

Australian Agents for Hayward Flow Control

FLV Series Bag and Cartridge Filter Product Guide

www.monarchindustrial.com.au www.monarchasiapacific.com.au

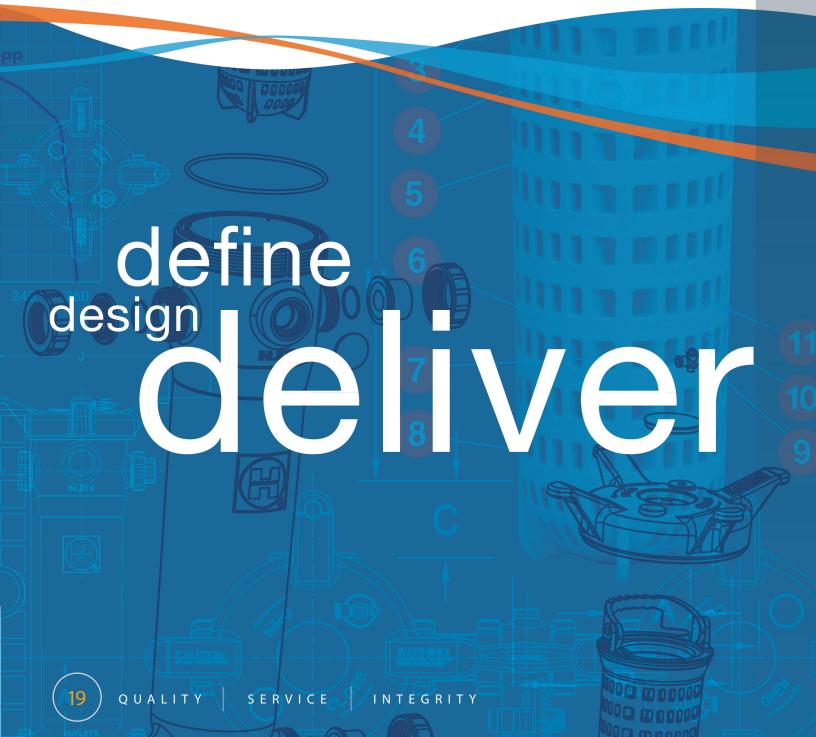


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Hayward® Flow Control - Define, Design, Deliver...

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.

Unlike traditional metal and plastic filters, Hayward's patent pending GFPP FLV Series Bag Filter features a one-piece injection molded thermoplastic glass filled polypropylene body with true union end connections, ergonomic cover design with liquid displacing dome, vent valve and drain plug. Available in simplex through quadplex assembly, the FLV Series can accommodate filter bags, a single 7" cartridge or five 2-1/2" cartridges. The FLV Series also features multiple end connection options including threaded, socket, flanged and socket fusion ends

Hayward's industry leading thermoplastic Basket and Y-Strainers 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, perf 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.

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.







HAYWARD



DOUBLE LENGTH, DUPLEX



SINGLE LENGTH, DUPLEX

FLV Series Bag and Cartridge Filters -Overview

ALL THERMOPLASTIC, GLASS FILLED POLYPROPYLENE INJECTION MOLDED CONSTRUCTION, FOR SUPERIOR CORROSION RESISTANCE PERFORMANCE



SINGLE LENGTH, SIMPLEX



DOUBLE LENGTH, SIMPLEX

HOW TO S	ELEC	CT A PA	RT N	NUMBE	R												
SERIES	PREFIX	MATER	IAL	VESS SIZI		STYLE	Ē	PIPE CONNEC SIZE	TION	TRUE UN CONNEC TYPE	TION	ENI CONNE MATEI	CTOR	O-RIN	GS	BASK	ŒΤ
Vessel with Basket – No Bag	FLV	Platinum GFPP	4P	16"	1	Simplex	S	1-1/4"	12	Threaded	Т	PVC	1	FPM	V	Solid	S
Vessel – Cartridge Ready	CFLV			32"	2	Duplex	D	1-1/2"	15	Socket	S	CPVC	2	EPDM	Е	Hinged	L
						Triplex	T	2"	20	Flanged	F	PP	3				
						Quadplex	Q	2-1/2"*	25	Female Thread	D	GFPP	4				
								3"*	30	BSPT	В						
								4"*	40								
								32mm	3M								
								40mm	4M								
								50mm	5M								
To find your part nun	nber, pleas	e select your S	Series,					63mm*	6M								
Material, Color, etc., identifier (FLV, 4, P, e	and place tc.) in the l	the correspond boxes below.	ding					80mm*	8M								
								100mm*	1M								
EXAMPLE	FLV		4P		1		S		20		T		4		٧		S

FLV Series Filters, *overview*





FLV Series Filters, KEY FEATURES

COVER-

- Ergonomic Handles Raised to Protect the Vent Valve
- Integral Pressure Relief Valve Threads in Cover
- Vent Valve Provided with Every Filter
- 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 Filter
- 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 Filter
- 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 Filter Label Leads Directly to Online IOM







FLV Series Filters, FEATURES - CONTINUED

BASKET (BAG FILTER ONLY)

- Heavy Duty Solid Basket Standard
- Optional Hinged Basket can be Fully Opened for Bag Replacement
- Optional Stainless Steel Basket available for High Cv and High Differential Pressure
- Ergonomically Molded Basket Lockdown Handle
- Basket Lockdown Handle and Ring Secures Bag Within Filter
- Vertical Flute Slots in GFPP Basket Prevent Bag Catching and Allow More Open Flow Area



TRUE UNION END CONNECTIONS

- Allows for Various Sizes and Options Which Includes Socket, Threaded, Socket Fusion and Flanged
- Makes Disconnect of Filter 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" / DN32-DN100
- No Direct Threading into the Filter Housing Required



