and Mesh Filter Bags, CONTINUED

POLYPROPYLENE AND POLYESTER NEEDLED FELT FILTER BAGS:

Felt material offers particle filtration by a depth process. Particles larger than the felt openings are trapped against the surface as particles that are smaller are forced into the material and trapped by the fibrous web. This three-dimensional media filtration is effective at removing both solid and gelatinous particles and is available in silicone-free polypropylene and polyester materials. Bags are available in 1 to 100 and 200 microns.

KEY FEATURES
- Needled Felt Structure
- Silicone-Free Material
- Suitable to Lower Viscosity Fluid
- Stable Filtration with High-Flow Velocity
- No Chemical or Fiber Release
- Temperature for Polypropylene: up to 200°F
- Temperature for Polyester: up to 300°F
- Chemical Resistance: Water, Aromatics, Weak Acids, Alkali

SPECIFIC APPLICATIONS
- Prefiltration in Water Treatment
- Amine Filtration in Petroleum Industries
- Electrophoretic Paint Filtration in Automotive Industries
- Syrup Filtration
- Raw Medicine Filtration
- Recycled Water Filtration in Electronics Industries

POLYPROPYLENE AND NYLON MONOFILAMENT MESH FILTER BAGS:

Monofilament mesh offers particle filtration on the surface of a single interwoven fiber. All the holes are uniform providing the same filtration from top to bottom and are fusion welded for strength. Filtration is available at 150 microns and 400 to 800 microns.

KEY FEATURES
- Monofilament Mesh Structure
- Silicone-Free Material
- Fixed Aperture
- Good Stretch-Proof Performance
- Suitable to Intercept Rigid Impurity and High Viscosity Fluid
- Easy to Clean
- Temperature for Polypropylene: up to 200°F
- Temperature for Nylon: up to 325°F
- Chemical Resistance: Water, Aromatics, Aliphatic, Alkali

SPECIFIC APPLICATIONS
- Prefiltration in Metallurgy Industries
- Degreasing in Automotive Industries
- Raw Water Filtration in Water Treatment Industries
- Coolant Filtration in Paint Industries
- Cutting Fluid Filtration in Machine Industries
- Coarse Filtration in Chemical Industries
- Recycled Water Filtration in Paper Mills
SINGLE AND DOUBLE LENGTH
All bags are made with silicone-free material. Bags are made in two lengths. Type 1 single length is 7” x 16” and Type 2 double length is 7” x 32”. Both industry standard bag sizes fit Hayward’s single or double length filter vessel.

SEWN CONSTRUCTION
A sewn bag has the strength of a mechanically secure, sewn seam. These bags have two sewn lines to make sure that certain particles do not pass through the filter bag. These bags are made from media that is silicone free and are sewn with silicone free thread so that the filtrate is not contaminated.

WELDED CONSTRUCTION
Welded construction filter bags have the fabric fused together to form the bag and secure the sealing ring. Modern fabric welding technology provides a strong seal that won’t leak or come apart in the flow.

SEWN-IN BAG RING
Another construction consideration is the type of sealing ring. This is a ring at the opening of the bag that helps seal it to the housing. It can be made of plastic or metal. The ring material is important not only for chemical compatibility, but also for disposal purposes. If the bag is going to be disposed of by incineration, it’s important that the ring be plastic, and not metal. Hayward bags are made with a sewn-in PP ring.

PP FLANGE RING
Consider the ring material of the bag when looking at chemical compatibility of the application. Hayward flanged bags have a PP flange ring.

PP FLANGE HANDLES
Flanged bags have PP handles at the top to make removal easier. Other bags have a sewn-in cloth handle for removal.
## How to Order Filter Bags

