



SECTION 4

WATER FILTRATION & DISINFECTION



PRODUCT LINE

PAGE

Automatic Flush Valve	35
Filter Cartridges - Economy	3-4
Filter Cartridges - Pentek	9-15
Filter Housings - Economy	1
Filter Housings - Pentek	7-8
Filter Kits & Accessories - Economy	2
Filter Kits & Accessories - Pentek	16
Filtration Systems - Pentek	17
Harmsco™ Filter Systems	21-26
Iron X	20
Pulsafeeder Chemical Feed Pumps	41-46
R/O & Chemical Containment Systems - Economy	5-6
Saddle Tap Valve and Kit	19
Uni-Dose Electronic Metering Pumps	47-48
Vu-Flow Filters & Sand Separators	27-34
Ultraviolet Disinfection Systems	37-40



Economy Filter Housings



EH Series

EH Series Economy Housing Features:

- Manufactured from NSF listed, FDA grade 100% polypropylene.
- Available in slim, standard and large diameter styles.
- 10" and 20" lengths.
- Opaque and clear sumps.
- 3/8" - 1 1/2" inlet/outlets.
- All housings have a pressure relief button.
- EPDM o-ring seals.
- Rated for temperature to 125° F and pressures to 125 psi.
- Filter housings are bulk packed. Cartridges available separately.

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Ctn Qty	List Price
SLIM STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH38BSLBP	Slim	Blue	Black	3/8"	10"	12	\$ 21.63
EH38CSLWP	Slim	Clear	White	3/8"	10"	12	28.52
EH50BSLBP	Slim	Blue	Black	1/2"	10"	12	21.63
EH50CSLWP	Slim	Clear	White	1/2"	10"	12	29.76
EH75BSLBP	Slim	Blue	Black	3/4"	10"	12	21.63
EH75CSLWP	Slim	Clear	White	3/4"	10"	12	27.40
Valve-in-Head SLIM STYLE Housings for 2 1/2" OD cartridges (allows by-pass during cartridge replacement)							
EH75VCP	Slim VIH	Clear	White	3/4"	10"	12	68.88
EH75VWP	Slim VIH	White	White	3/4"	10"	12	53.57
STANDARD STYLE Housings with pressure relief for 2 1/2" OD cartridges							
EH75BP	Standard	Blue	Black	3/4"	10"	12	41.23
EH75CP	Standard	Clear	Black	3/4"	10"	12	46.59
EH75B20P	Standard	Blue	Black	3/4"	20"	12	67.35
EH75C20P	Standard	Clear	Black	3/4"	20"	12	96.29
LARGE DIAMETER STYLE Housings with pressure relief for 4 1/2" O.D. cartridges							
EHL75BP	Lg. Diam	Blue	Black	3/4"	10"	4	81.80
EHL10BP	Lg. Diam	Blue	Black	1"	10"	4	81.80
EHL10CP	Lg. Diam	Clear	Black	1"	10"	4	142.86
EHL15BP	Lg. Diam	Blue	Black	1 1/2"	10"	4	81.80
EHL75B20P	Lg. Diam	Blue	Black	3/4"	20"	4	109.13
EHL10B20P	Lg. Diam	Blue	Black	1"	20"	4	109.13
EHL15B20P	Lg. Diam	Blue	Black	1 1/2"	20"	4	109.13

Economy Filter Kits & Accessories



EFHP Series

Filter Housing Kit Features:

- Slim, VIH, Standard and Large diameter styles.
- Complete with mounting bracket (with stainless steel screws) and sump removal wrench.
- Individually cartoned with label.
- Custom kits available. Call Customer Service for quotations.

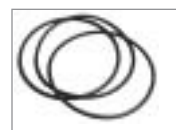
Part Number	Style	Sump	Inlet/Outlet	Length	Bracket	Ctn Qty	List Price
EFHP75BSLBP	Slim	Blue	3/4"	10"	YES	1	\$ 33.77
EFHP75CSLWP	Slim	Clear	3/4"	10"	YES	1	38.96
EFHP75VCP	Slim VIH	Clear	3/4"	10"	YES	1	77.43
EFHP75VWP	Slim VIH	White	3/4"	10"	YES	1	60.29
EFHP75BP	Standard	Blue	3/4"	10"	YES	1	51.52
EFHP75CP	Standard	Clear	3/4"	10"	YES	1	60.10
EFHPLD75BP	Large Dia	Blue	3/4"	10"	YES	1	128.93
EFHPLD10BP	Large Dia	Blue	1"	10"	YES	1	128.93
EFHPLD15BP	Large Dia	Blue	1 1/2"	10"	YES	1	128.93



ES-BA Series



EW Series



EOR Series

Part Number	Fits Style	Material	Color	Ctn Qty	List Price
Mounting Brackets for EH Series Filter Housings Includes stainless steel head mounting screws					
ES10BA	EH Slim (L)	Aluminum	White		\$ 5.12
ES15BA	EH Valve in Head (U)	Aluminum	--		7.36
ES20BA	EH Standard (L)	Aluminum	White		11.84
ES25BA	EH Large Diam. (L)	Aluminum	---		38.92
Wrenches for EH Series Filter Housing sump removal					
EWSL	Slim	Polypropylene	White		3.35
EWSTND	Standard	Polypropylene	White		3.35
EWLD	Large Diam.	Polypropylene	Black		8.16
O-rings for EH Series Filter Housings					
EOR4	Slim	EPDM			1.25
EOR8	Standard	EPDM			1.74
EOR5	Large Diam.	EPDM			3.37



EIC100

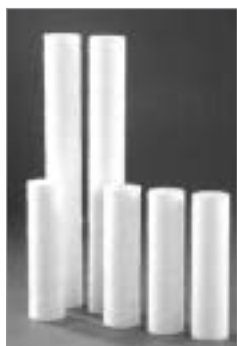
Inline Ice Maker Carbon Filter Features:

- NSF listed.
- Granular activated carbon medium.
- Removes chlorine, taste and odor from water
- Ideal for refrigerator ice makers, water dispensers and coffee makers.
- Furnished with or without 1/4" fittings.

Part Number	OD	Length	Fits Pipes	Pipe Ftgts	Ctn Qty	List Price
EIC100	2"	10"	1/4" FPT	NO	25	\$ 15.72
EIC100JG	2"	10"	1/4" plastic or copper tubing	1/4" John Guest	25	25.92



Economy Filter Cartridges



EFP Series

EFP Series Spun Polypropylene Filter Cartridge Features:

- Spun polypropylene filter cartridges.
- Ideal for aggressive chemicals and general sediment filtration when depth filtration is required.
- Density increases closer to the core.
- Excellent bacteria resistance.

Part Number	Medium	Type of Construct	Micron	O.D.	Length	Ctn Qty	List Price
SPUN POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings							
EFP1	Polypropylene	Spun	1	2 1/2"	9 7/8"	40	5.47
EFP5	Polypropylene	Spun	5	2 1/2"	9 7/8"	40	5.33
EFP20	Polypropylene	Spun	20	2 1/2"	9 7/8"	40	4.55
EFP50	Polypropylene	Spun	50	2 1/2"	9 7/8"	40	4.59
EFP1-20	Polypropylene	Spun	1	2 1/2"	20"	20	10.74
EFP5-20	Polypropylene	Spun	5	2 1/2"	20"	20	10.20
EFP20-20	Polypropylene	Spun	20	2 1/2"	20"	20	9.55
EFP50-20	Polypropylene	Spun	50	2 1/2"	20"	20	8.88
SPUN POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings							
EFPBB1	Polypropylene	Spun	1	4 1/2"	9 3/4"	10	33.29
EFPBB5	Polypropylene	Spun	5	4 1/2"	9 3/4"	10	25.09
EFPBB20	Polypropylene	Spun	20	4 1/2"	9 3/4"	10	27.62
EFPBB50	Polypropylene	Spun	50	4 1/2"	9 3/4"	10	25.90
EFPBB1-20	Polypropylene	Spun	1	4 1/2"	20"	5	62.88
EFPBB5-20	Polypropylene	Spun	5	4 1/2"	20"	5	51.80
EFPBB20-20	Polypropylene	Spun	20	4 1/2"	20"	5	59.18
EFPBB50-20	Polypropylene	Spun	50	4 1/2"	20"	5	51.80



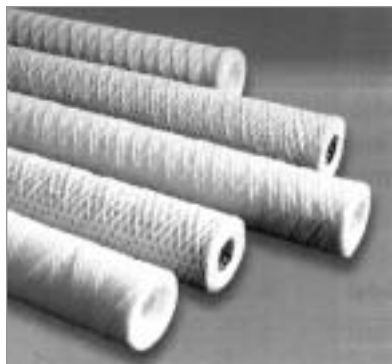
EFGAC Series

EFGAC Series Granulated Activated Carbon Filter Cartridge Features:

- For removal of taste, odor, organic chemicals and chlorine.

	Fits Housing Style	O.D.	Length	Ctn Qty	List Price
EFGAC10	Slim, Standard	2 1/2"	9 3/4"	24	\$ 12.27
EFGAC20	Slim, Standard	2 1/2"	20"	24	30.12
EFGACBB	Large Diameter	4 1/2"	9 3/4"	8	37.14
EFGACBB20	Large Diameter	4 1/2"	20"	4	67.23

Economy Filter Cartridges



EFWP Series

EFW Series Wound Filter Cartridge Features:

- Excellent depth filtration.
- FDA grade polypropylene fibers.
- Polypropylene center tubes.
- For temperatures to 140 F.
- Individually wrapped.

Part Number	Medium	Type of Construct	Micron	O.D.	Length	Ctn Qty	List Price
WOUND POLYPROPYLENE Filter cartridges for SLIM and STANDARD style housings							
EFWP1	Polypropylene	Wound	1	2 1/2"	9 7/8"	30	\$ 5.23
EFWP5	Polypropylene	Wound	5	2 1/2"	9 7/8"	30	5.06
EFWP10	Polypropylene	Wound	10	2 1/2"	9 7/8"	30	5.00
EFWP20	Polypropylene	Wound	20	2 1/2"	9 7/8"	30	4.67
EFWP30	Polypropylene	Wound	30	2 1/2"	9 7/8"	30	5.00
EFWP50	Polypropylene	Wound	50	2 1/2"	9 7/8"	30	4.92
EFWP1-20	Polypropylene	Wound	1	2 1/2"	20"	15	10.43
EFWP5-20	Polypropylene	Wound	5	2 1/2"	20"	15	10.14
EFWP10-20	Polypropylene	Wound	10	2 1/2"	20"	15	10.00
EFWP20-20	Polypropylene	Wound	20	2 1/2"	20"	15	10.00
EFWP30-20	Polypropylene	Wound	30	2 1/2"	20"	15	9.69
EFWP50-20	Polypropylene	Wound	50	2 1/2"	20"	15	9.69
WOUND POLYPROPYLENE Filter cartridges for LARGE DIAMETER style housings							
EFWPBB1	Polypropylene	Wound	1	4 1/2"	9 3/4"	8	\$ 21.31
EFWPBB5	Polypropylene	Wound	5	4 1/2"	9 3/4"	8	20.20
EFWPBB20	Polypropylene	Wound	20	4 1/2"	9 3/4"	8	20.20
EFWPBB50	Polypropylene	Wound	50	4 1/2"	9 3/4"	8	20.20
EFWPBB1-20	Polypropylene	Wound	1	4 1/2"	20"	4	42.61
EFWPBB5-20	Polypropylene	Wound	5	4 1/2"	20"	4	40.41
EFWPBB20-20	Polypropylene	Wound	20	4 1/2"	20"	4	40.41
EFWPBB50-20	Polypropylene	Wound	50	4 1/2"	20"	4	40.41



Economy Residential R.O. Systems



ROK1050



ROK2050

Economy Residential RO System Features:

- Pre-assembled, easy to install 4 or 5 stage RO system.
- Complete with all installation accessories and instructions.
- High rejection, thin film membrane up to 98% efficient with 50 gallon per day capacity. (Note: Feed water requirements below)
- NSF Standard 58 listed, FDA approved, polypropylene tank rated to 100 psi.
- All cartridges, valves, fittings included.
- All fittings, tubing, housings, valves, cartridges and membranes are NSF listed or made from NSF listed materials.
- WQA validated, 1800 gallon, patented automatic shut-off valve made from NSF listed materials.
- Lead free, long reach chrome faucet included. Meets State of California requirements.
- Sump wrench, white aluminum bracket included.

Feed Water Requirements:

- Maximum TDS: 2,000 ppm
- Maximum Iron: 0.3 ppm
- Maximum hardness: 12 gpg
- Temperature: 45-100°F
- Maximum hydrogen sulfate: 0
- Maximum manganese: 0.05 ppm
- Pressure: 30-100 psi (min/max)
- pH: 4-10

The Benefits (nominal ion rejection characteristics)*

Aluminum	96-98%	Manganese	96-98%
Ammonium	80-90%	Mercury	94-97%
Borate	30-50%	Nickel	96-98%
Boron	50-70%	Nitrate	90-95%
Bromide	90-95%	Orthophosphate	96-98%
Cadmium	93-97%	Phosphate	95-98%
Calcium	93-98%	Polyphosphate	96-98%
Chloride	92-95%	Potassium	92-96%
Chromate	85-95%	Radioactivity	93-97%
Copper	96-98%	Silica	80-90%
Cyanide	85-95%	Silicate	92-95%
Fluoride	92-95%	Silver	93-96%
Hardnes Ca & Mg	93-97%	Sodium	92-98%
Iron	96-98%	Sulfate	96-98%
Lead	95-98%	Thiosulfate	96-98%
Magnesium	93-98%	Zinc	96-98%

• The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperature, pressure & TDS content of the feed water

ROK Systems Include:

- NSF listed Jaco fittings (ROK1050).
- NSF listed John Guest fittings (ROK2050).
- 3/8" tubing post tank (ROK2050).
- NSF listed filter housings.
- NSF standard 58 listed white polypropylene tank. (9" diam x 20" high)
- NSF listed 10 micron carbon block cartridge.
- NSF listed in-line post carbon cartridge.
- NSF component thin film membrane, Dow/Filmtec 50 gpd.
- Coconut shell GAC carbon cartridge made with NSF listed materials (ROK2050).
- 5 micron sediment pre-filter cartridge made with NSF listed materials.
- WQA validated, 1800 gallon, patented automatic shutoff valve made w/ NSF materials.
- Long reach, lead free chrome faucet, meets State of California requirements.
- Sump wrench, tubing, saddle valve, check valve, ball valves, flow restrictor included.
- Complete installation instructions.