MOUNTING PAD

- Features Same Footprint as Previous Generation
- Stand-Alone Mounting Capabilities
- Slotted for Easy Installation







FLV Series Filters, BAG CARRIER OPTIONS

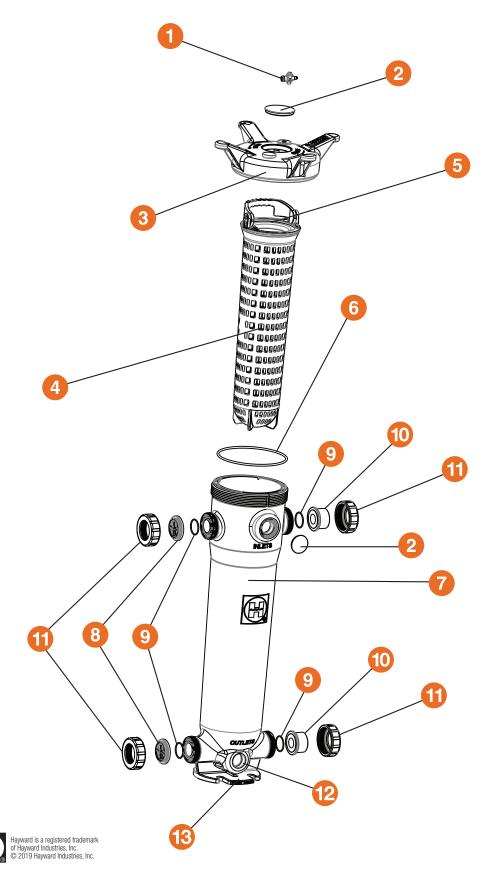


GFPP HEAVY DUTY SOLID BASKET
STANDARD

GFPP HINGED DESIGN
OPTIONAL

316 STAINLESS STEEL OPTIONAL

FLV Series Filters, EXPLODED VIEW



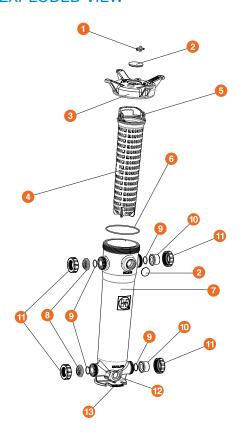
PARTS LIST

- 1. Vent Valve (Included)
- 2. Hayward Bezel
- 3. Cover
- 4. Heavy Duty Solid Basket
- 5. Bag Retaining Ring
- 6. Cover O-Ring
- 7. Filter Body
- 8. End Cap
- 9. End Connector O-Ring
- 10. End Connector
- 11. Assembly Nut
- 12. Alternate 2" NPT Ports (Optional)
- 13. Integrally Molded Mounting Pad

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EXPLODED VIEW



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
- Heavy Duty Solid Basket
- Drain Port at Bottom
- Integral Mounting Base
- Easier Installations Due to True Union Connectivity
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

OPTIONS

- · Gauge with Gauge Guard
- · Pressure Differential Gauge and Switch
- EPDM Seals
- Cartridge Adapters
- Hinged Basket
- 316 Stainless Steel Basket

MATERIALS

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

TECHNICAL INFORMATION

SELECTION CHART

SIZE*	MATERIAL	END CONNECTIONS	PIPING SIZES	SEALS	FLOW RATE	PRESSURE RATING
Double Length 7" x 32"	GFPP	GFPP (Threaded and Flanged), PVC/CPVC (Socket and PP Socket Fusion)	1-1/4" – 2" (DN32–DN50)	FPM or EPDM	100 GPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

^{*} PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21 PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.

"Patented" Pat. No.: 9,630,127

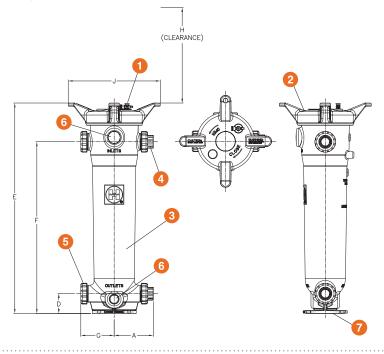
FLV Series Simplex Bag Filters

DOUBLE LENGTH – 32" GFPP 1-1/4" TO 2" PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*

- 1. Vent Valve (Included)
- 2. Cover
- 3. Filter Body
- 4. End Connector
- 5. Assembly Nut
- 6. Alternate 2" NPT Ports
- 7. Integrally Molded Mounting Pad

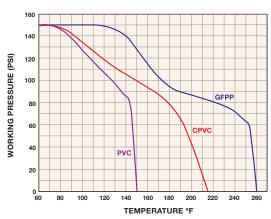


DIMENSIONS

FILTER SIZE in / DN	A in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H* in / mm	J in / mm
1-1/4" / 32	8.86 / 225	4.50 / 114	47.83 / 1215	39.00 / 991	7.60 / 193	31.25 / 794	20.93 / 532
1-1/2" / 40	8.86 / 225	4.50 / 114	47.83 / 1215	39.00 / 991	7.60 / 193	31.25 / 794	20.93 / 532
2" / 50	8.91 / 226	4.50 / 114	47.83 / 1215	39.00 / 991	7.60 / 193	31.25 / 794	20.93 / 532

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE



Hayward recommends that you monitor your pressure differential with a differential gauge or pressure gauges

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SPECIFICATIONS

Material of Construction: GFPP

Inlet Connections: GFPP (Threaded or Flanged)

PVC (Socket) CPVC (Socket)

Outlet Connections: GFPP (Threaded or Flanged)

PVC (Socket) CPVC (Socket)

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

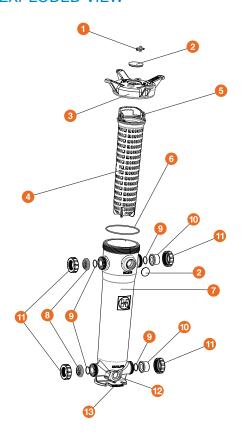
Flow Rate: 100 GPM (May be Limited by Pipe Size or Bag Choice)

Weight: 66.4 lbs.