### HOW TO SELECT A PART NUMBER

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>MICRON RATING</th>
<th>FINISH</th>
<th>BAG SIZE</th>
<th>BAG STYLE*</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene Needle Felt Glazed</td>
<td>PO 1 Micron</td>
<td>Needle Felt Glazed</td>
<td>G</td>
<td>16&quot;</td>
<td>PP Ring PR</td>
</tr>
<tr>
<td>Polypropylene Monofilament Mesh</td>
<td>P 5 Microns</td>
<td>Needle Felt Singed</td>
<td>S</td>
<td>32&quot;</td>
<td>PP Flange PF</td>
</tr>
<tr>
<td>Polyester Needle Felt Singed</td>
<td>PE 10 Microns</td>
<td>Monofilament Mesh</td>
<td>M</td>
<td>20&quot;</td>
<td>Welded WF</td>
</tr>
<tr>
<td>Nylon Monofilament Mesh</td>
<td>NMO 25 Microns</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>50 Microns</td>
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</tr>
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<td></td>
<td>200 Microns</td>
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<tr>
<td></td>
<td>400 Microns</td>
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<td></td>
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<td>600 Microns</td>
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<td></td>
<td>800 Microns</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

To find your part number, please select your Material, Micron Rating, Finish, etc., and place the corresponding identifier (PO, 001, G, etc.) in the boxes below.

**EXAMPLE** PO 100 G 1 PR SH

* Carbon Steel and Stainless Steel rings are available upon request – consult factory for information

### STANDARD FIBER AND MICRON RATINGS

<table>
<thead>
<tr>
<th>FIBER CONSTRUCTION</th>
<th>MATERIAL</th>
<th>AVAILABLE MICRON RATINGS</th>
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<tr>
<td>Needle Felts</td>
<td>Polypropylene</td>
<td>1, 5, 10, 25, 50, 100, 150, 200, 400, 600, 800</td>
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<td></td>
<td>Polyester</td>
<td>1, 5, 10, 25, 50, 100, 150, 200, 400, 600, 800</td>
</tr>
<tr>
<td>Monofilament Meshes</td>
<td>Polypropylene</td>
<td>1, 5, 10, 25, 50, 100, 150, 200, 400, 600, 800</td>
</tr>
<tr>
<td></td>
<td>Nylon</td>
<td>1, 5, 10, 25, 50, 100, 150, 200, 400, 600, 800</td>
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</tbody>
</table>

### COMPATIBILITY AND TEMPERATURE LIMITS

<table>
<thead>
<tr>
<th>FIBER</th>
<th>Compatible with</th>
<th>Organic Solvent</th>
<th>Animal, Vegetable and Petro Oils</th>
<th>Microorganisms</th>
<th>Alkalis</th>
<th>Organic Agents</th>
<th>Oxidizing Agents</th>
<th>Mineral Acids</th>
<th>Temperature Limits (Max °F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>polyester</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>300</td>
</tr>
<tr>
<td>polypropylene</td>
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<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>200</td>
</tr>
<tr>
<td>nylon</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>325</td>
</tr>
</tbody>
</table>

A Excellent  B Good  C Fair  D Poor
1. CHECK THE TEMPERATURE AND PRESSURE RATING OF A VESSEL
   To make sure that the temperature/pressure of the application falls within the OK range, see the chart on each individual catalog page or check the chart above for FLV Series Filter Vessel.

2. DETERMINE THE FLOW RATE
   In GPM, of the system into which the bag filter is to be installed. Hayward® single and double length bag filters work with flows of up to 150 GPM. If the system’s flow rate is greater, consider using two or more filters manifolled together in parallel. For example, if the system flow rate is 150 GPM or higher, using two manifolled filters would reduce the flow to a manageable 75 GPM through each. Constantly running the flow through the vessels at their maximum rating limit is not recommended.

3. SELECT THE BAG
   Hayward bags are available from 1 to 800 microns. The bags are made from several types of materials and are either of a sewn or welded construction. All bags are sold in Carton Quantities. A single length bag has a surface area of 2.0 sq ft and a double length of 4.1 sq ft.

4. CONSIDER STARTUP PRESSURE LOSS
   Bag filters are typically sized so that there is a 2 PSI or less pressure loss across them with a clean bag installed. Keep in mind that this is just a guide. The time between bag change outs for a double length filter is more than twice that of a single length filter in the same application.
5. CALCULATE STARTUP PRESSURE LOSS

To figure the total pressure loss across the filter with a clean bag requires making two pressure loss calculations and adding them together:

First: Use the system flow rate and Chart 1 to determine the loss across the filter without a bag (single and double length filter vessels have virtually the same pressure loss without a bag). Example: A flow rate of 30 GPM results in a 0.4 PSI pressure loss. If the process media is water or has a viscosity less than 200 CPS, that's it. If the viscosity is greater, select the correction factor that matches the process media viscosity in CPS units from Table Number One. Multiply the pressure drop by this factor.