Part No.	Description	List Price
ROK1050	4 stage RO system, 50 gpd	\$ 410.72
ROK2050	5 stage RO system, 50 gpd	532.14
ROK1050MEM	TFC membrane 50 gpd	108.43

Note: For cold water use only. Do not install on hot water line. To insure that the membrane is functioning properly, the product water must be tested regularly.

Economy Drinking Water Systems



DWS2



DWS2M



DWS3M

Economy Drinking Water System Features:

- Pre-assembled, easy to install.
- Complete with all installation accessories and instructions.
- Carbon and sediment filter cartridges sold separately.
- Select the appropriate carbon cartridge to reduce taste and odor, chlorine, giardia, cryptosporidium, VOC's, lead and mercury. See page 4.7 - 4.8 for full selection of carbon filter cartridges to fit the specific need.

DWS Series Includes:

- NSF listed housings
- NSF listed John Guest fittings.
- NSF listed tubing.
- Lead free, long reach chrome faucets. Meets State of California requirements.
- WQA validated, 1800 gallon, patented automatic shut-off valve made from NSF listed materials. (DWS-M Series only)
- White aluminum bracket with stainless steel mounting screws.
- Saddle valve.
- Carbon filter cartridges **NOT** included. See page 4.7-4.8 for a full selection.

Part No.	Description	List Price
DWS2	2 Stage system (no Auto shut-off)	\$ 125.67
DWS2M	2 Stage system w/ Auto shut-off	165.77
DWS3M	3 Stage system w/ Auto shut-off	194.24

Available Carbon Filter Cartridges
See page 4.13-14 for description and list prices.



Series	PFC	PFGAC	PFCEP	PFCC	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	N/A	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes	Yes
Cyst Reduction <i>Giardia & Cryptosporidium</i>	No	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes	Yes
Lead & Mercury	No	No	No	No	No	Yes



Filter Housings

Styles:

- Standard
- Slim Line™
- Valve-in-Head
- High Temperature
- Big Blue®

Materials:

- Opaque - Reinforced Polypropylene
- Clear - FDA Styrene-Acrylonitrile (SAN)

Applications:

- Residential/Whole house, Commercial/Industrial, Institutional, OEM



ISO 9001



PFH75B

Standard Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/4" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Can be equipped with an optional pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75B	Standard	Blue	Black	3/4" NPT	12 1/4"	5 1/8"	12	\$ 46.45
PFH75C	Standard	Clear	Black	3/4" NPT	12 1/4"	5 1/8"	12	60.66
PFH75B20	Standard	Blue	Black	3/4" NPT	22 3/8"	5 1/8"	8	83.10



PFH38SLC5

PFH38SLC

Slim Line™ Housing Features:

- Ideal for a wide range of residential, commercial and industrial applications.
- 3/8" NPT inlet/outlet.
- Available in 5" and 10" lengths.
- Can be equipped with an optional pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH38SLB5	Slimline	Blue	Black	3/8" NPT	7"	4 3/8"	12	\$ 33.02
PFH38SLC5	Slimline	Clear	Blue	3/8" NPT	7"	4 3/8"	12	49.28
PFH38SLB	Slimline	Blue	Black	3/8" NPT	11 3/4"	4 3/8"	12	34.10
PFH38SLC	Slimline	Clear	Blue	3/8" NPT	11 3/4"	4 3/8"	12	50.40

Filter Housings



PFH75VB20

Valve-in-Head Housing Features:

- Valve-in-Head (VIH) feature closed both the inlet and outlet ports simultaneously with a half turn of the handle.
- Makes cartridge change outs quick and easy.
- Available in 5", 10" and 20" lengths.
- Can be equipped with an optional pressure relief button on the inlet side of the head.
- Available with either clear or opaque sump.
- Maximum operating pressure 125 PSI @ 125° F

ISO 9001

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75VB	VIH	Blue	Black w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	\$ 78.59
PFH75VC	VIH	Clear	Blue w/ VIH	3/4" NPT	12 1/2"	5 1/8"	12	85.13
PFH75VB20	VIH	Blue	Black w/ VIH	3/4" NPT	22 3/8"	5 1/8"	8	110.87



PFH75HR

High Temperature Housing Features:

- Low cost alternative to stainless and carbon steel housings.
- Durable glass reinforced nylon construction.
- Available with 1/2" and 3/4" NPT inlet/outlet
- Maximum temperature rating of 165° F.
- Maximum operating pressure 200 PSI @ 200° F

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
PFH75HR	High Temp	Black	Black	3/4" NPT	12 1/8"	5 1/8"	12	\$ 207.55



CPFHD10

Big Blue® Large Diameter Housing Features:

- Large capacity housing designed for whole house and high-flow applications.
- Available with 3/4", 1" or 1 1/2" NPT inlet/outlet.
- Available in 10" and 20" lengths.
- Equipped with a pressure relief button on the inlet side of the head.
- Accepts large capacity 4 1/2" diameter cartridges.
- Maximum operating pressure 100PSI @ 100° F
- PFHD10 and PFHD15 packed in white box with a spanner wrench.
- Bulk packed without spanner wrench

Part No.	Style	Sump	Head	Inlet/Outlet	Length	Width	Ctn Qty	List Price
CPFHD75	Big Blue®	Blue	Black	3/4" NPT	13 1/8"	7 1/4"	6	\$ 107.84
CPFHD75BB	Big Blue®	Blue	Black	3/4" NPT	23 3/8"	7 1/4"	4	150.99
CPFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	6	110.03
PFHD10	Big Blue®	Blue	Black	1" NPT	13 1/8"	7 1/4"	1	118.59
PFHD10HFP20	Big Blue®	Blue	Black	1" NPT	23 3/8"	7 1/4"	4	189.79
CPFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	6	114.10
PFHD15	Big Blue®	Blue	Black	1 1/2" NPT	13 5/8"	7 1/4"	4	122.83



Filter Cartridges

Cartridge Selection Guide



ISO 9001

SEDIMENT



Series	PFWP	PFS	PFR	PFP	PFPD
Micron Rating	5, 25, 50	20	30, 50	1, 5, 25	1, 5, 25
Avail Lengths	10"	10" & 20"	10"	10" & 20"	10" & 20"
Construction Style	String Wound	Pleated	Pleated	Spun	Therm Bonded
Medium	Polypropylene	Cellulose	Polyester	Polypropylene	Polypropylene
Filtration Style	Depth	Surface	Surface	Depth	Depth
Applications	Chlorinated & Non-Chlorinated	Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated	Chlorinated & Non-Chlorinated
Avail for Big Blue	Yes	Yes	Yes	No	No

TASTE/ODOR & SEDIMENT



Series	PFC	PFGAC	PFCEP	PFCBC	PFCBR2
Sediment	5 micron	N/A	5 micron	1 micron	0.5 micron
Taste & Odor	Yes	Yes	Yes	Yes	Yes
Chlorine	Yes	Yes	Yes	Yes	Yes
Cyst Reduction <i>Giardia & Cryptosporidium</i>	No	No	No	Yes	Yes
VOC Reduction	No	No	No	Yes	Yes
Lead & Mercury	No	No	No	No	Yes
Avail for Big Blue	No	Yes	Yes	Yes	No
Est Filter Life	6 mo.	12 mo.	12 mo.	12 mo.	12 mo.

Filter Cartridges



Sediment Cartridges:

- String wound
- Pleated cellulose
- Pleated polyester
- Spun polypropylene
- Thermally Bonded polypropylene



ISO 9001

String Wound Cartridges



PFWP
String
Wound



PFWP-BB
String
Wound



PFWPX-BB
Fibrillated

PFWP & PFCW Series String Wound Polypropylene Cartridges

- Ideal for fine sediment reduction, including sand, silt, scale and rust.
- These cord wound cartridges are compatible with most acids, alkalies, corrosive fluids & gases.
- Precise winding pattern ensures high efficiency rate and high dirt loading capacity.
- Core material: FDA Polypropylene
- Max temperature: 180° F
- General purpose filtration.

PFWP-BB Series String Wound Polypropylene Cartridges

- Constructed of fibrous polypropylene over polypropylene core.
- Note: An antistatic agent has been used in the processing of the fibrous polypropylene and may cause some foaming in water.

PFWPX-BB String Wound Fibrillated Polypropylene Cartridges

- Constructed of fibrillated polypropylene on a polypropylene core.
- For use when pressures require minimization of exactables and/or fiber migration.

	Medium	Type of Construction	Micron Opening	GPM	Length	Ctn Qty	List Price
Standard Housings 2 3/8" diameter							
PFCWF	Polypropylene	Wound	fine	7	9 7/8"	24	\$ 8.08
PFCWMF	Polypropylene	Wound	med. fine	10	9 7/8"	24	7.39
PFCW50	Polypropylene	Wound	50	10	9-7/8"	24	5.66
PFWP1	Polypropylene	Wound	1	5	9-7/8"	30	3.61
PFWP5	Polypropylene	Wound	5	5	9-7/8"	30	3.54
PFWP10	Polypropylene	Wound	10	5	9-7/8"	30	3.54
PFWP20	Polypropylene	Wound	20	5	9-7/8"	30	3.54
PFWP30	Polypropylene	Wound	30	5	9-7/8"	30	3.54
PFWP50	Polypropylene	Wound	50	5	9-7/8"	30	3.47
Large Diameter Housings 4 1/2" diameter							
PFWP.5BB97P	Polypropylene	Wound	0.5	5	9-7/8"	12	20.36
PFWP1BB97P	Polypropylene	Wound	1	5	9-7/8"	12	17.86
PFWP5BB97P	Polypropylene	Wound	5	5	9-7/8"	12	17.75
PFWP10BB97P	Polypropylene	Wound	10	5	9-7/8"	12	17.75
PFWP20BB97P	Polypropylene	Wound	20	5	9-7/8"	12	17.75
PFWP30BB97P	Polypropylene	Wound	30	5	9-7/8"	12	17.75
PFWP50BB97P	Polypropylene	Wound	50	5	9-7/8"	12	17.68
PFWPX5BB97P	Fibrillated Polypropylene	Wound	5	10	9-7/8"	8	35.41
PFWPX10BB97P	Fibrillated Polypropylene	Wound	10	15	9-7/8"	8	33.94
PFWPX25BB97P	Fibrillated Polypropylene	Wound	25	20	9-7/8"	8	37.32
PFWPX50BB97P	Fibrillated Polypropylene	Wound	50	30	9-7/8"	8	32.08



Filter Cartridges



ISO 9001



PFS

PFS Series Pleated Cellulose Cartridge

- Used for general water filtration purposes.
- This filter is comprised of four square feet of cellulose, providing maximum surface area and strength to prolong cartridge life.
- External netted sheath provides extra support, protecting against system pulsating.
- End caps fused to body assure an integral sealing area and prevent by-pass.
- Nominal 20 micron rating.

	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFS1	Cellulose	Pleated	20	12	Standard	9-3/4"	24	\$ 7.12
PFS1-20	Cellulose	Pleated	20	15	Standard	20"	14	18.77
PFS1BB	Cellulose	Pleated	20	10	Big Blue	9-3/4"	8	23.80
PFS1-20BB	Cellulose	Pleated	20	12	Big Blue	20"	6	39.76

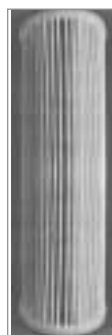


PFR

PFR Series Pleated Polyester Cartridges

- Excellent for water well, institutional and light industrial applications.
- Four square feet of media on standard and 20 square feet of media on BB
- Pleated polyester fabric filter can be washed and resued several times.† Reuse is not recommended in potable water applications.
- Synthetic construction will not support bacteria growth.
- Available with nominal 30 and 50 micron ratings.

	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFR30-478	Polyester	Pleated	30	5	Compact	4-7/8"	24	\$ 15.66
PFR30	Polyester	Pleated	30	12	Standard	9-3/4"	24	18.43
PFR50	Polyester	Pleated	50	12	Standard	9-3/4"	24	16.26
PFR30BB	Polyester	Pleated	30	25	Big Blue	9 3/4"	8	37.56
PFR50BB	Polyester	Pleated	50	25	Big Blue	9 3/4"	8	29.01



PFCP

PFCP Series Pleated Cellulose Polyester Cartridges

- 6 sq. feet of media on standard and 16 sq.ft. on BB provide additional surface area and allow increased dirt holding capacity and low pressure drop
- Ideal for high flow applications.
- Cartridges are encapsulated in polyester outer sheath for added support.

	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFCP1	Cellulose Polyester	Pleated	1	15	Standard	9-3/4"	24	\$ 12.59
PFCP5	Cellulose Polyester	Pleated	5	15	Standard	9-3/4"	24	11.38
PFCP10	Cellulose Polyester	Pleated	10	15	Standard	9-3/4"	24	10.68
PFCP5BB	Cellulose/Poly Blend	Pleated	5	30	Big Blue	9-3/4"	8	27.89

Filter Cartridges



PFP

PFP Series Spun Polypropylene Fiber Cartridges

- Excellent bacteria and chemical resistance.
- Manufactured from pure 100% polypropylene.
- Fibers are carefully spun to form a cartridge w/ variable density. The density increases closer to core.
- Available in three different lengths and micron ratings

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	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFP5-478	Polypropylene	Spun	5	5	Compact	4-7/8"	24	\$ 7.31
PFP1	Polypropylene	Spun	1	10	Standard	9-7/8"	24	9.81
PFP5	Polypropylene	Spun	5	10	Standard	9-7/8"	24	8.54
PFP25	Polypropylene	Spun	25	10	Standard	9-7/8"	24	8.54
PFP1-20	Polypropylene	Spun	1	20	Standard	20"	20	20.37
PFP5-20	Polypropylene	Spun	5	20	Standard	20"	20	16.39
PFP25-20	Polypropylene	Spun	25	20	Standard	20"	20	16.72



PFDGD Spun Polypropylene Dual Gradient Cartridge

- Dual gradient filter included pre and post filtration reduce large and fine particles to enhance cartridge performance.
- Eliminates need for multiple housing step-down systems
- Three times the dirt holding capacity

	Medium	Type of Construct	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFDGD2501-10	Polypropylene	Spun	Pre 25/Post 1	10	Big Blue	10"	8	32.88
PFDGD2501-20	Polypropylene	Spun	Pre 25/Post 1	20	Big Blue	20"	6	60.86
PFDGD5005-10	Polypropylene	Spun	Pre 50/Post 5	10	Big Blue	10"	8	31.59
PFDGD5005-20	Polypropylene	Spun	Pre 50/Post 5	20	Big Blue	20"	6	58.43
PFDGD7525-10	Polypropylene	Spun	Pre 75/Post 25	10	Big Blue	10"	8	31.37
PFDGD7525-20	Polypropylene	Spun	Pre 75/Post 25	20	Big Blue	20"	6	58.23



PFPD

PFPD Series Thermally Bonded Polypropylene Cartridge

- Manufactured from pure 100% polypropylene.
- 98% efficient, more efficient than resin bonded cartridges.
- Thermal bonded micro-fiber construction.
- Withstands high temperature and pressure differentials.
- No fiber release, brittleness or growth/shrinkage due to climate conditions.
- Available in a wide range of micron ratings and lengths.