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EXPLODED VIEW



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
- Heavy Duty Solid Basket
- · Drain Port at Bottom
- Integral Mounting Base
- Easier Installations Due to True Union Connectivity
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

OPTIONS

- · Gauge with Gauge Guard
- · Pressure Differential Gauge and Switch
- EPDM Seals
- Cartridge Adapters
- · Hinged Basket
- 316 Stainless Steel Basket

MATERIALS

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

TECHNICAL INFORMATION

SELE	CHON	JHART				
SIZE*	MATERIAL	END CONNECTIONS	PIPING SIZES	SEALS	FLOW RATE	PRESSURE RATING
Double Length 7" x 32"	GFPP	GFPP (Threaded and Flanged), PVC/CPVC (Socket and PP Socket Fusion)	2-1/2" - 4" (DN65-DN100)	FPM or EPDM	150 GPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.

"Patented" Pat. No.: 9,630,127

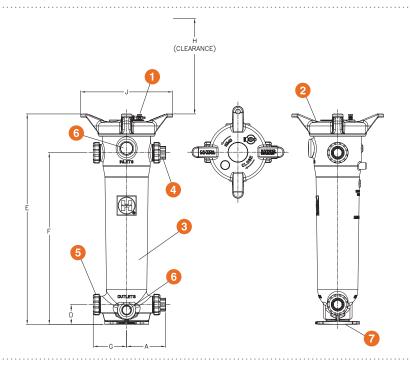
FLV Series Simplex Bag Filters

DOUBLE LENGTH – 32" GFPP 2-1/2" TO 4" PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*

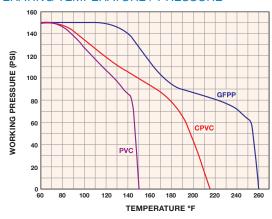
- 1. Vent Valve (Included)
- 2. Cover
- 3. Filter Body
- 4. End Connector
- 5. Assembly Nut
- 6. Alternate 2" NPT Ports
- 7. Integrally Molded Mounting Pad



DIMENSIONS

FILTER SIZE in / DN	A in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H* in / mm	J in / mm
2-1/2" / 65	9.79 / 249	4.50 / 114	47.83 / 1215	39.00 / 991	8.38 / 213	31.25 / 794	20.93 / 532
3" / 80	9.73 / 247	4.50 / 114	47.83 / 1215	39.00 / 991	8.38 / 213	31.25 / 794	20.93 / 532
4" / 100	10.17 / 258	4.50 / 114	47.83 / 1215	39.00 / 991	8.38 / 213	31.25 / 794	20.93 / 532

OPERATING TEMPERATURE / PRESSURE



Hayward recommends that you monitor your pressure differential with a differential gauge or pressure gauges

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SPECIFICATIONS

Material of Construction: GFPP

Inlet Connections: GFPP (Threaded or Flanged)

PVC (Socket) CPVC (Socket)

Outlet Connections: GFPP (Threaded or Flanged)

PVC (Socket) CPVC (Socket)

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)

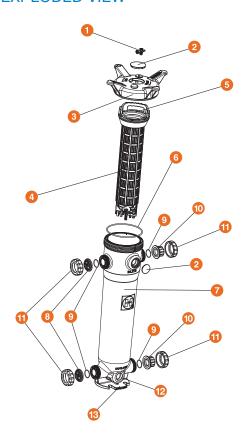
Weight: 71.4 lbs.

^{*} Clearance from top for basket removal

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EXPLODED VIEW



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
- Drain Port at Bottom
- Integral Mounting Base
- Easier Installations Due to True Union Connectivity
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

OPTIONS

- Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM Seals
- Cartridge Adapters
- 316 Stainless Steel Basket

MATERIALS

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

TECHNICAL INFORMATION

SELEC	CTION C	HART				
SIZE*	MATERIAL	END CONNECTIONS	PIPING SIZES	SEALS	FLOW RATE	PRESSURE RATING
Single Length 7" x 16"	GFPP	GFPP (Threaded and Flanged), PVC/CPVC (Socket and PP Socket Fusion)	1-1/4" - 2" (DN32 - DN50)	FPM or EPDM	100 GPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.

"Patented" Pat. No.: 9,630,127

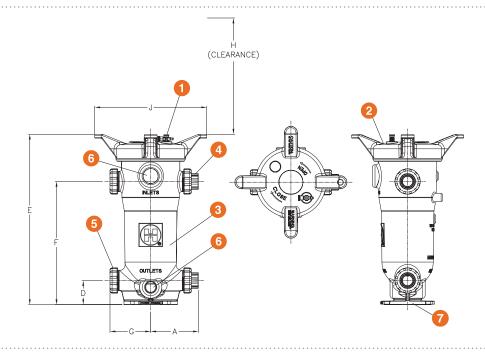
FLV Series Simplex Bag Filters

SINGLE LENGTH – 16" GFPP 1-1/4" TO 2" PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*

- 1. Vent Valve (Included)
- 2. Cover
- 3. Filter Body
- 4. End Connector
- 5. Assembly Nut
- 6. Alternate 2" NPT Ports
- 7. Integrally Molded Mounting Pad