Second: Single and double length filter bags have different pressure losses. Use Chart 2A and 2B to determine the pressure loss per square foot of bag surface. Example: with a system flow rate of 30 GPM, a 5 or 10 micron bag would have a 0.2 PSI loss per square foot. This loss is divided by 2.0 for a single length bag or 4.1 for a double length bag. These factors are the respective surface areas of the bags in square feet. The loss for a single bag would be 0.1 PSI (0.2 ÷ 2.0) and 0.05 for a double length bag (0.2 ÷ 4.1). For fluids with viscosities other than water, select the correction factor from Table 2 and multiply the pressure drop by it. Example: If the fluid viscosity were 800 CPS, the pressure loss for a single length bag would be 5.0 (0.1 x 50.0).

Last: Add the pressure loss of the vessel and the bag together to get the pressure loss across the filter with the bag installed.

### Table 1 – Vessel Viscosity Correction

<table>
<thead>
<tr>
<th>VISCOSITY IN CPS</th>
<th>200</th>
<th>400</th>
<th>600</th>
<th>800</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORRECTION FACTOR</td>
<td>1.10</td>
<td>1.20</td>
<td>1.40</td>
<td>1.50</td>
</tr>
</tbody>
</table>

### Table 2 – Bag Viscosity Correction

<table>
<thead>
<tr>
<th>VISCOSITY IN CPS</th>
<th>Water</th>
<th>1</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>400</th>
<th>600</th>
<th>800</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORRECTION FACTOR</td>
<td>1.00</td>
<td>4.50</td>
<td>8.50</td>
<td>16.60</td>
<td>27.70</td>
<td>38.90</td>
<td>50.00</td>
<td></td>
</tr>
</tbody>
</table>

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Flow of Water Through Schedule 80 Plastic Pipe

<table>
<thead>
<tr>
<th>DISCHARGE (Gallons/Minute)</th>
<th>VELOCITY In Schedule 80 plastic pipe for water @ 60°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>0.824</td>
</tr>
<tr>
<td>0.3</td>
<td>1.237</td>
</tr>
<tr>
<td>0.4</td>
<td>1.646</td>
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<tr>
<td>0.5</td>
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<tr>
<td>0.6</td>
<td>2.476</td>
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<tr>
<td>0.8</td>
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<td>16.502</td>
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<td>5</td>
<td>20.625</td>
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<td>8</td>
<td>32.998</td>
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<tr>
<td>10</td>
<td>41.297</td>
</tr>
</tbody>
</table>

The following wave surge constants may be used to quickly calculate pressure rise due to water hammer where: “C” = the wave surge constant from the table below multiplied by “V” the line velocity in feet per second. The resultant number is then added to the line pressure to determine the resulting wave surge (Water Hammer Effect).
For more than 50 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 Flow Control now introduces the patent-pending FLV Series Filter, the most advanced all thermoplastic bag filter built today. Built in our North Carolina facility and 100% made in the USA, the FLV Series Filter features a one piece injection molded Platinum GFPP body to accommodate bag sizes 1 and 2. Unlike traditional metal and plastic filters, the FLV Series Filter’s true union design allows for multiple end connections to be used in sizes 1-1/4” to 4” to give the end connection that best meets the needs of your piping system. Even more revolutionary is our new hinged basket design to allow for quick and easy removal of extremely heavy bags in the most demanding applications. The FLV Series Filter can be ordered as a simplex, duplex, triplex or quadplex unit.

And don’t forget Hayward’s industry leading thermoplastic Basket and Y-Strainers to protect pipeline system components and maintenance facilities from dirt and debris while allowing process media to flow freely. Simplex and duplex strainers are manufactured in PVC, CPVC, GFPP and clear Eastar®, and are available with thermoplastic, stainless steel or alloy, perforated and mesh lined baskets in a wide range of sizes. Our Y-Strainers are offered in PVC, clear PVC or CPVC, with FPM or EPDM seals.

All Hayward Flow Control products carry an industry-leading, full two-year warranty. When we build our products, we strive for the highest quality possible for use in a wide range of demanding applications. Hayward Flow Control is an ISO 9001:2008 certified manufacturer.