	Medium	Type of Constructions	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFPD-10	Polypropylene	Therm Bonded	10	10	Standard	9-7/8"	24	\$ 10.59
PFPD-5	Polypropylene	Therm Bonded	5	10	Standard	9-7/8"	24	10.59
PFPD-25	Polypropylene	Therm Bonded	25	10	Standard	9-7/8"	24	10.26



Filter Cartridges

Taste/Odor/Sediment Cartridges:

- Carbon Impregnated
- Granular Activated Carbon (GAC)
- Carbon Block



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PFC1

PFC Series Carbon Impregnated Cellulose Cartridges

- Dual purpose cartridge provides taste/odor/chlorine reduction plus sediment filtration.
- A combination of carbon and cellulose creates a dual filter used for removing fine particles and reducing unwanted tastes and odors occasionally found in tap water.
- Excellent "polishing" filter when used in process or closed loop systems.
- Design maximized dirt holding capacity.

	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFC2	Carbon/Cellulose	Wrap	5	2500 @ 2 gpm	Compact	4 3/4"	24	\$ 10.54
PFC1	Carbon/Cellulose	Wrap	5	5000 @1 gpm	Standard	9 7/8"	24	11.60
PFC1-20	Carbon/Cellulose	Wrap	5	10,000 @1 gpm	Standard	20"	24	27.68



PFGAC



PFCC

PFGAC Series Granular Activated Carbon (GAC) Cartridges

- Designed to reduce or eliminate unwanted tastes and odors such as chlorine.
- Water enters the filter from the bottom and travels through the entire charcoal bed before exiting at the top. This filtration technique maximizes contact time with carbon to insure maximum absorption.
- Internal expansion pad maintains a tight compact column to minimize channeling or by-pass.
- Nominal 20 micron post filter reduces the content of carbon fines & suspended particles

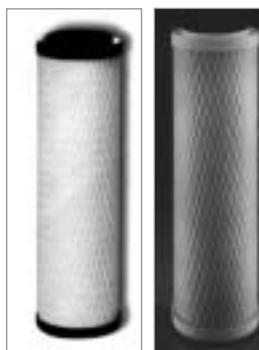
PFCC Series Granular Activated Coconut Carbon Cartridges

- Coconut Shell based activated carbon to reduce organic chemicals like EDB, TCE & THM plus chlorine.
- Nominal 20 micron post filter to reduce carbon fines and other particles.

	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFGAC5	Granular Carbon	Canister	20	750 @ .5gpm	Compact	4 7/8"	24	16.75
PFGAC10	Granular Carbon	Canister	20	5000 @ 1gpm	Standard	9 7/8"	12	19.22
PFGAC20	Granular Carbon	Canister	20	10000 @ 2gpm	Standard	20"	6	40.62
PFGACBB	Granular Carbon	Canister	20	12500 @ 2gpm	Big Blue	9 3/4"	8	48.62
PFGAC20BB	Granular Carbon	Canister	20	30000 @ 4gpm	Big Blue	20"	10	111.75
PFCC10	Granular Carbon	Canister	20	7500 @ 1gpm	Standard	9 3/4"	12	23.46



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PFCEP

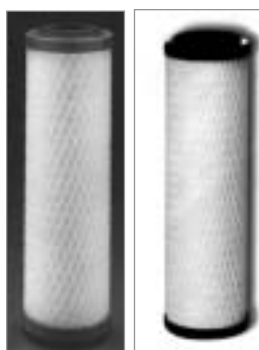
PFCBC

PFCEP Series Carbon Block Cartridges

- Designed for post RO applications.
- Minimizes chlorine and pH rise and produces low extractables.
- Acid washed coconut formulation
- Light brown end cap

PFCBC Series Carbon Block Cartridges

- Designed to reduce VOC's, chlorine, color bodies, plus remove fine sediment from the residual, commercial & industrial liquids. Filters giardia & cryptosporidium cysts from potable water.
- High chemical adsorption provided by acid washed bituminous powdered, activated carbon block.
- Sediment filter eliminates unwanted particles down to 0.5 nominal micron.
- Excellent polishing filter or prefilter.



PFCBR

PFCCBC

PFCBR Series Carbon Block Multimedia Cartridge

- Removes both metals and chemicals with one cartridge.
- All purpose carbon block cartridge removes unpleasant tastes and odors plus greatly reduces the amount of dissolved heavy metals and the taste of chlorine.
- Removes lead up to 96% and mercury up to 98%.
- Also removes up to 99% of giardia and cryptosporidium cysts and sediment particles down to .5 micron in size.

PFCCBC Carbon Block Cartridges

- Water washed coconut shell
- Offer greater VOC reduction capabilities
- Dark brown end cap.

PFWC25S

- Cord wound bleached cotton cartridge with stainless steel core is designed for high temperature applications. Use with PFH75HR housing.
- Filtering media has been FDA approved for use with hot water & beverages, as well as distilled water, vegetable oils, petroleum, citric & fatty acids & alcohols down to 25 microns.

	Medium	Type of Construction	Micron Opening	Chlorine Reduction gal	Fits Housing	Length	Ctn Qty	List Price
PFCEP10	Acid washed	Carbon Block	5	5000 @ 1 gpm	Standard	9 3/4"	12	\$ 18.22
PFCEP20E	Acid washed	Carbon Block	5	10000 @ 2 gpm	Standard	20"	6	36.18
PFCEPB20	Acid washed	Carbon Block	10	32000 @ 4 gpm	Big Blue	20"	6	95.11
PFCBC10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	37.55
PFCBC20	Acid washed	Carbon Block	0.5	45000 @ 1 gpm	Standard	20"	12	55.23
PFCBCBB	Acid washed	Carbon Block	0.5	50000 @ 2 gpm	Big Blue	9 3/4"	4	96.69
PFCBCBB20	Acid washed	Carbon Block	0.5	150000 @ 4 gpm	Big Blue	20"	6	186.14
PFCBR2-10	Acid washed	Carbon Block	0.5	20000 @ 1 gpm	Standard	9 3/4"	12	47.44
PFCCBC10	Water Washed	Carbon Block	0.5		Standard	9 3/4"	12	29.60
PFWC25S	Bleached Cotton CordWound		25		Standard	9 7/8"	6	17.97

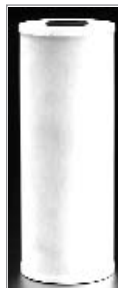


Filter Cartridges

Specialty Cartridges



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PFRFC

PFRFC Series Radial Flow Carbon Cartridges

- Radial flow carbon cartridge designed for gas and liquid filtration.
- Activated carbon bed and inner layers of polypropylene remove particles over nominal 7 microns.
- Removes organic and particulate contaminants from plating, acid alkaline and hydrocarbon solutions when used for liquid filtration.

	Medium	Type of Construction	Micron Opening	GPM	Fits Housing	Length	Ctn Qty	List Price
PFRFC93	Carbon/Polypropylene	Canister	7	1-3	Standard	9 3/4"	24	\$ 36.73
PFRFCBB	Carbon/Polypropylene	Canister	7	3-10	Big Blue	9 3/4"	8	76.63
PFRFC20BB	Carbon/Polypropylene	Canister	7	5-15	Big Blue	20"	6	150.79



PFIC100

Sealed In-Line Cartridges

- Ideal for refrigerator icemakers and water dispensers, coffee makers and other 1/4" in-line applications.
- Granular activated carbon removes chlorine, bad taste and odor from water.
- **TS100 includes phosphate crystals for clear ice cubes and to prevent line/scale build-up.**
- Connects easily to 1/4" copper or plastic cold water lines.
- Capacity of 2000 gallons, estimated life of 12 months.

Part Number	Description	Casing	Length	Ctn Qty	List Price
Ice Maker Carbon Filter					
PFIC100	Granular Activated Carbon	plastic	10 5/8"	6	\$ 27.42

Filter Kits & Accessories



Housing & Cartridge Combination Kit Features:

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- Each kit contains one complete housing, one cartridge, and installation sheet.

Part Number	Size	Sump	Cartridge	List Price
Housing & Cartridge Combination Kits				
PFH38SLC-S1	3/4" slimline	transparent	general purpose/sediment	\$ 61.72
PFH75C-S1	3/4" standard	transparent	general purpose/sediment	76.37
PFH75C-C1	3/4" standard	transparent	taste/odor/sediment	76.46

"PF" Series Housing Replacement Parts:

Including replacement heads, sumps, o-rings, mounting brackets and wrenches.



PFMB75



PFMC1



PFWBA



PFSW

Part Number	Description	Ctn Qty	List Price
PFC38BL	Blue Head for 3/8" Housing	1	\$ 20.81
PFC75BL	Blue Head for 3/4" Housing	1	17.27
PF75CS	Clear Sump for 3/4" Housing	1	54.41
PFBBS	Big Blue Sump only	1	59.63
PFOR38	O-Ring for 3/8" Series	1	3.87
PFOR75	O-Ring for 3/4" Series	1	3.87
PFBBOR	O-Ring for Big Blue	1	11.71
PFMB3814	Mounting Bracket for 3/8"	1	7.75
PFMB75	Mounting Bracket for 3/4" - U Shaped	1	11.93
PFMC1	Mounting Bracket for 3/4" caps w/ Bosses	1	12.30
PFWBBS	Mount Bracket for 1-1 1/2" Big Blue, Stainless, Not for use with 20" Big Blue	1	67.18
PFCC	Standard Cartridge Coupler	1	2.89
PFCCBB	Large Diameter Cartridge Coupler	1	4.08

Housing Wrenches

SW1	3/4" Blue Wrench for H75C Imported	1	10.02
PFSW1	3/8" Black Wrench for Slimline Housing	1	8.40
PFSW2	3/4" Black Wrench for Standard Housing	1	8.40
PFSW3	Black Wrench for Large Diameter Housing	1	12.40



Filtration Systems



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BBFS22

BBFS Filtration System Features:

- Large capacity, multi-housing system.
- Allows for greater cartridge capacity and high flow rates.
- Consists of (2) or (3) 20" big Blue Filter housings with 1" NPT I/O mounting bracket.
- Designed for residential, commercial and industrial applications.
- System does NOT include filter cartridges.

Part No.	Description	List Price
BBFS22	2 housing Big Blue System (15 1/4" x 8 1/2" x 26 1/2")	\$ 387.05
BBFS222	3 housing Big Blue System (23 1/4" x 8 1/2" x 26 1/2")	541.55



PFCCF-201

CCF Filtration System Features:

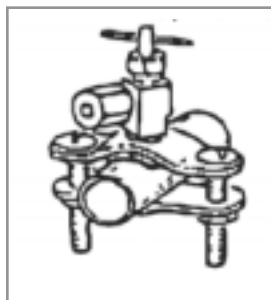
- Effectively reduces a wide range of chemical and other contaminants from drinking water.
- Granulated activated carbon removes chlorine, bad taste and odor from water.
- System includes an "effective life indicator" for filter replacement.
- 1200 gallon automatic metering shut-off valve assembled to a mounting bracket.
- Filter cartridges are included. PFCCF301 includes an additional Slim Line housing and PFP5 sediment pre-filter.

Part No.	Description	List Price
PFCCF201	2 SlimLine blue housings, 2 PFCC-10 cartridges	\$ 431.28
PFCCF-301	3 Slim Line blue housings, 2 PFCC10 cartridges and 1 PFP5 prefilter cartridge.	492.89
PFCC10	Carbon Filter Cartridge	23.46
PFP5	Sediment Pre filter Cartridge	8.54





Brass Saddle Tap Valve and Kit



Brass Saddle Tap Valve and Kit Features:

- Self piercing tap valve and clamp for 3/8" to 1" OD copper tube or 3/8" to 3/4" iron pipe.
- Plastic sleeve, brass compression nut and brass insert (for reinforcing polyethylene tubing).
- Brass compression union for connecting polyethylene tubing to 1/4" water inlet at refrigerator, humidifier or cooler.
- 25 feet of 1/4" OD polyethylene tubing.
- The saddle tap valve eliminates plumbing connections and fittings.
- Supplies water to most humidifiers, evaporative coolers and refrigerators with automatic ice maker or water dispenser in door.
- Use for installation of Reverse Osmosis and Chemical Contaminant Filter Systems.
- For use on copper tube or iron pipe.

Part Number	Description	Ctn Qty	List Price
HTVK381	Tapping Valve Kit fits 3/8" - 1" OD copper tube or 3/8"-3/4" iron pipe	12	\$ 12.37
PFSTV	Saddle Tapping Valve Only fits 3/8" - 1" OD Copper tube or 3/8"-3/4" iron pipe	10	4.54



IronX Features:

- To remove rust, iron and other contaminants from all types of water conditioning equipment.
- Wintergreen smell

For use on

- Sinks
- Tubs
- Toilets
- Dishwashers
- Water softeners
- White clothing
- Brick, stone & concrete

Part Number	Description	Ctn Qty	List Price
IX24	Iron X, 24 oz.	12	\$ 8.42
IX5	Iron X, 5 lb.	6	24.49



Harmsco™ Up Flow Cartridge Filtration . . A design so superior it's patented!

Harmsco® Up-Flow Cartridge filters outperform conventional filter designs because the outlet is located above the inlet to eliminate air entrapment during operation. With Up-Flow Filters, liquid enters the vessel through the inlet, located at the bottom of the filter. As the liquid travels upward, it flows through the media, past the top seal, separating the dirty and clean water chambers, and down the standpipe as it exits the filter. Because the top of the standpipe is located above the top seal, air is self-purged from the filter to eliminate vents and improve filtration efficiency.