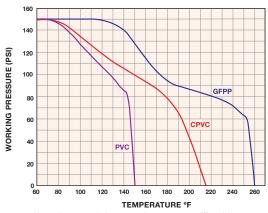
DIMENSIONS

FILTER SIZE in / DN	A in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H* in / mm	J in / mm
1-1/4" / 32	8.86 / 225	4.50 / 114	31.83 / 808	23.00 / 584	7.60 / 193	15.25 / 387	20.93 / 532
1-1/2" / 40	8.86 / 225	4.50 / 114	31.83 / 808	23.00 / 584	7.60 / 193	15.25 / 387	20.93 / 532
2" / 50	8.91 / 226	4.50 / 114	31.83 / 808	23.00 / 584	7.60 / 193	15.25 / 387	20.93 / 532

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

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE



Hayward recommends that you monitor your pressure differential with a differential gauge or pressure gauges

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SPECIFICATIONS

Material of Construction: GFPP

Inlet Connections: GFPP (Threaded or Flanged)

PVC (Socket) CPVC (Socket)

Outlet Connections: GFPP (Threaded or Flanged)

PVC (Socket) CPVC (Socket)

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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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
- Heavy Duty Solid Basket
- Drain Port at Bottom
- Integral Mounting Base
- Easier Installations Due to True Union Connectivity
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

OPTIONS

- · Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM Seals
- · Cartridge Adapters
- · Hinged Basket
- 316 Stainless Steel Basket

MATERIALS

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

TECHNICAL INFORMATION

SELECTION CHART

SIZE*	MATERIAL	END CONNECTIONS	PIPING SIZES	SEALS	FLOW RATE	PRESSURE RATING
Double Length 7" x 32"	GFPP	CPVC (Socket,Threaded or Flanged)	2" (DN50) 2-1/2" - 4" (DN80 - DN100)	FPM or EPDM	100 GPM 150 GPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

^{*} PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.

"Patented" Pat. No.: 9,630,127

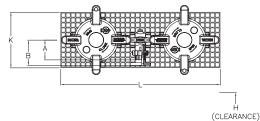
FLV Series Duplex Bag Filters

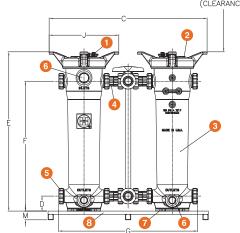
DOUBLE LENGTH – 32" GFPP 2" TO 4" PIPE SIZES

TECHNICAL INFORMATION, CONTINUED

PARTS LIST*

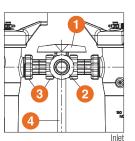
- 1. Vent Valve (Included)
- 2. Cover
- 3. Filter Body
- 4. End Connector
- 5. Assembly Nut
- 6. Alternate 2" NPT Ports
- 7. Integrally Molded Mounting Pad
- 8. Base Plate

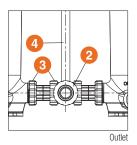




PIPING PARTS LIST

- 1. Handle
- 2. Hayward® LA Series Three-Way Lateral Valve
- 3. Spool Assembly (Each Side)
- 4. Drive Shaft





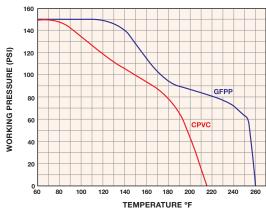
DIMENSIONS

FILTER SIZE	Α	В	С	D	Е	F	G	H*	J	K	L	M	
in / DN	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	in / mm	
2" / 50	6.00 / 152	7.77 / 197	47.44 / 1205	4.50 / 114	47.83 / 1215	39.00 / 991	41.70 / 1059	31.25 / 794	20.93 / 532	16.75 / 425	48.00 / 1219	2.62 / 67	
3" / 80	7.60 / 193	9.85 / 205	55.17 / 1401	4.50 / 114	47.83 / 1215	39.00 / 991	50.99 / 1295	31.25 / 794	20.93 / 532	16.75 / 425	48.00 / 1219	2.62 / 67	
4" / 100	9.33 / 237	11.76 / 299	55.17 / 1401	4.50 / 114	47.83 / 1215	39.00 / 991	50.99 / 1295	31.25 / 794	20.93 / 532	16.75 / 425	48.00 / 1219	2.62 / 67	

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

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE



Hayward recommends that you monitor your pressure differential with a differential gauge or pressure gauges

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SPECIFICATIONS

Material of Construction: GFPP

Inlet Connections: GFPP (Threaded or Flanged)

CPVC (Socket, Threaded or Flanged)

Outlet Connections: GFPP (Threaded or 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" - 136.6 lbs. / 3" to 4" - 149.6 lbs.





FLV Series Duplex Bag Filters

SINGLE LENGTH – 16" GFPP 2" PIPE SIZE

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
- Drain Port at Bottom
- Integral Mounting Base
- Easier Installations Due to True Union Connectivity
- Vertical Flow Flutes in Basket, No Bag Snag and More Flow Area

OPTIONS

- Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM Seals
- Cartridge Adapters
- 316 Stainless Steel Basket

MATERIALS

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

TECHNICAL INFORMATION

SELECTION CHART

SIZE*	MATERIAL	END CONNECTIONS	PIPING SIZES	SEALS	FLOW RATE	PRESSURE RATING
Single Length 7" x 16"	GFPP	CPVC (Socket,Threaded or Flanged)	2" (DN50)	FPM or EPDM	100 GPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

* PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.