Features:

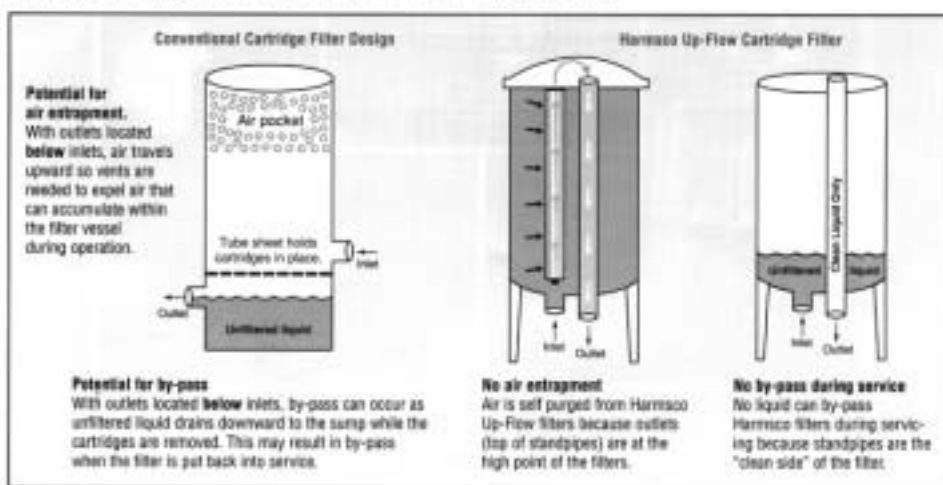
- Constructed of low carbon 304 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion and increased durability.
- Individual studs for optimum security. No v-clamps with only one bolt to secure lids.
- Wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. or torque above 100 psi.
- All filters are pressure rated to 150 PSI (10bar) and hydrostatically tested.
- Cartridges in some models are arranged in a single "cluster" for easy cartridge installation, removal and service.

Typical Applications:

- Drinking water
- Bottled water
- Ground Water
- Asbestos abatement
- Chill water
- Industrial
- Process water
- Beverages
- Surface water
- Plating baths
- Desalination prefilters
- Commercial
- R/O pre-filtration
- Drinking fountains
- Rinse water
- Cooling water
- Ultrafiltration
- Municipal
- Industrial waste water
- Whole house filtration
- Environmental
- Heating loops
- Spray nozzles

Harmsco Up-Flow Filters Outperform the Competition!

With conventional cartridge filter designs, inlets are located **above** outlets. Therefore, vents are required to relieve air that can accumulate within the filter vessel during operation. By-pass can also occur when unfiltered liquid drains to the sump while the cartridges are removed, when the filter is put back in service. Please see diagrams, below:



Easy Cartridge Installation and Replacement:



Install cartridge on holding rod.



Tighten threaded pipe cap securely.



Hold cartridge by end cap and rotate until secure.



Cartridge cluster is ready for installation.



Two Filter Styles Cartridge Cluster Filters and High Capacity Models



Typical Installations:



Cartridge Cluster Filters

Cartridges in the HIF7, HIF14, HIF16, HIF21 and HIF24 models are arranged in a single "cartridge cluster", so all cartridges are removed at one time.

Hi Capacity Filters

Cartridges in the HIF42, HIF75, HIF100, HIF150-FL, HIF200FL models are installed on lifting rods so a single stack of cartridges are removed at one time for convenience.

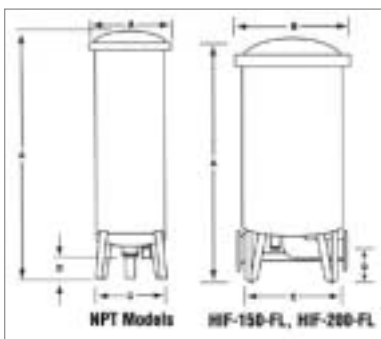
Specifications:

Filter Vessel & Metal components	Low carbon 304 stainless steel, electro polished
Rods & standpipes	CPVC, standard models; 304 stainless steel, all stainless models
Pipe caps	CPVC, standard models; 304 stainless steel, all stainless models
Rim gaskets	EPDM, standard. Buna-N and Viton available
O-Rings	Buna-N, standard. EPDM and Viton available
Bottom seals	Natural gum rubber, standard; EPDM and Buna-N available
Wing Nuts	Brass, Brass nuts and stainless steel flat washers available
Temperature	Rated to 140° F (60° C) with CPVC rods, pipe caps, stanf pipes & standard Harmsco cartridges. To 200° F (93° C) for all stainless models with stainless steel rods, pipe caps, standpipes and Harmsco High-temp cartridges. Temperature limits vary and depend on pressure & time under load.
Pressure	Rated for pressure to 150 psid(10 bar) maximum.
Flow	Typical flow rates are 3-6 GPM per single length 9 3/4" Harmsco cartridges.

Chemical Resistant Coatings:



Harmsco™ filters are available with a DYKOR coating, a high performance material like Teflon used to provide increased resistance to chemicals, abrasion & the environment. The coating is applied to all stainless steel surfaces (inside & out).



Dimensions:

Model	A	B	C	D	Service Height	Inlet/Outlet	Drain
HIF7	19 1/2"	13"	13"	3 1/2"	35"	1 1/2" NPT	None*
HIF14	28"	13"	13"	3 1/2"	48"	1 1/2" NPT	None*
HIF16	28"	13"	13"	4"	48"	2" NPT	1" NPT
HIF21	37"	13"	13"	3 1/2"	68"	1 1/2" NPT	None*
HIF24	37"	13"	13"	4"	68"	2" NPT	1" NPT
HIF42	40"	18"	18"	5 3/8"	68"	2" NPT	None*
HIF75	42"	20"	20"	5 7/8"	70"	3" NPT	None*
HIF100	52"	20"	20"	5 7/8"	87"	3" NPT	None*
HIF150FL	48"	28"	28"	5 3/16"***	76"	4" Flange	1 1/2" NPT
HIF200FL	58"	28"	28"	5 3/16"***	93"	4" Flange	1 1/2" NPT

* Install tee fittings and valve on inlet for drain. ** To center of flange fittings.



Cluster Models



High Capacity Models

Harmsco™ Filters Features:

Cartridge Cluster Models:

- Entire set of filter cartridges is removed at one time for cleaning or replacement.
- Filter rack assembly is made of CPVC (stainless steel available)
- Rugged 304 electro-polished stainless steel housing.
- Individual studs for safe, secure lid closure.
- Brass wing nuts for hand tightening.
- Pressure rated to 150 PSI.
- For whole house, commercial, industrial and municipal applications.



High Capacity Models:

- Same features as above with:
- CPVC lifing rods to remove a single stack of cartridges at one time.



HIF 7-100

Part Number	HIF7	HIF14	HIF16	HIF21	HIF24
Flow Rate (USGPM)	Up to 30	Up to 60	Up to 75	Up to 90	Up to 100
Flow Rate (LPM)	Up to 113	Up to 226	Up to 284	Up to 340	Up to 397
Flow Rate (M3HR)	Up to 7	Up to 14	Up to 16	Up to 21	Up to 24
# of Std Cartridges	7	14	16	21	24
Alternative cartridge	Single only	Doubles	Doubles	Triples	Triples
Pipe size	1 1/2" NPT	1 1/2" NPT	2" NPT	1 1/2" NPT	2" NPT
Filter Height	19.5"	28"	28"	37"	37"
Floor space required	13" x 13"	13" x 13"	13" x 13"	13" x 13"	13" x 13"
Service Height clearance	35"	48"	48"	68"	68"
Shipping weight	29 lbs.	39 lbs.	39 lbs.	50 lbs.	50 lbs.
Carton dimensions	14" x 14" x 21"	14" x 14" x 38"	14" x 14" x 38"	14" x 14" x 41"	14" x 14" x 41"
LIST PRICE cartridges not included	\$ 1852.50	2630.18	2869.29	3347.50	4125.18



HIF - FL Series

Part Number	HIF42	HIF75	HIF100	HIF150FL	HIF200FL
Flow Rate (USGPM)	Up to 175	Up to 300	Up to 400	Up to 600	Up to 800
Flow Rate (LPM)	Up to 662	Up to 1135	Up to 1514	Up to 2271	Up to 3028
Flow Rate (M3HR)	Up to 42	Up to 75	Up to 100	Up to 150	Up to 200
# of Std Cartridges	42	75	100	150	200
Alternative cartridge	Triples	Triples	Doubles	Triples	Doubles
Pipe size	2" NPT	3" NPT	3" NPT	4" flanged	4" flanged
Filter Height	40"	42"	52"	48"	58"
Floor space required	18" x 18"	20" x 20"	20" x 20"	28" x 28"	28" x 28"
Service Height clearance	68"	70"	87"	76"	93"
Shipping weight	100 lbs.	129 lbs.	188 lbs.	274 lbs.	321 lbs.
Carton dimensions	19" x 19" x 43"	23" x 23" x 53"	23" x 23" x 57"	28" x 28" x 49"	28" x 28" x 57"
LIST PRICE cartridges not included	\$ 7890.54	11238.04	14107.32	21758.75	24628.04

Recommended flow rates for guidelines only. Typical flow rates are 3 to 6 GPM per 9 3/4" cartridge. Standard Harmsco Up-Flow filter housings and filter cartridges rated for temperatures to 140°F (60°C) ratings based on pressure and time under load. All stainless filter housings and high temperature cartridges recommended for temperature over 140°F (60°C) to 200°F (93°C).



HUR-AP Series

Harmsco™ Hurricane Filters

It's a Separator & Cartridge Filter in One

Hurricane filters provide unsurpassed performance because they separate dense solids prior to cartridge filtration for extended filter life, increased dirt holding capacity and reduced maintenance costs. In many respects Hurricane filters are two filters in one. Components include outer chamber for particle separation, inner chamber for cartridge filtration and built-in drain for purge, if required.

Features:

- Outer chamber collects heavy solids at the bottom due to centrifugal force & rotational flow.
- Inner chamber filters liquid through a single cartridge. Liquid enters the filter tangentially to provide rotational flow and centrifugal force for partial separation. Liquid flows out of the filter through the standpipe and outlet fitting.
- Rotational flow pattern continuously "fluffs" filter cake to increase dirt and debris holding capacity to extend filter life and time between cleaning.
- In heavy solid applications, manual or automatic valves may be used to purge solids from the outer chamber. Tests demonstrate approximately half of the heavy solids, like sand, separate prior to the filtration chamber at 50 GPM.
- Constructed of low carbon 3/4 stainless steel for durability and long life.
- All stainless steel components are electro-polished for superior finish, resistance to corrosion & increased durability. (Special chemical resistant coatings available.)
- Fail safe lids with individual studs for optimum security. No v-clamps with only one bolt to secure lids.
- Bronze wing nuts are used so no tools are required. Finger tight is generally sufficient. Hex nuts are recommended with 75 ft-lbs. of torque above 100 psi.
- 90° elbow and 45° sweep on outlet for staggered in-line installation.
- CPVC standpipe for up-flow design.
- 1/4" couplers are installed in inlet and outlet fittings for pressure gauges.



Unlike conventional designs, Hurricane's patented cartridges are made with deep, angles pleats to direct the flow into the pleated area for increased solids removal.



Single "Jumbo" Cartridge Filter

Design of a single, jumbo cartridge is easy to install, remove, clean and replace. Hurricane Cartridges are cleanable and re-usable in most applications.



Part Number	HUR40HP	HUR90HP	HUR170HP
Flow Rate (USGPM)	Up to 50	Up to 100	Up to 150
Flow Rate (LPM)	Up to 189	Up to 378	Up to 568
Flow Rate (M3HR)	Up to 12	Up to 24	Up to 36
Pipe size (NPT)	2"	2"	2"
Drain (NPT)	1"	1"	1"
Filter Height	21"	31"	41"
Floor space required	15" x 15"	15" x 15"	15" x 15"
Service Height clearance	31"	51"	72"
Shipping weight	40 lbs.	51 lbs.	64 lbs.
LIST PRICE	\$ 3468.21	4125.18	6216.79
cartridges not included			



Harmsco® Filter Cartridges



801 Series

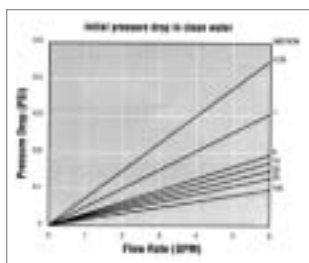
Genuine Harmsco® Filter Cartridge Features:

- Heavy duty filter applications.
- Pleated polyester design for more surface area, longer life.
- Six Sq Ft. of filtration, 50% more than the competition per 9 3/4".
- Thermally bonded construction with FDA listed materials.
- Color coded & branded end caps for easy micron identification.
- Cleanable, reusable in most applications.
- Low pressure drop.
- Individually wrapped.



Specifications:

Media: Polyester-Plus™
End Caps: Plastisol (pliable PVC)
Center tubes: Rigid PVC perforated
Surface Area: Approx 6 sq.ft. (9 3/4")
Temp limit: Up to 140° F depending on time & load
pH: 3-11
Flow rate: 3-6 GPM per 9 3/4"
Dimensions: 2 3/4" OD, 1 1/16" ID



Part Number	Micron Size	Cap Color	Length	Ctn Qty	List Price
801-0.35-W	0.35	Brown	9 3/4"	24	\$ 24.61
801-1-W	1	Tan	9 3/4"	24	17.99
801-5-W	5	White	9 3/4"	24	15.32
801-10-W	10	Red	9 3/4"	24	15.32
801-20-W	20	Blue	9 3/4"	24	15.32
801-50-W	50	Yellow	9 3/4"	24	15.32
801-100-W	100	Green	9 3/4"	24	15.32



HAC10W

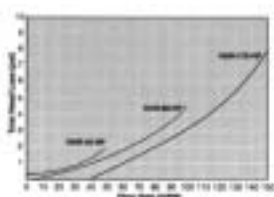
Genuine Harmsco® Activated Carbon Filter Cartridge Features:

- Composite of pulverized activated carbon & polyolefin fibers bonded together.
- 5 micron rating.
- Max temp 160° F.
- Substantially removes chlorine, organic chemicals, tastes and odors.
- Max capacity; 3000 gal.chlorine, 500 gal. organic chemicals.

Part Number	Micron Size	Length	Ctn Qty	List Price
HAC10W	5	9 3/4"	24	\$ 29.95



HC Series



Pressure drop shown above is for filter housing and 20 micron filter cartridge in clean water. Data developed by NSF International.

Genuine Hurricane Replacement Cartridge Features:

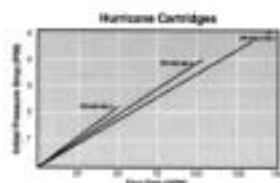
- Standard pleated polyester filter elements.
- Polyester-Plus™ filter media is cleanable and reusable in most applications.
- Rated to 140° F
- Rated to 50 psi.
- Separates solids in liquids with pH of 3 to 11.
- Cartridge OD 7 3/4", ID 3" FPT
- Packaged one per carton.



Part Number	Micron Size	Length	Ctn Qty	List Price
HUR40HP Replacement Cartridges				
HC40-0.35	0.35	9 5/8"	1	\$243.98
HC40-1	1	9 5/8"	1	203.24
HC40-5	5	9 5/8"	1	179.33
HC40-20	20	9 5/8"	1	179.33
HUR90HP Replacement Cartridges				
HC90-0.35	0.35	19 1/2"	1	387.45
HC90-5	5	19 1/2"	1	246.30
HC90-20	20	19 1/2"	1	246.30
HC90-50	50	19 1/2"	1	246.30
HC90-100	100	19 1/2"	1	246.30
HUR170HP Replacement Cartridges				
HC170-0.35	0.35	30 3/4"	1	
HC170-1	1	30 3/4"	1	487.73
HC170-5	5	30 3/4"	1	432.27
HC170-20	20	30 3/4"	1	432.27



PHHC Series



Data include cartridge and Hurricane filter housing.

Genuine Hurricane Poly-Pleat™ Replacement Cartridge Features:

- Designed for drinking water applications to remove cryptosporidium and Giardia Cysts.
- Rated to 140° F
- Polypropylene filter media offers compatibility with many aggressive chemicals.
- Cartridge OD 7 3/4", ID 3" FPT.
- Individually wrapped.

Part Number	Micron Size	Length	Ctn Qty	List Price
PPHC40-1	1 absolute	9 5/8"	1	\$ 375.38
PPHC90-1	1 absolute	19 1/2"	1	561.90



Vu-Flow Screen Filters



Vu-Flow Filter Features:

- Easy installation on suction or discharge side of pump.
- Filtered material collects on the outside of the screen, making it easy to clean.
- Clear polycarbonate housing permits instant visual inspection.
- Molded PVC filter body allows glue together installation similar to standard PVC pipe fittings.
- Molded from UV stabilized weather resistant materials for long service life.
- Most models have 1/2" MNPT cover drain outlet for quick one step purge cleaning.
- Inlet and outlet slip can be bushed to fit required pipe size.
- Polyester screens are easily cleaned and re-used eliminating expensive replacement.
- Stainless steel screens are available special order..
- Maximum operating pressure: 150 psi @ 73°F.
- Flow rates from 1-100 gallons per minute.
- Screen mesh sizes smaller than 250 (61 microns) are supported with No. 30 mesh to assure durability.

• WATER USE ONLY

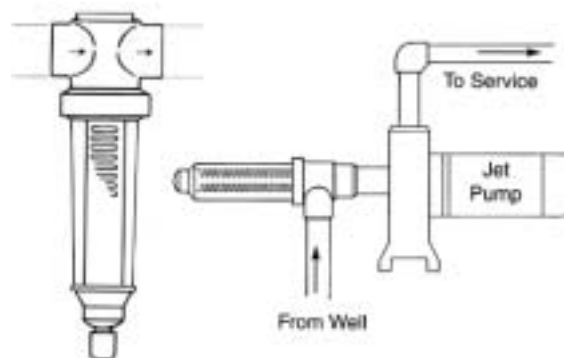
EQUIVALENCY CHART

MESH	MICRONS	INCHES
24	711	0.028
* 30	533	0.021
40	381	0.015
* 60	254	0.010
* 100	152	0.006
* 140	104	0.004
250	61	0.0024
500	30	0.0012
1000	15	0.0006

* Also available with stainless steel by special order

INSTALLATION

- Install on suction or discharge side of system.
- Install on discharge to allow use of purge valve for easy one step purge cleaning. * Do not install filters with purge valves on suction side of pump.
- Manifold two or more filters for applications with flow rates higher than 100 GPM.
- Hand tighten only - Use of tools voids warranty



Vu-Flow Screen Filters

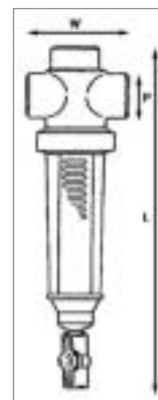
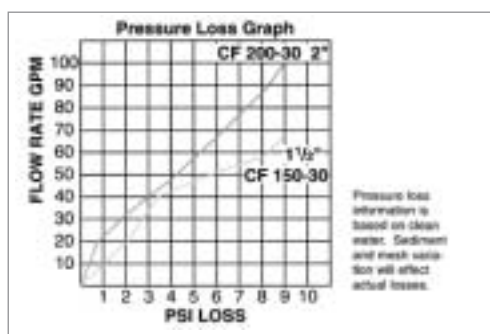


CF Series

Combination Style Screen Filter Features:

- Installs as a 90° "L" or 180° in-line "T" installation.
- 10-100 GPM models.
- 1-1/4" plug (supplied) adds versatility to unused outlet.
- Maximum pressure: 150 PSI @ 73°F.
- 1/2" MPT drain cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

• WATER USE ONLY



Part Number	Inlet/Outlet "P" Slip x Slip x Slip	Mesh # and Size	Mesh # Opening	Min*/Max Flow GPM	"L"	"W"	List Price w/ Purge Valve
CF150-24P	1 1/2"	24 (711 mic)	0.028	10-50	16 5/8"	5 1/4"	\$ 115.26
CF150-40P	1 1/2"	40 (381 mic)	0.015	10-50	16 5/8"	5 1/4"	115.26
CF150-60P	1 1/2"	60 (254 mic)	0.0100	10-50	16 5/8"	5 1/4"	121.16
CF150-100P	1 1/2"	100 (152 mic)	0.006	10-50	16 5/8"	5 1/4"	121.16
CF150-140P	1 1/2"	140 (104 mic)	0.004	10-50	16 5/8"	5 1/4"	121.16
CF150-250P	1 1/2"	250 (61 mic)	0.0024	10-50	16 5/8"	5 1/4"	124.62
CF150-500P	1 1/2"	500 (30 mic)	0.0012	10-50	16 5/8"	5 1/4"	124.62
CF150-1000P	1 1/2"	1000 (15 mic)	0.0006	10-50	16 5/8"	5 1/4"	124.62
CF200-24P	2"	24 (711 mic)	0.028	18-100	18 7/8"	5 1/2"	187.56
CF200-40P	2"	40 (381 mic)	0.015	18-100	18 7/8"	5 1/2"	187.56
CF200-60P	2"	60 (254 mic)	0.0100	18-100	18 7/8"	5 1/2"	192.45
CF200-100P	2"	100 (152 mic)	0.006	18-100	18 7/8"	5 1/2"	192.45
CF200-140P	2"	140 (104 mic)	0.004	18-100	18 7/8"	5 1/2"	192.45
CF200-250P	2"	250 (61 mic)	0.0024	18-100	18 7/8"	5 1/2"	199.29
CF200-500P	2"	500 (30 mic)	0.0012	18-100	18 7/8"	5 1/2"	199.29

• Do not use metal valve or fitting on 1/2" drain connection.
 • Do not install filters with purge valve on suction side of pump.
 * Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products



Vu-Flow Screen Filters

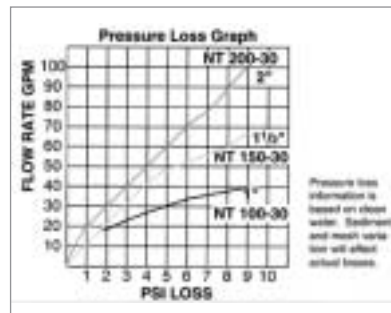


NT Series

T Style Screen Filter Features:

- 180° in-line "T" style installation.
- 1-100 GPM models.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

- **WATER USE ONLY**



Part Number	Inlet/Outlet "P"	Mesh # & Size Male Thread	Mesh Opening	Min*/Max Flow GPM	"L"	"W"	List Price
IPS x IPS							
NT75-24P	3/4" x 3/4"	24 (711 mic)	0.028	1-25	11 3/8"	5"	\$ 79.23
NT75-60P	3/4" x 3/4"	60 (254 mic)	0.010	1-25	11 3/8"	5"	80.16
NT75-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	11 3/8"	5"	80.16
NT75-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	11 3/8"	5"	80.16
NT75-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	11 3/8"	5"	83.11
NT75-500P	3/4" x 3/4"	500 (30 mic)	0.0012	1-25	11 3/8"	5"	83.11
Slip x Slip							
NT100-24P	1" x 1"	24 (711 mic)	0.028	1-25	11 3/8"	5"	79.23
NT100-30P	1" x 1"	30 (533 mic)	0.021	1-25	11 3/8"	5"	79.23
NT100-40P	1" x 1"	40 (381 mic)	0.015	1-25	11 3/8"	5"	79.23
NT100-60P	1" x 1"	60 (254 mic)	0.01	1-25	11 3/8"	5"	80.16
NT100-100P	1" x 1"	100 (152 mic)	0.006	1-25	11 3/8"	5"	80.16
NT100-140P	1" x 1"	140 (104 mic)	0.004	1-25	11 3/8"	5"	80.16
NT100-250P	1" x 1"	250 (61 mic)	0.0024	1-25	11 3/8"	5"	83.11
NT100-500P	1" x 1"	500 (30 mic)	0.0012	1-25	11 3/8"	5"	83.11
NT100-1000P	1" x 1"	1000 (15 mic)	0.0006	1-25	11 3/8"	5"	83.11
Slip x Slip							
NT150-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"	105.04
NT150-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"	105.04
NT150-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"	105.04
NT150-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"	109.01
NT150-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"	109.01
NT150-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"	109.01
NT150-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"	112.90
NT150-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"	112.90
NT150-1000P	1-1/2" x 1-1/2"	1000 (15 mic)	0.0006	10-50	15 3/8"	5 1/4"	112.90
Slip x Slip							
NT200-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"	171.02
NT200-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"	171.02
NT200-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"	175.33
NT200-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"	175.33
NT200-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"	175.33
NT200-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"	181.16
NT200-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"	181.16
NT200-1000P	2" x 2"	1000 (15 mic)	0.0006	18-100	17 7/8"	5 1/2"	181.16

* Minimum flow needed for "spin-out" action.

- Do not install filters with purge valve on suction side of pump.

Carton Quantity of 10 for all products



TM

In the United States:
In Canada:

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Phone (866) 503-5523

www.americangranby.com

Fax (800) 729-3299
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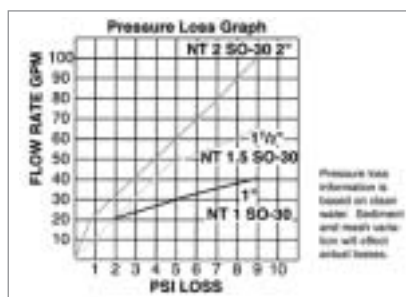
Vu-Flow Screen Filters



NT SO Series

T Style Sand Separator Filter Features:

- 180° in-line "T" style.
- 1-100 GPM models
- "Spin-out" action separates heavier than water particles away from screen into the collection chamber.
- Screen portion of element removes lighter than water particles.
- Extended sump provides greater collection area for sediment.
- Supplied with a 1/2" cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.



Part Number	Inlet/Outlet "P"	Mesh # & Size Male Thread	Mesh Opening	Min*/Max Flow GPM	"L"	"W"	List Price w/ Purge Valve
IPS x IPS (Male Thread 3/4" only)							
NT75SO-60P	3/4" x 3/4"	60 (254 mic)	0.01	1-25	14 3/8"	5	\$ 104.54
NT75SO-100P	3/4" x 3/4"	100 (152 mic)	0.006	1-25	14 3/8"	5	104.54
NT75SO-140P	3/4" x 3/4"	140 (104 mic)	0.004	1-25	14 3/8"	5	104.54
NT75SO-250P	3/4" x 3/4"	250 (61 mic)	0.0024	1-25	14 3/8"	5	108.42
Slip x Slip							
NT1SO-60P	1" x 1"	60 (254 mic)	0.01	1-25	14 3/8"	5	104.54
NT1SO-100P	1" x 1"	100 (254 mic)	0.006	1-25	14 3/8"	5	104.54
NT1SO-140P	1" x 1"	140 (104 mic)	0.004	1-25	14 3/8"	5	104.54
NT1SO-250P	1" x 1"	250 (61 mic)	0.0024	1-25	14 3/8"	5	108.42
Slip x Slip							
NT1.5SO-24P	1-1/2" x 1-1/2"	24 (711 mic)	0.028	10-50	15 3/8"	5 1/4"	126.99
NT1.5SO-30P	1-1/2" x 1-1/2"	30 (533 mic)	0.021	10-50	15 3/8"	5 1/4"	126.99
NT1.5SO-40P	1-1/2" x 1-1/2"	40 (384 mic)	0.015	10-50	15 3/8"	5 1/4"	126.99
NT1.5SO-60P	1-1/2" x 1-1/2"	60 (254 mic)	0.010	10-50	15 3/8"	5 1/4"	130.86
NT1.5SO-100P	1-1/2" x 1-1/2"	100 (152 mic)	0.006	10-50	15 3/8"	5 1/4"	130.86
NT1.5SO-140P	1-1/2" x 1-1/2"	140 (104 mic)	0.004	10-50	15 3/8"	5 1/4"	130.86
NT1.5SO-250P	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	10-50	15 3/8"	5 1/4"	135.85
NT1.5SO-500P	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	10-50	15 3/8"	5 1/4"	135.85
Slip x Slip							
NT2SO-24P	2" x 2"	24 (711 mic)	0.028	18-100	17 7/8"	5 1/2"	196.42
NT2SO-30P	2" x 2"	30 (533 mic)	0.021	18-100	17 7/8"	5 1/2"	196.42
NT2SO-40P	2" x 2"	40 (384 mic)	0.015	18-100	17 7/8"	5 1/2"	196.42
NT2SO-60P	2" x 2"	60 (254 mic)	0.010	18-100	17 7/8"	5 1/2"	199.80
NT2SO-100P	2" x 2"	100 (152 mic)	0.006	18-100	17 7/8"	5 1/2"	199.80
NT2SO-140P	2" x 2"	140 (104 mic)	0.004	18-100	17 7/8"	5 1/2"	199.80
NT2SO-250P	2" x 2"	250 (61 mic)	0.0024	18-100	17 7/8"	5 1/2"	204.70
NT2SO-500P	2" x 2"	500 (30 mic)	0.0012	18-100	17 7/8"	5 1/2"	204.70

• Do not use metal valve or fitting on 1/2" drain connections

• Do not install filters with purge valves on the suction side of pump

* Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products



Vu-Flow Screen Filters

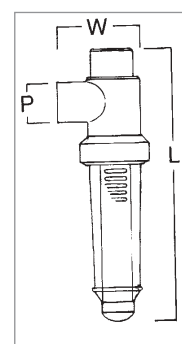
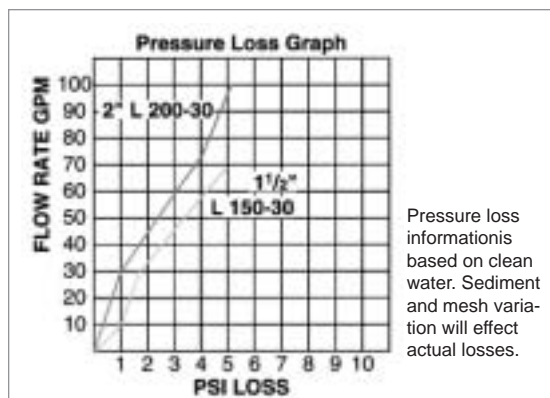


L Series

L Style Screen Filter Features:

- 90° "L" style installation.
- Install on suction or discharge side of pump.
- 0-100 GPM models.
- 1/2" MPT drain cleanout is not available on this model.
- Maximum pressure: 150 PSI @ 73°F.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.