"Patented" Pat. No.: 9,630,127

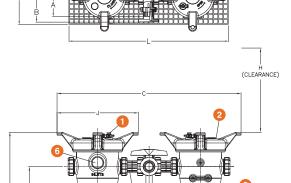
FLV Series Duplex Bag Filters

SINGLE LENGTH – 16" GFPP 2" PIPE SIZE

TECHNICAL INFORMATION, CONTINUED

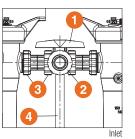
PARTS LIST*

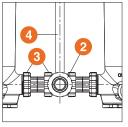
- 1. Vent Valve (Included)
- 2. Cover
- 3. Filter Body
- 4. End Connector
- 5. Assembly Nut
- 6. Alternate 2" NPT Ports
- 7. Integrally Molded Mounting Pad
- 8. Base Plate



PIPING PARTS LIST

- 1. Handle
- 2. Hayward® LA Series Three-Way Lateral Valve
- 3. Spool Assembly (Each Side)
- 4. Drive Shaft





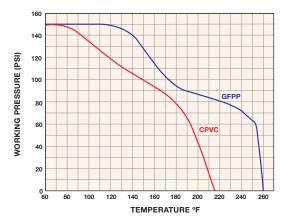
Outlet

DIMENSIONS

FILTER SIZE in / DN		B in / mm	C in / mm	D in / mm	E in / mm		G in / mm	H* in / mm	J in / mm	K in / mm	L in / mm	M in / mm
2" / 50	6.00 / 152	7.77 / 197	47.44 / 1205	4.50 / 114	31.83 / 808	23.00 / 584	41.70 / 1059	15.25 / 387	20.93 / 532	16.75 / 425	48.00 / 1219	2.62 / 67

* Clearance from top for basket removal

OPERATING TEMPERATURE / PRESSURE



Hayward recommends that you monitor your pressure differential with a differential gauge or pressure gauges

SPECIFICATIONS

Material of Construction: GFPP

Inlet Connections: GFPP (Threaded or Flanged)

CPVC (Socket, Threaded or Flanged)

Outlet Connections: GFPP (Threaded or 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.







Needled 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
- Desalinization, RO and Deionized Water Systems
- Chemical Processing
- Food and Beverage
- Aquatic and Animal Life Support Systems
- Metal Finishing and Plating
- Marine and Corrosive Environments

MICRON RATINGS

- 1 Micron (Material Polypropylene and Polyester Needled Felt)
- 5 Microns (Material Polypropylene and Polyester Needled Felt)
- 10 Microns (Material Polypropylene and Polyester Needled Felt)
- 25 Microns (Material Polypropylene and Polyester Needled Felt)
- 50 Microns (Material Polypropylene and Polyester Needled Felt)
- 100 Microns (Material Polypropylene and Polyester Needled Felt)
- 150 Microns (Material Polypropylene and Nylon Monofilament Mesh)
- 200 Microns (Material Polypropylene and Polyester Needled 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

- Glazed Polypropylene Needled Felt Rated up to 200°F
- Singed Polyester Needled Felt Rated up to 300°F
- Polypropylene Monofilament Mesh Rated up to 200°F
- Nylon Monofilament Mesh Rated up to 325°F

Needled Felt and Monofilament Mesh Filter Bags, CONTINUED

How to Order Filter Bags

HOW TO SELECT A PART NUMBER

MATERIAL		MICRON F	RATING	FINIS	Н	BAG S	SIZE	BAG ST	YLE*	OPTIO	NS
Glazed Polypropylene Needled Felt	P0	1 Micron	001	Glazed Needled Felt	G	16"	1	PP Ring	PR	Sewn with Handle	SH
Polypropylene Monofilament Mesh	PM0	5 Microns	005	Singed Needled Felt	S	32"	2	PP Flange	PF	Welded with Flange	WF
Singed Polyester Needled Felt	PE	10 Microns	010	Monofilament Mesh	М						
Nylon Monofilament Mesh	ylon Monofilament Mesh NMO		025								
		50 Microns	050								
		100 Microns	100								
		150 Microns	150								
		200 Microns	200								
		400 Microns	400								
		600 Microns	600								
		800 Microns	800								
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	P0		100		G		1		PR		SH

^{*} Carbon Steel and Stainless Steel rings are available upon request - consult factory for information

STANDARD FIBER AND MICRON RATINGS

FIBER CONSTRUCTION	MATERIAL					VAILABLE						
		1	5	10	25	50	100	150	200	400	600	800
Needled Felts	Polypropylene	•	•	•	•	•	•		•			
	Polyester	•	•	•	•	•	•		•			
Monofilament Meshes	Polypropylene							•		•	•	•
	Nylon							•		•	•	•

COMPATIBILITY AND TEMPERATURE LIMITS

FIBER		COMPATIBLE WITH						
•••••	Organic Solvent	Animal, Vegetable and Petro Oils	Microorganisms	Alkalies	Organic Agents	Oxidizing Agents	Mineral Acids	Temperature Limits (Max °F)
Polyester	А	А	А	В	В	В	В	300
Polypropylene	А	А	А	А	А	С	С	200
Nylon	А	А	А	В	С	D	D	325
	A Excellent		B Good		C Fair		D Poor	





Needled Felt and Monofilament Mesh Filter Bags, CONTINUED

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.



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.

Needled Felt and Monofilament Mesh Filter Bags, CONTINUED

GLAZED* POLYPROPYLENE AND SINGED** POLYESTER NEEDLED FELT FILTER BAGS:

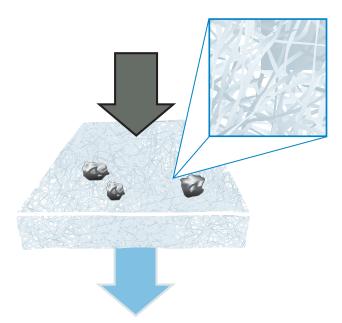
Felt material offers particle filtration by a depth process. Particles larger than the felt openings are trapped against the surface as particles that are smaller are forced into the material and trapped by the fibrous web. This three-dimensional media filtration is effective at removing both solid and 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



*Glazed: This process involves putting the felt media through heated rollers to melt back the loose surface fibers to prevent process fluid contamination

POLYPROPYLENE AND NYLON MONOFILAMENT MESH FILTER BAGS:

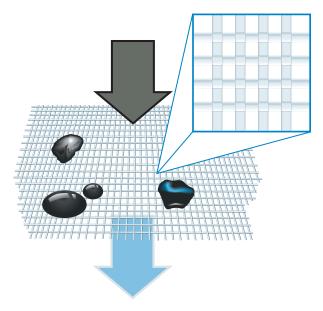
Monofilament mesh offers particle filtration on the surface of a single interwoven fiber. All the holes are uniform providing the same filtration from top to bottom and are fusion welded for strength. Filtration is available at 150 microns and 400 to 800 microns.

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

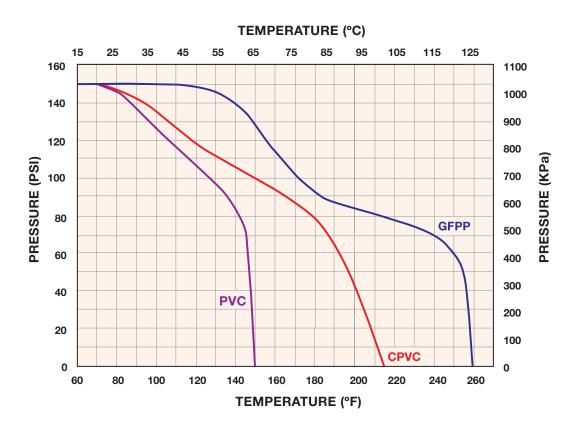




^{**}Singed: This process involves exposing the felt media to an open flame to melt back the loose fibers to prevent process fluid contamination



How to Select a Bag Filter



1. CHECK THE TEMPERATURE AND PRESSURE RATING OF THE MATERIAL OF CONSTRUCTION

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 Filters.

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 manifolded together in parallel. For example, if the system flow rate is 150 GPM or higher, using two manifolded filters would reduce the flow to a manageable 75 GPM through each. Constantly running the flow through the filters 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 START-UP 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.

How to Select a Bag Filter, CONTINUED

5. CALCULATE START-UP 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: The loss across the filter without a bag and the bag loss.

First: Use the system flow rate and Chart 1 to determine the loss across the filter without a bag (single and double length filters 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 1. Multiply the pressure drop by this factor.

Table 1 - Filter Viscosity Correction

VISCOSITY IN CPS	200	400	600	800
CORRECTION FACTOR	1.10	1.20	1.40	1.50

Chart 1 – Filter Pressure Loss

(SS) SSOT BENDESSEL

1 1 10 100 100

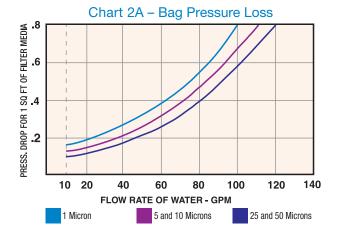
FLOW (GPM)

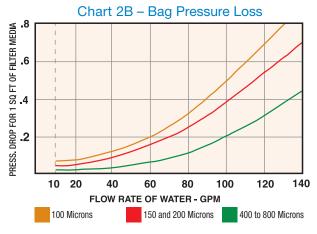
Second: Single and double length filter bags have different pressure losses. Use Charts 2A and 2B to determine the pressure loss per square foot of bag surface. Example: with a system flow rate of 30 GPM, a 5 or 10 micron bag would have a 0.2 PSI loss per square foot. This loss is divided by 2.0 for 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 \div 2.0) and 0.05 for a double length bag (0.2 \div 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 filter and the bag together to get the pressure loss across the filter with the bag installed.

Table 2 – Bag Viscosity Correction

VISCOSITY IN CPS	Water 1	50	100	200	400	600	800
CORRECTION FACTOR	1.00	4.50	8.50	16.60	27.70	38.90	50.00







HAYWARD®



CFLV Series Cartridge Filters

SINGLE AND DOUBLE LENGTH

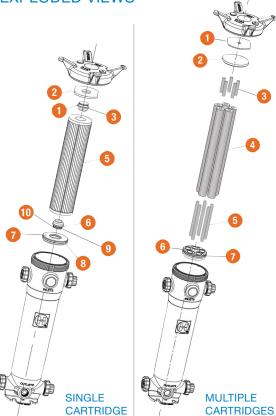
KEY FEATURES

- Platinum Glass Filled Polypropylene
- One-Piece Injection Molded Construction
- Allows for Single 7" or Multiple (5) 2-1/2" Cartridges
- Ideal for Pleated, Meltblown or Spin Wounded Cartridges
- True Union Design with Multiple End Connection Options
- Hand Removable Ergonomic Cover with Liquid Displacing Dome
- Vent Valve on Cover
- In-Line or Loop Configuration
- Drain Port at Bottom
- Integral Mounting Base

OPTIONS

- Duplex or Other Manifold Systems
- Vent Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM Seals
- Multiple Cartridge Adapters Options





TECHNICAL INFORMATION

SELE	ECTION	CHART				
SIZE*	MATERIAL	END CONNECTIONS	PIPING SIZES	SEALS	FLOW RATE	PRESSURE RATING
Single Length 7" x 16" Double Length 7" x 32"	GFPP	GFPP (Threaded and Flanged), PVC/CPVC (Socket and PP Socket Fusion)	1-1/4" - 2" (DN32 - DN50) 2-1/2" - 4" (DN65 - DN100)	FPM or EPDM	100 GPM 150 GPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.