• WATER USE ONLY



Part Number	Inlet/Outlet "P" Slip	Mesh # and Size	Mesh Opening	Normal Flow GPM	"L"	"W"	List Price
L150-24	1-1/2" x 1-1/2"	24 (711 mic)	0.028	0-50	12	4-1/2"	\$109.43
L150-30	1-1/2" x 1-1/2"	30 (533 mic)	0.021	0-50	12	4-1/2"	109.43
L150-60	1-1/2" x 1-1/2"	60 (254 mic)	0.010	0-50	12	4-1/2"	113.82
L150-100	1-1/2" x 1-1/2"	100 (152 mic)	0.006	0-50	12	4-1/2"	113.82
L150-250	1-1/2" x 1-1/2"	250 (61 mic)	0.0024	0-50	12	4-1/2"	118.29
L150-500	1-1/2" x 1-1/2"	500 (30 mic)	0.0012	0-50	12	4-1/2"	118.29
L200-24	2" x 2"	24 (711 mic)	0.028	0-100	18	5 1/2"	178.79
L200-30	2" x 2"	30 (533 mic)	0.021	0-100	18	5 1/2"	178.79
L200-60	2" x 2"	60 (254 mic)	0.010	0-100	18	5 1/2"	184.11
L200-100	2" x 2"	100 (152 mic)	0.006	0-100	18	5 1/2"	184.11
L200-250	2" x 2"	250 (61 mic)	0.0024	0-100	18	5 1/2"	190.52
L200-500	2" x 2"	500 (30 mic)	0.0012	0-100	18	5 1/2"	190.52

"L" Style filters do not use purge valves.

Carton Quantity of 10 for all products

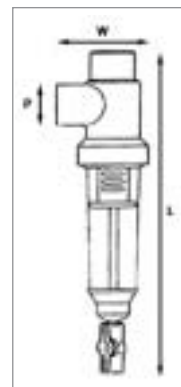
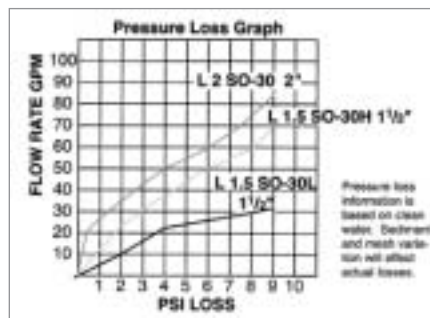
Vu-Flow Screen Filters



L SO Series

L Style Sand Separator Filter Features:

- 90° "L" style installation.
- "Spin out action" separates heavier than water particles away from the screen into the collection chamber.
- 5-90 GPM
- Screen portion of element removes lighter than water elements.
- Available in 5-20, 15-40 and 5-90 GPM models. (A minimum flow rate of 5 GPM is required to operate the filter).
- Extended sump provides greater collection area for sediment.
- 1/2" MPT cleanout with purge valve.
- Supplied with polyester filter screen.
- Also available with stainless steel screen as special order.
- Available in Low Flow(LF) or High Flow(HF) models.
- **WATER USE ONLY**



Part Number	Inlet/Outlet Slip x Slip "P"	Mesh # and Size	Mesh Opening	Min*/Max GPM	"L"	"W"	List Price w/ Purge Valve
L1.5SO-60LFP	1-1/2"	60 (254 mic)	0.01	5-20	14 7/8"	4-1/2"	\$ 137.28
L1.5SO-60HFP	1-1/2"	60 (254 mic)	0.01	15-40	14 7/8"	4-1/2"	137.28
L1.5SO-100LFP	1-1/2"	100 (152 mic)	0.006	5-20	14 7/8"	4-1/2"	137.28
L1.5SO-100HFP	1-1/2"	100 (152 mic)	0.006	15-40	14 7/8"	4-1/2"	137.28
L1.5SO-140LFP	1-1/2"	140 (104 mic)	0.004	5-20	14 7/8"	4-1/2"	137.28
L1.5SO-140HFP	1-1/2"	140 (104 mic)	0.004	15-40	14 7/8"	4-1/2"	137.28
L1.5SO-250LFP	1-1/2"	250 (61 mic)	0.0024	5-20	14 7/8"	4-1/2"	142.67
L1.5SO-250HFP	1-1/2"	250 (61 mic)	0.0024	15-40	14 7/8"	4-1/2"	142.67
L1.5SO-500LFP	1-1/2"	500 (30 mic)	0.0012	5-20	14 7/8"	4-1/2"	142.67
L1.5SO-500HFP	1-1/2"	500 (30 mic)	0.0012	15-40	14 7/8"	4-1/2"	142.67
L2SO-60P	2"	60 (254 mic)	0.01	35-90	20 7/8"	5-1/2"	209.51
L2SO-100P	2"	100 (152 mic)	0.006	35-90	20 7/8"	5-1/2"	209.51
L2SO-140P	2"	140 (104 mic)	0.004	35-90	20 7/8"	5-1/2"	209.51
L2SO-250P	2"	250 (61 mic)	0.0024	35-90	20 7/8"	5-1/2"	214.98

- Do not use metal valve or fitting on 1/2" drain connection
- Do not install filters with purge valves on the suction side of pump
- LF suffix denotes low flow, HF suffix denotes high flow.
- * Minimum flow needed for "spin-out" action.

Carton Quantity of 10 for all products



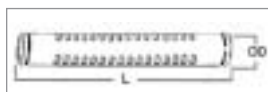
Vu-Flow Replacement Screens



REPLACEMENT SCREENS FOR FILTERS



NT Screen	L	OD
NT30	5 1/8	1 1/8
NT60	8 1/8	1 5/8
NT120	10	1 7/8

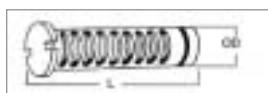


L Screen	L	OD
L60	9 7/8	1 5/8
L120	14 7/8	1 7/8

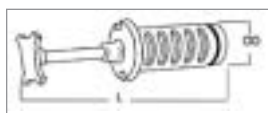
3/4" & 1" NT Filters		1-1/2" NT or Combo Filters		2" NT or Combo Filters	
Part No.	List Price	Part No.	List Price	Part No.	List Price
NT30SC24	\$ 19.07	NT60SC24	\$ 31.30	NT120SC24	\$ 52.73
NT30SC30	19.07	NT60SC30	31.30	NT120SC30	52.73
NT30SC40	19.07	NT60SC40	31.30	NT120SC40	52.73
NT30SC60	19.57	NT60SC60	34.26	NT120SC60	56.62
NT30SC100	19.57	NT60SC100	34.26	NT120SC100	56.62
NT30SC140	19.57	NT60SC140	34.26	NT120SC140	56.62
NT30SC250	22.10	NT60SC250	38.22	NT120SC250	62.61
NT30SC500	22.10	NT60SC500	38.22	NT120SC500	62.61
NT30SC1000	22.10	NT60SC1000	38.22	NT120SC1000	62.61

1-1/2" L Filters		2" L Filters	
Part No.	List Price	Part No.	List Price
L60SC24	\$ 32.82	L120SC24	\$ 54.76
L60SC30	32.82	L120SC30	54.76
L60SC40	32.82	L120SC40	54.76
L60SC60	36.19	L120SC60	59.15
L60SC100	36.19	L120SC100	59.15
L60SC140	36.19	L120SC140	59.15
L60SC250	39.57	L120SC250	65.48
L60SC500	39.57	L120SC500	65.48
L60SC1000	39.57	L120SC1000	65.48

REPLACEMENT SCREENS FOR SAND SEPARATORS



NT Screen	L	OD
NT1SC	5 1/4	1 1/8



NT Screen	L	OD
NT1.5SC	8 1/8	1 5/8
NT2SC	10	1 7/8



L Screen	L	OD
L1.5SC	10	1 5/8
L2SC	13 3/4	1 7/8

3/4" & 1" NT Sand Separators		1-1/2" NT Sand Separators		2" NT Sand Separators	
Part No.	List Price	Part No.	List Price	Part No.	List Price
NT1SC24	\$ 22.10	NT1.5SC24	\$ 54.67	NT2SC24	\$ 76.19
NT1SC30	22.10	NT1.5SC30	54.67	NT2SC30	76.19
NT1SC40	22.10	NT1.5SC40	54.67	NT2SC40	76.19
NT1SC60	23.04	NT1.5SC60	55.78	NT2SC60	78.13
NT1SC100	23.04	NT1.5SC100	55.78	NT2SC100	78.13
NT1SC140	23.04	NT1.5SC140	55.78	NT2SC140	78.13
NT1SC250	24.47	NT1.5SC250	58.14	NT2SC250	81.17
NT1SC500	24.47	NT1.5SC500	58.14	NT2SC500	81.17
NT1SC1000	24.47	NT1.5SC1000	58.14	NT2SC1000	81.17

1-1/2" L Sand Separators		2" L Sand Separators	
Part No.	List Price	Part No.	List Price
L1.5SC24	\$ 57.71	L2SC24	\$ 79.65
L1.5SC30	57.71	L2SC30	79.65
L1.5SC40	57.71	L2SC40	79.65
L1.5SC60	58.14	L2SC60	81.60
L1.5SC100	58.14	L2SC100	81.60
L1.5SC140	58.14	L2SC140	84.60
L1.5SC250	60.67	L2SC250	85.05
L1.5SC500	60.67	L2SC500	85.05
L1.5SC1000	60.67	L2SC1000	85.05

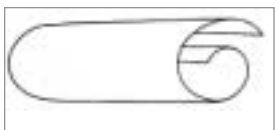
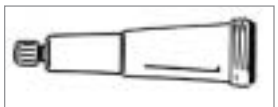
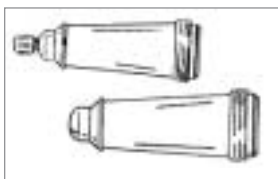
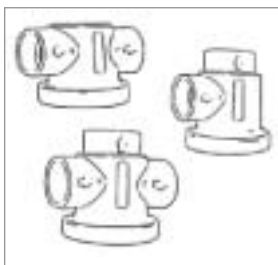
Vu-Flow Strainers & Replacement Parts



4BSK Series

Basket Strainer Features:

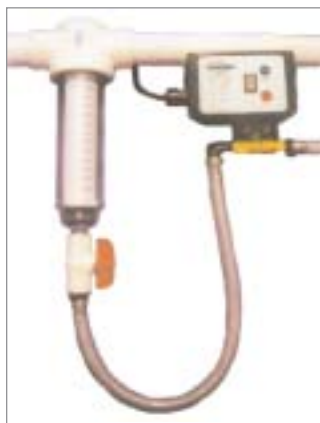
- Intake screen for lakes or ponds
- High volume capacity, up to 100 GPM.
- Three mesh sizes.
- All PVC construction with easy clean nylon screen.
- Debris accumulates on outside of strainer screen.
- 2" IPS female inlet slip fittings.



Part Number	Description	Ctn Qty	List Price
Basket Strainers			
4BSK24	2"x 4"x 24", 24 Mesh Nylon Screen	10	\$ 87.50
4BSK60	2"x 4"x 24", 60 Mesh Nylon Screen	10	90.96
4BSK100	2"x 4"x 24", 100 Mesh Nylon Screen	10	94.42
4BSK250	2"x 4"x 24", 250 Mesh Nylon Screen	10	97.97
Filter Bodies (HEADS) Male Threads			
NT30B	1" NT Screen & NT Separator	1	38.64
NT60B	1-1/2" NT Screen & NT Separator	1	52.31
NT120B	2" NT Screen & NT Separator	1	63.54
CF60B	1-1/2" Combo Screen & Separator	1	62.61
CF120B	2" Combo Screen & Separator	1	79.23
L60B	1-1/2" L Screen	1	54.67
L120B	2" L Screen	1	66.91
L1.5BL	1-1/2" L Separator Low Flow	1	60.67
L1.5BH	1-1/2" L Separator High Flow	1	60.67
L2B	2" L Separator	1	74.68
Screen Filter Covers (CLEAR SUMPS)			
NT30C	1" & 3/4" NT & Combo Style	1	39.07
NT60C	1-1/2" NT & Combo Style	1	58.64
NT120C	2" NT & Combo Style - CLEAR	1	70.37
NT120W	2" NT & Combo Style - WHITE	1	68.79
L60C	1-1/2" L Style (not for use with NT60B)	1	59.65
L120C	2" L Style with 1/2" nipple on cover	1	63.55
Separator Filter Covers (CLEAR SUMPS)			
NT1C	1" NT, Combo & L Style	1	54.25
NT1.5C	1-1/2" NT, Combo & L Style	1	55.78
"O" Ring Kits Separator & Screen Filter			
NT30S	1" NT & Combo Style	1	3.63
NT60S	1-1/2" NT & Combo Style	1	4.22
NT120S	2" NT & Combo Style	1	4.73
L60S	1-1/2" L Style	1	4.22
L120S	2" L Style	1	4.73
Purge Valve			
PV	Purge Valve, All Filter Models	1	16.71
Cover Guard			
CG100	Black Filter Protector, 1"	1	8.86
CG150	Black Filter Protector, 1-1/2"	1	11.73
CG200	Black Filter Protector, 2"	1	13.67



Automatic Flush Valve



AFV Series

Automatic Flush Valve Specifications:

- Adjustable cycle time 5 min - 24 hours
- Working Pressure 200 PSIG
- Ambient Temperature 25° F to 165° F
- Enclosure Nema 4
- Voltage 115V, 1 Phase, 60 Hz
- Current 2.5 Amps
- Valve Construction Brass
- Seals Reinforced Teflon
- Discharge Volume 1/2" NPT-.92
(Gal per cycle @ 30 PSIG)
- Power Cord 8' heavy duty grounded
- Full Port Ball Valve 1/2" NPT
- Discharge Time 3.5 seconds
(Non-adjustable)



Automatic Flush Valve Kit Includes:

- (2) 1/2" barb x 1/2" NPT male hose fittings
- (2) SAE size 8 SS worm drive clamps
- (24") 1/2" braid reinforced flexible PVC tubing. (Rated at 215 psi)

KIT DOES NOT INCLUDE FILTER OR AUTOMATIC FLUSH VALVE.