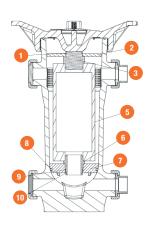
Cartridge Filter Adapter Kits, CONTINUED

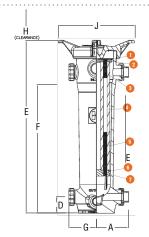
FOR SINGLE AND MULTIPLE CARTRIDGES (cartridges not included)

TECHNICAL INFORMATION, CONTINUED

SINGLE CARTRIDGE PARTS LIST

- Cartridge Connector Retaining 0-Ring
- 2. Upper Plate
- 3. Cartridge Connector (Upper)
- 5. Cartridge (not included in kit)
- 6. Cartridge Connector (Lower)
- 7. Lower Plate
- 8. Lower Plate Seal
- 9. Cartridge Connector Sealing 0-Ring
- 10. Cartridge Connector Retaining O-Ring





MULTIPLE CARTRIDGE PARTS LIST

- 1. Anti-Rotation Ring
- 2. Upper Plate
- 3. Perforated Tube (Short)
- 4. Cartridge (not included in kit)
- 5. Perforated Tube (Long)
- 6. Lower Plate Seal
- 7. Lower Plate

DIMENSIONS - SINGLE LENGTH

FILTER SIZE in / DN	A in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H* in / mm	J in / mm
1-1/4" / 32	8.86 / 225	4.50 / 114	31.83 / 808	23.00 / 584	7.60 / 193	15.25 / 387	20.93 / 532
1-1/2" / 40	8.86 / 225	4.50 / 114	31.83 / 808	23.00 / 584	7.60 / 193	15.25 / 387	20.93 / 532
2" / 50	8.91 / 226	4.50 / 114	31.83 / 808	23.00 / 584	7.60 / 193	15.25 / 387	20.93 / 532

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

DIMENSIONS - DOUBLE LENGTH

FILTER SIZE in / DN	A in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H* in / mm	J in / mm
1-1/4" / 32	8.86 / 225	4.50 / 114	47.83 / 1215	39.00 / 991	7.60 / 193	31.25 / 794	20.93 / 532
1-1/2" / 40	8.86 / 225	4.50 / 114	47.83 / 1215	39.00 / 991	7.60 / 193	31.25 / 794	20.93 / 532
2" / 50	8.91 / 226	4.50 / 114	47.83 / 1215	39.00 / 991	7.60 / 193	31.25 / 794	20.93 / 532
2-1/2" / 65	9.79 / 249	4.50 / 114	47.83 / 1215	39.00 / 991	8.38 / 213	31.25 / 794	20.93 / 532
3" / 80	9.73 / 247	4.50 / 114	47.83 / 1215	39.00 / 991	8.38 / 213	31.25 / 794	20.93 / 532
4" / 100	10.17 / 258	4.50 / 114	47.83 / 1215	39.00 / 991	8.38 / 213	31.25 / 794	20.93 / 532

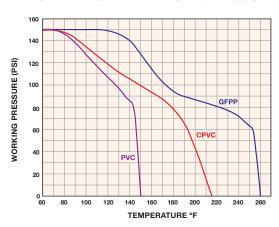
CARTRIDGE ADAPTER SELECTION CHART

	AVAILABLE	E YES / NO
CARTRIDGE TYPE	CFLV SINGLE LENGTH	CFLV DOUBLE LENGTH
2-1/2" – 2-3/4" DOE/222XCAP	Yes	Yes
4-1/2" DOE/222XCAP	Yes	Yes
Hayward 7"x16" DOE	Yes	No
Hayward 7"x16" DOE (Double Stacked)	No	Yes
Hayward 7"x30"	No	Yes
7-3/4" DOE	Yes	Yes

Consult Hayward for Available Cartridges.

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OPERATING TEMPERATURE / PRESSURE



^{*} Clearance from top for basket removal

^{*} Clearance from top for basket removal





SINGLE AND MULTIPLE CARTRIDGE VIEWS





TECHNICAL INFORMATION

COMPATIBILITY AND TEMPERATURE LIMITS

FILTER LENGTH	CARTRIDGE SIZE, RATING AND MATERIAL					
	Single Cartridge	Multiple Cartridge	Micron	Material		
SINGLE (SIZE 1)	7 x 16	2-1/2 x 10 2-1/2 x 20	5 1,5, 10 or 30	Cellulose PP		
DOUBLE (SIZE 2)	7 x 30	2-1/2 x 30	1,5, 10 or 30	PP		

Pleated Filter Cartridges

HIGH CAPACITY/EFFICIENCY

KEY FEATURES

- Multiple Micron Ratings for High Efficiency Filtration
- For use with Single (7" diameter) and Multiple (2-1/2" diameter) Cartridge CFLVs (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

BENEFITS

- Low Pressure Drop
- Multiple Layered Media Construction Guarantees Dependable Performance

TYPICAL APPLICATIONS

- Water and Wastewater Treatment
- Desalinization, RO and Deionized Water Systems
- Chemical Processing
- Food and Beverage
- Aquatic and Animal Life Support Systems
- Metal Finishing and Plating
- Marine and Corrosive Environments

MATERIALS

- PP Media
- Cellulose Media
- Plastisol PVC
- PP Core
- ABS Core

OPERATING CHARACTERISTICS

- Max. ΔP: 40 PSI at maximum recommended temperature of 140°F
- Change-out recommended at 20 PSID

Pleated Filter Cartridges, CONTINUED



CARTRIDGE FILTER ADAPTER KITS FOR INSTALLATION OF **SINGLE (1) CARTRIDGES/HAYWARD**

PART NUMBER	DESCRIPTION
CFLVKIT716	Cartridge Adapter, For Single Length Series Cartridge Filter, Cartridge 7" x 16" (DOE)
CFLVKIT732	Cartridge Adapter, For Double Length Series Cartridge Filter, Cartridge 7" x 16" (DOE) Double Stacked
CFLVKIT730	Cartridge Adapter, For Double Length Series Cartridge Filter, Cartridge 7" x 30" (DOE)