Please Note: TO insure optimum performance of automatic flush valve, it is recommended that you use the above rated tubing only.

Part Number	Description	Ctn Qty	List Price
AFV	Automatic Flush Valve	1	\$ 682.14
AFV-KIT	Automatic Flush Valve Kit	1	40.18





Ultraviolet Disinfection Systems

Ultraviolet disinfection is an effective way to provide bacteria free water for home or industry.



UVSL Series

- Completely automatic.
- Compact and easy to install.
- No chemicals required.
- Low operating costs.
- Low maintenance.
- No taste or odor.



SAFE LITE Economy Series UV Disinfection System Features:

- Quick installation.
- Economical.
- 304 stainless steel chamber. Electropolished.
- Powered by wall mounted ballast with lamp on indicator.
- 8 gallon complete with flow control.



UV, UV-SE &
UV-W Series

Standard Series UV Disinfection System Features: UV Series:

- Constructed for wall mounting.
- 304 stainless steel chamber. Electropolished.
- Sight port to safely view operation.
- 7 & 15 gallon complete with flow control.
- CSA approved.

UV-W Series:

- Same as UV series with:
- Internal wiper unit for manual cleaning of quartz sleeve.
- 8 & 15 gallon complete with flow control.

UV-SE Series:

- Same as UV series with:
- 7 & 15 gallon complete with flow control. Remote flow control adder for 24 gallon (not included)
- Electronic "lamp-out" circuit/alarm.
- ON/OFF indicator light.
- Standard auxillary output terminal for optional solenoid shut-off (UVS077 not included).
- CSA pending



UVC Series

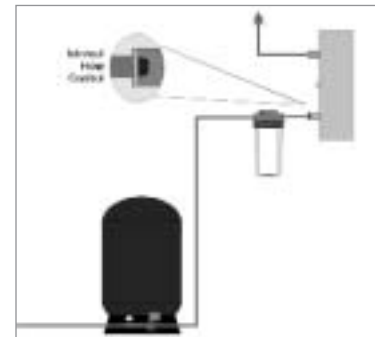
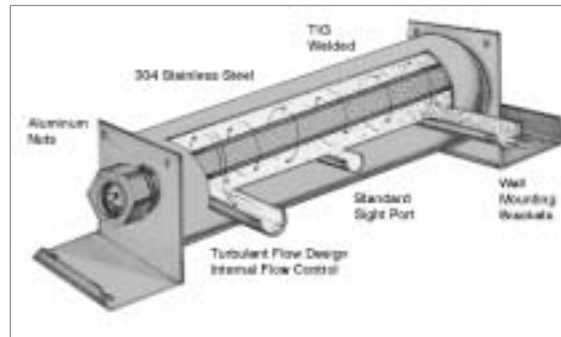
Commercial Series UV Disinfection System Features:

- 304 stainless steel chamber. Electropolished.
- NEMA 12 Enclosure.
- Running time meter.
- ON/OFF power switch.
- Simple design.

Ultraviolet Disinfection Systems



Water entering the disinfection unit flows in the space between the quartz sleeve and the chamber wall. Turbulent flow through the unit insures exposure of micro-organisms to lethal dosages of ultraviolet rays. Water exiting the chamber is safe and ready to use.



Typical Installation

Part Number	Max GPM	# of Lamps	KW @ 120V	AMPS @ 120V 220V	Pipe Size	Dimensions LxWxD	Weight	Flow Control	Lamp Out Alarm	List Price
Safe Lite Economy Series										
UVSL8	8	1	0.07	.60 .30	3/4" MIP	18"x4"x7"	28	Yes	No	662.86
Standard Series										
UV7	7	1	0.07	.60 .30	3/4" MIP	18"x4"x7"	19	Yes	No	995.71
UV15	15	1	0.07	.60 .30	3/4" MIP	36"x4"x7"	28	Yes	No	1,252.86
UV24	24	2	0.16	1.30 .60	1 1/2" FIP	36"x10"x7"	50	No	No	2,285.71
Standard Series w/ Lamp out alarm										
UV7SE	7	1	0.07	.60 .30	3/4" MIP	18"x4"x7"	19	Yes	Yes	1,014.29
UV15SE	15	1	0.07	.60 .30	3/4" MIP	36"x4"x7"	28	Yes	Yes	1,270.00
UV24SE	24	2	0.16	1.30 1.30	1 1/2" FIP	36"x10"x7"	50	Yes	Yes	2,320.00
Lamp out circuit board provides a visual and audible alarm when a lamp outage occurs. Solenoid protection can be added via the on-board relay and the purchase of an UVS077 Solenoid. 220V 50Hz less power cord net adder \$ 35.72. Not available on SE series. Non standard porting net adder \$ 71.43										
Standard Series w/ Internal wiper*										
UV8W	8	1	0.07	.60 .30	3/4" MIP	18"x4"x7"	25	Yes	No	1,317.14
UV15W	15	1	0.07	.60 .30	3/4" MIP	36"x4"x7"	34	Yes	No	1,704.29
UV24W	24	2	0.16	1.30 .60	1 1/2" FIP	36"x10"x7"	55	No	No	3,151.43
Commercial Series*										
UVC48	48	4	0.24	2.00 1.00	1 1/2" FIP	34"x10"x10"	60	No	No	7,210.00
UVC60	60	6	0.36	3.00 1.50	2" Flange	35"x12"x15"	105	No	No	8,681.43
UVC80	80	4	0.38	3.20 1.70	2" Flange	64"x10"x22"	124	No	No	9,858.57
UVC130	130	6	0.60	4.80 2.60	3" Flange	64"x12"x22"	185	No	No	13,978.57
Note: Electrical box dimensions are 20" x 16" for UVC48, 60 and 24"x20" for UVC80, 130.										

* Check with AGI for delivery lead time on UV-W and UVC series



Ultraviolet Disinfection Parts



UVD1



UVD2



UVM254

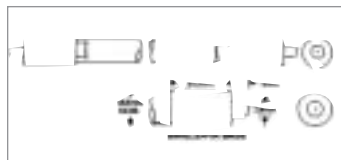


UVS077

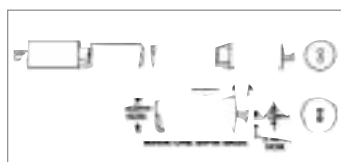


UVSE255

Part Number	Description	For Use With Series	List Price
Accessories			
UVD1	ON/OFF indicator w/ alarm	UV, UV-W	\$ 124.14
UVD2	ON/OFF light w/ alarm & solenoid relay for optional UVS077	UV, UV-W	398.57
UVM254	UV Dosage meter w/ alarm	UV, UV-W	1,695.71
UVM2542	UV Dosage meter w/ alarm , 220V 50HZ	UV, UV-W, UVC	1,868.57
UVSE255	"Lamp-out" circuit board w/ alarm	UV-SE	72.86
UVT256	Thermo tech temp regulator w/ solenoid	All models	1,071.43
UVS077	Shut-Off Solenoid 1" FNPT, use w/ UVM254, UVD2, Specify when ordering	UV, UV-W, UV-SE, UVC	230.00
Maintenance & Repair Parts			
UVP4020	Wire w/ poly end socket & quartz plug kit (old)	UV	10.71
UVP4025	Brass end nut assembly - complete (new)	All models	75.00
UVP5177	Standard lens kit	UV, UVC	41.33
UVP5174	Monitor probe		909.19
UVP5175	Monitor lens kit		44.39
UVP8544	O-ring - Standard for end nut		1.81
UVB8222	Ballast - (120V, 60 Hz)	UV7, UV7SE	116.16
UVP8224	Ballast - (120V, 60Hz)	UV15, UV15SE	116.16
UVP8225	Ballast - (120V, 60Hz)	UV24, 48, 60	123.98
		UV24SE, 48SE, 60SE	
UVP7600	Plastic sight lens	UV-SE	1.53
Service Kits - Include bulb, quartz sleeve, o-rings and small tube of silicone.			
Recommended 1 per year.			
UVK07	Includes (1) UVB1805 bulb, (1) UVQS6211 sleeve, (2) UVP8544 o-rings	UV7, UV7SE	117.14
UVK015	Includes (1) UVB8246 bulb, (1) UVQS6608 sleeve, (2) UVP8544 o-rings	All 15 models	160.00
UVK024	Includes (2) UVB8246 bulb, (2) UVQS6608 sleeve, (4) UVP8544 o-rings	All 24 models	342.86
Flow Controls - Use to control service flow rate for unit design.			
UVFCF07	7 GPM FLO-ET	UV7, UV7SE	3.06
UVFCF08	8 GPM FLO-ET	UVSL8	3.06
UVFCF15	15 GPM FLO-ET	UV15, UV15SE, UV15W	6.12
UVFCR01	3/4" Flow-ET Retainer 6-8 GPM	UV, UV-SE, UVSL	6.12
UVFCR02	3/4" Flow-ET Retainer 12-15 GPM	UV, UV-SE	6.12
V7A151C124	24 GPM Remote Flow Control - 1.5 FIP		94.89
V7A201C148	48 GPM Remote Flow Control - 1.5 FIP		133.16
V7A209C160	60 GPM Remote Flow Control - 2.0 flange		310.71
V7A252C180	80 GPM Remote Flow Control - 2.0 flange		454.59
V7A309C1130	130 GPM Remote Flow Control - 3.0 flange		544.90



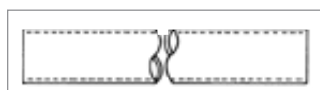
UVB Series - 1 pin each end



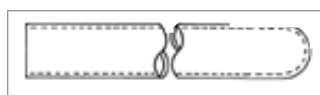
UVB Series - 2 pins each end



UVB Series - 4 pins one end



UVQS Series



UVQS-D Series

Part Number	Bulb Length	Description	For Use With Series	List Price
UV Bulbs				
UVB1805	14"	1 pin each end	UV7, UV7SE	\$ 100.07
UVB1805VH*	14"	1 pin each end		116.03
UVB1814	27.3"	1 pin each end		116.03
UVB8246	33.2"	1 pin each end	All 15 & 24 models	116.03
UVB8246VH*	33.2"	1 pin each end	Spec applications	116.03
UVB11149	45.88"	1 pin each end		116.03
UVB11550	61.2"	1 pin each end	UVC80 & 130 bulb	182.14
UVB8T5	13"	2 pins each end		123.98
UVB2330	13"	2 pins each end		123.98
UVB2436	17"	2 pins each end		123.98
UVB2457	18"	2 pins each end		123.98
FG25T8	18"	2 pins each end (1" dia)		123.98
UVB2793	31.34"	2 pins each end		123.98
FG30T8	35.75"	2 pins each end (1" dia)		123.98
UVB21175	46.25"	2 pins each end		728.57
ATCL100	10.5"	4 pins one end, Integrated cell lamp 1 GPM		148.47
UVB4287	11.3"	4 pins one end		116.03
UVB4330	13"	4 pins one end		116.03
UVB4357	14.5"	4 pins one end		116.03
UVB4409	16"	4 pins one end		116.03
UVB4436	17"	4 pins one end		116.03
UVB4450	17.71"	4 pins one end		116.03
UVB4739	29"	4 pins one end		116.03
UVB4793	31.34"	4 pins one end		116.03
UVB4810	32"	4 pins one end		116.03
UVB4854	33.2"	4 pins one end		116.03
UVB4854VH*	33.2"	4 pins one end		133.16
*VH = 185NM Very high ozone output				
Bulb length is from end to end excluding pin connection.				
Quartz Sleeves - Open Ends (22 mm ID, 24.5mm OD)				
UVQS6211	14.37"	Quartz Sleeve	UV7, UV7SE	38.26
UVQS1483	19"	Quartz Sleeve		45.92
UVQS6805	31.7"	Quartz Sleeve		78.06
UVQS1808	32.75"	Quartz Sleeve		75.00
UVQS6608	32.62"	Quartz Sleeve	All 15, 24, 48, 60	78.06
UVQS1575	62"	Quartz Sleeve	UVC80 & 130	159.18
Quartz Sleeves - Domed Ends (22 mm ID, 24.5mm OD)				
UVQS1328D	13"	Dome End Quartz Sleeve		78.06
UVQS349D	13.75"	Dome End Quartz Sleeve		78.06
UVQS1435D	17"	Dome End Quartz Sleeve		78.06
UVQS476D	19"	Dome End Quartz Sleeve	SL5, SL8	78.29
UVQS1759D	30"	Dome End Quartz Sleeve		78.06
UVQS335D	34"	Dome End Quartz Sleeve		78.06



Chemical Feed Pumps - CHEMTECH



Chem Tech Series 100



Chem Tech Series 200

Materials of Construction:	
Pump Head	SAN
Diaphragm	Hypalon
Valve Seats	Hypalon
Gaskets	Teflon
Disch. Tubing	Polyethylene
Suct. Tubing	Flexible PVC
Ball Checks	Ceramic
Fittings	PVC

CHEM-TECH Series 100 Features:

- Positive displacement diaphragm metering pump.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 100 PSI.
- Life-time lubricated, sealed and self-maintaining gear train.
- Four ball valve design for trouble-free operation.
- Strong chemical resistant, flame retardant housing.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Injection back pressure valve assembly enables injection at an angle and inhibits syphoning.
- Fully adjustable output capacity over operating range.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.