CARTRIDGE FILTER ADAPTER KITS FOR INSTALLATION OF SINGLE (1) CARTRIDGES/OTHER MANUFACTURERS***

PART NUMBER	DESCRIPTION
CFLVKIT410	Cartridge Adapter, For Single Length Series Cartridge Filter, Cartridge 4-1/2" x 10"** (DOE, 222 CAP or FIN))*
CFLVKIT430	Cartridge Adapter, For Double Length Series Cartridge Filter, Cartridge 4-1/2" x 30"** (DOE, 222 CAP or FIN)*
CFLVKIT810	Cartridge Adapter, For Single Length Series Cartridge Filter, Cartridge 7-3/4" x 10"*** (DOE)
CFLVKIT830	Cartridge Adapter, For Double Length Series Cartridge Filter, Cartridge 7-3/4" x 30"*** (DOE)



CARTRIDGE FILTER ADAPTER KITS FOR INSTALLATION OF MULTIPLE (5) CARTRIDGES/HAYWARD AND OTHER MANUFACTURERS****

PART NUMBER	DESCRIPTION
MFLVKIT210	Cartridge Adapter, For Single Length Series Cartridge Filter, Cartridge 2-1/2"-2-3/4" x 10"** (DOE, 222 CAP or FIN)*
MFLVKIT230	Cartridge Adapter, For Double Length Series Cartridge Filter, Cartridge 2-1/2"-2-3/4" x 30"** (DOE, 222 CAP or FIN)*

- Consult factory for other cartridge kit sizes.
- Some kits contain dual purpose components.
- Cartridges shown are sold separately. Kits do not include cartridges.





Flow of Water Through Schedule 80 Plastic Pipe

GALLONS /	DISCHARGE		VELOCITY IN SCHEDULE 80 PLASTIC PIPE FOR WATER @ 60°F/16°C VELOCITY							
MINUTE	HOUR	SECOND	FEET/SECOND	FEET/SECOND	FEET/SECOND	FEET/SECOND	FEET/SECOND	FEET/SECOND	FEET/SECOND	FEET/SECOND
				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	_	_	_	_	_	_
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	_	3.295	1.728	1.043	0.574		_	_
1	0.23	0.00223	_	4.122	2.167	1.311	0.718	0.435	0.505	_
2	0.45	0.00446	_	8.245	4.335	2.609	1.432	0.871	0.525	
3	0.68	0.00668	2"	12.381	6.502	3.919	2.161	1.306	0.788	0.538
4	0.91	0.00891		16.502	8.671	5.218	2.876	1.747	1.051	0.717
5 6	1.14	0.01114	— 0.05		10.837	6.528	3.592	2.181	1.313	0.896
8	1.36	0.01337	0.65 0.86	2-1/2"	13.005	7.827	4.308	2.614	1.579 2.105	1.076
	1.82	0.01782		0.750	3"	10.448	5.741	3.482		1.434
10	2.27	0.02228	1.08	0.752		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	_	4"	8.712	5.252	3.596
25	5.68	0.0557	2.69	1.886	1.238	_		10.881	6.574	4.484
30	6.81	0.06684	3.23	2.256	1.476	_	- 0.070	13.062	7.884	5.383
35	7.95	0.07798	3.78	2.638	1.726	_	0.973	15.232	9.193	6.282
40	9.09	0.08912	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	_	011/04/150	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	45.43	0.4456	21.56	15.068	9.861	_	5.561	_	2.451	_
225	51.10	0.5013	_	16.943	11.098	_	6.255	_	2.759	1.577
250	56.78	0.557	_	_	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	124.92	1.225	2.459	_	_	_	15.279	_	6.744	3.865
600	136.28	1.337	2.679	12"/DN300	_	_	16.681	_	7.352	4.215
650	147.63	1.225	2.899	_	_	_	_	_	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	272.55	2.674	5.359	3.775	_	_	_	_	14.715	8.431
1300	295.26	2.896	5.809	4.093	_	_	_	_	15.929	9.121
1400	317.98	3.119	6.259	4.401	_	_	_	_	17.165	9.833
1500	340.69	3.342	6.698	4.718	_	_	_	_	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	_	_	_	_	_	31.613
5000	1135.63	11.14			1		I	1	I	
6000	1362.75	13.37		ave surge constan						
7000	1589.88	15.6		ne table below mu			et per second. The	resultant number	is then added to	the line pressure
8000	1817.00	17.82	to determine the	e resulting wave si	urge (Water Hamr	ner Effect).				
9000	2044.13	20.05	Pine	Size	1/4" 1/2"	3/4" 1"	1-1/2" 2"	3" 4"	6" 8"	10" 12"
0000										
10000	2271.25	22.28	I :nn	stant	40 35	32 31	27 25	23 23	21 20	19 19

Other Filtration & Strainer Solutions from Hayward Flow Control...

PVC & CPVC FLV SERIES BAG FILTERS

- 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

SB SERIES SIMPLEX/DUPLEX BASKET STRAINERS

- Available in PVC, CPV, GFPP and Eastar
- Ergonomic Hand Removable Cover
- In-Line or Loop Connections
- External Cover Threads
- Integral Flat Mounting Bases
- PVC, CPVC and PP Baskets Standard
- Optional Stainless Steel, MonelR, HastelloyR and Titanium Strainer Baskets
- Duplex Configurations Available



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



YS SERIES Y-STRAINERS

- Available in PVC, CPV, Clear PVC and PVDF
- Threaded, Socket or True Union Connection
- Horizontal or Vertical Installation
- 2:1 Open Area Ratio
- Hex Cap for Easy Access to Screen
- Standard Screen Has 1/32" Perforation**
- Stainless Steel Perf or Mesh Strainer Screens Available in Various Sizes







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



SYSTEM PROTECTION

Hayward offers a full line of Pressure Differential Gauge kits to help better protect your vital systems from damage. Pressure Differential Gauges indicate when to clean, change or replace your bag filter or strainer.