ISO 9002

CHEM-TECH Series 200 Features:

- Heavy duty diaphragm feed pump allows for continuous operation.
- Feed ranges of 15 and 30 gallons per day.
- Operating pressure up to 125 PSI.
- High torque motor-gear coupling ensures start-up un maximum pressure.
- Strong fiber core casing & corrosion resistant rubber & plastic components.
- Metal reinforced, short-stroke diaphragm for extra-long life.
- Oil immersed gear train and heavy duty, fan cooled motor with thermal over load protection.
- All wetted components including diaphragm are interchangeable between all Series 200 models.
- Bleed valve assembly aids in priming and relieves pressure from discharge.
- UL, CSA approved for outdoor and indoor applications.
- Manufactured for AGI in an ISO9002 facility.



CHEM-TECH Motorized Models:

Includes tubing and suction & discharge fittings

Part Number	Series	Max	Output capacity	Volts	Strokes/ Min.	OD Tube Size	Ctn Qty	List Price
		Pressure PSI	@ Max psi GPD					
015-115	100	100	15	115	25	1/2"	1	\$ 545.19
015-230	100	100	15	230	25	1/2"	1	570.85
030-115	100	100	30	115	51	1/2"	1	545.19
030-230	100	100	30	230	51	1/2"	1	570.85
230-115	200	125	30	115	44	1/2"	1	1157.72
230-230	200	125	30	230	44	1/2"	1	1183.38
260-115	200	125	60	115	88	1/2"	1	1229.89

Additional ChemTech models are available, please contact your sales representative.



TM

In the United States:
In Canada:

Phone (800) 776-2266
Phone (866) 503-5523

www.americangranby.com
Fax (800) 729-3299
Fax (888) 562-2095

6/04

Chemical Feed Pumps - CHEMTECH Parts



Chem Tech Series 100



Chem Tech Series 200



ISO 9002



Stocked* Parts for Series 100 and Series 200 CHEMTECH Pumps

NEW Part Number	OLD Part Number	Description	List Price
J20560	278P	Ceramic Ball Check	\$ 8.10
J24960	240P	1/2" OD Standard CPLG nut	8.10
J26907	A54P	PVC Bulk Head Fitting, 1/2" OD, BFH not installed	78.57
J26908	A54Q	3/8" OD BFH not installed	78.57
25704	228P	Hypalon Diaphragm	63.10
J41694	J41694	1 1/2" long PVC Injection Ftg 1/2" OD tube size	111.90
J27903	237P	Teflon Gasket	8.20
28800	242P	SAN Head	70.95
J28801	296P	PVC Head	105.45
28903	A51P	Head Assembly	153.33
J30515	J30515	PVC Bleed Valve Kit w/Tubing, 1/2" OD	109.52
J61516	J61516	Head Mounting Bolts, S.S. 10 x 24 (4 included) with washers	18.70
J37440	638P	Hypalon Valve Seat	5.24
J38985	285P	Valve Spring	7.86
38981	682P	Coupling Spring	8.18
J40117	A50P	Foot Valve and Strainer Assembly, 1/2" OD	65.95
J41540	244P	Valve Housing Discharge, 1/2" OD	35.71
J41548	247P	Valve Housing, Suction, 1/2" OD	35.71
J41658	A52P	PVC Back Check Valve Assembly, 1/2" OD	79.29
41624	A53P	Anti Siphon valve assembly, 1/2" OD	127.20

* Other Series 100 & 200 parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for Series 100 & Series 200 CHEMTECH Pumps Feature:

- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked KOP Kits for Repairs: Keep-On-Pumping Kits

Part Number	Series	Fits Models	Tubing Size	List Price
KX030XAAAAAXX	100&200	3-100 GPD	1/2" OD	\$ 198.10



Chemical Feed Pumps - PULSATRON



C Plus Series



Materials of Construction:	
Pump Head	PVC
Diaphragm	Teflon faced, Hypalon backed
Valve Seats/ O-rings	Hypalon
Tubing	Clear PVC
Ball Checks	Ceramic
Fittings	PVC

PULSATRON®



PULSATRON "C" Series Electronic Metering Pump

ISO 9002

Features:

- Solenoid driven assembly - no motors.
- Reliable metering performance.
- Rated "hot" for continuous use.
- High viscosity capable up to 1000 cps.
- Leak free, sealless liquid end.
- Diaphragms are teflon-faced, bonded to a composite of Hypalon & fabric layers and reinforced with a metal insert.
- Manual control by on-line adjustable stroke length (fixed stroke length.)
- Agency approved for outdoor and indoor use.
- Water resistant for outdoor applications.
- Highly reliable timing circuit.
- Guided ball check valve system to reduce back flow and enhance outstanding running characteristics.
- Premium standard wetted component material.
- Few moving parts, wall mountable.
- Safe and easy priming with durable leak-free bleed valve assembly.
- Max pressure rating: 80 psi.
- Maximum 30 gallons per day.

PULSATRON "C PLUS" Series Electronic Metering Pump Features:

- Same as above plus:
- Manual control by on-line **adjustable** stroke length **and** stroke rate.
- Manufactured for AGI in a ISO 9002 facility.

PULSATRON Stocked Electronic Models					Suction & Discharge Tube OD	List Price
Part Number	Series	Pressure PSI	Max GPD	Voltage		
LC54SA-VHC1-XXX	C	80	30	115	3/8"	\$ 588.29
LD54SA-VHC1-XXX	C Plus	80	30	115	3/8"	659.33
LD54SA-VHCA-XXX	C Plus	80	30	115	1/2"	659.33
LD54SB-VHCA-XXX	C Plus	80	30	230	1/2"	694.80

* Additional Pulsatron models are available. Contact your sales representative.

Chemical Feed Pumps - PULSATRON Parts



C Plus Series

PULSATRON®

Pulsafeeder

ISO 9002



Stocked* Parts for PULSATRON C and C Plus Series Pumps

Part Number	Description	List Price
L9701500-150	Replacement Fuse 115V/230V C+	\$ 11.19
L9906201-00	Replacement C+ circuit board 115V	191.43
L9906202-00	Replacement C+ Circuit board, 230V	207.86
L3300H01-PVC	3/8" OD Bleed Valve Assembly	101.19
L3300H03-PVC	1/2" OD Bleed Valve Assembly	101.19
L3101HC1-PVC	3/8" OD C+ Suction valve	46.67
L3101HCA-PVC	1/2" OD Suction Valve	46.67
L3201HC1-PVC	3/8" OD C+ Discharge Valve	46.67
L3201HCA-PVC	1/2" OD C+ Discharge valve	46.67

* Other Series C and C Plus parts may be ordered. Contact your sales representative.



Kop Kit®

KOP Kit® for PULSATRON Series Pumps Feature:

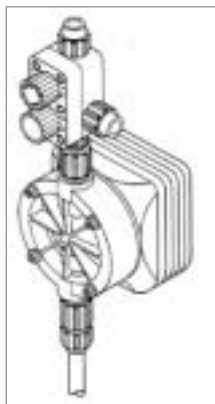
- Designed to guard against unnecessary down time.
- Kop Kit contains recommended spare parts most likely to require normal maintenance.
- Contains valve cartridges with o-rings, head, diaphragm, secondary o-ring seal,, head screen, & washers.
- Carded and shrink wrapped for display.

Stocked K.O.P. Kits for Repairs: Keep-On-Pumping Kits

NEW Part Number	OLD Part Number	Series	Fits Models	Suction Disch. Tubing Size	List Price
K4VHC1	KLC54SA-VHC1-XXX	C	30 GPD	3/8" OD	\$ 168.81
K3VHC1		C Plus	12 GPD	3/8" OD	143.81
K3VHCA		C Plus	12 GPD	1/2" OD	143.81
K4VHC1	KLD54SA-VHC1-XXX	C Plus	30 GPD	3/8" OD	168.81
K4VHCA	KLD54SA-VHCA-XXX	C Plus	30 GPD	1/2" OD	168.81



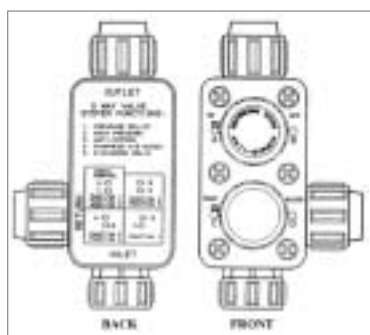
Chemical Feed Pumps - Accessories



DG/5FV De-gas Five Function Valve Features:

ISO 9002

- De-Gas - Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise "air bind" the pump.
- Back Pressure - Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-siphon - Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed - Used during priming to manually remove air from the pump head.
- Discharge Drain - Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.



L385 Series

Operation:

- The functions are selected by setting two, independent dual position selector knobs.
- The DG/5FV's compatible with most PULSATRON and CHEMTECH series pumps. Connected to the existing discharge valve the DG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.
- Degas/bypass volume is adjustable, typically 1-10% of pump output.

Specifications:

Maximum Flow	240 gpd
Minimum Flow	3 gpd
Max Viscosity	1000 cps
Max Pressure	Up to 250 psi

Materials of Construction:

Valve Body	PVD
Diaphragm	Teflon faced Hypalon
O-rings	Viton or Hypalon
Hardware	188 Stainless steel (recessed)

Part Number	Description	O-rings	Valve Body	Connection	List Price
L385KH03-PVD	DG/5VF De-Gas Valve	Hypalon	PVD	1/2" OD tubing	\$ 306.67
L385KV03-PVD	DG/5FV De-Gas Valve	Viton	PVD	1/2" OD tubing	306.67



U88 Series

Flow Meter Features:

- Economical, easy to install, easy to maintain.
- Calibrated in GPM/LPM with easy-to-read numbering.
- Available 1" -4" pipe size.
- Durable acrylic construction.
- Supplied with 2 clamps and rubber gasket seal.

Part Number	Nominal Pipe Size	Range GPM/LPM	List Price
U8800424	1"	5-35 / 20-130	\$ 107.51
U8800438	1 1/4"	10-60 / 40-220	107.51
U8800439	1 1/2"	20-80 / 80-300	107.51
U8800440	2"	30-140 / 120-550	107.51
U8800441	2 1/2"	40-200 / 160-750	107.51
U8800442	3"	80-350 / 300-1300	107.51
U8800443	4"	150-600 / 600-2200	107.51

Chemical Feed Pumps - Accessories



Pulsafeeder

ISO 9002

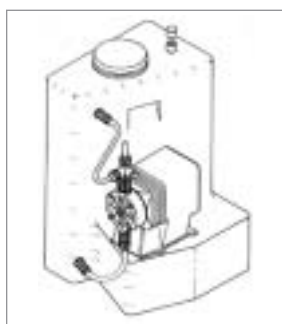


TFS System

TFS System Features:

- For use with PULSATRON pumps.
- Plastic base
- 15 gallon solution tank
- 2 bulkhead fittings
- Liquid level indication

Part Number	Description	List Price
J40442	15 Gallon TSF for Series 100 with 1/2" OD tubing	\$ 313.57
J40444	15 Gallon TSF for Pulsatron with 1/2" OD tubing	313.57



ITS System

Integrated Tank System (ITS) Features:

- Completely integrated system molded polyethylene
- 15 gallon capacity
- Translucent with 5 gallon increment marks.
- Low level indicator allows visual monitoring without opening tank.
- Child proof lid
- Flooded suction - No loss of prime.
- Universal pump mount.
- Built-in grip for easy lifting.
- Optional PVC shut-off valve.

Part Number	Description	List Price
J40490	15 Gallon ITS w/ 1/2" PVC bulkhead for CHEMTECH 100	\$ 376.57
J40493	15 Gallon ITS w/ 1/2" PVC bulkhead for PULSATRON	376.57

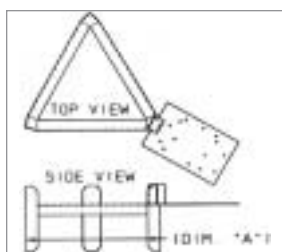


Solution Tanks

Solution Tank Features:

- High density polyethylene
- 5 gallon marked increments.
- Add "BHF" to part number for factory installed bulkhead fittings.

Part Number	Description	List Price
40375	15 Gallon liner with cover 25" x 14 1/2"	\$ 182.96
40360	30 Gallon liner with cover 32" x 18 1/2"	263.11
J40366	55 Gallon liner with rigid cover 42 1/2" x 18 1/2" (b) 23 (t)	368.67
26859	1/2" Bulk Head Fitting (BHF) installed at factory	33.93
26860	3/8" Bulk Head Fitting (BHF) installed at factory	33.93



Solution Tank Stand for CHEMTECH Series Features:

- Tri-pod stand with pump mounting shelf.
- 12 gauge, 304 stainless steel.

Part Number	Description	Dim. "A"	List Price
39320	15 Gallon with pump mounting shelf	14.13"	\$ 160.71
39322	30-40 Gallon with pump mounting shelf	18.63"	207.00
39321	55 Gallon with pump mounting shelf	18.13"	214.05



Chemical Feed Pumps - Uni-Dose™



U1 and U0 Series



Uni-Dose™ Electronic Metering Pump Features:

- Available with single or dual output control for easy accurate adjustment over operating range.
- Turn down ratio up to 100:1.
- Maximum output from 6 to 30 gallons per day at 80 psi.
- Virtually silent, ideal for household applications.
- Totally enclosed, chemical resistant housings provide superior protection in either indoor or outdoor applications.
- Reliable solid state electronics are fully encapsulated to ensure long life.
- Solenoid design provides power without fans, open housings, motors or gears.
- Safe inherent pressure relief stops pump if system back pressure exceeds the pump strength.
- Thermostatic protection prevents damage from overheating.
- Four self-cleaning Uni-valves designed to maintain prime while eliminating scaling and clogging associated with ball valves.
- Each pump comes complete with an injection check/back pressure valve, a foot valve and strainer, PVC suction tubing, UV resistant PE discharge tubing and tubing straightener.
- Heads and fittings constructed of high strength PVC.
- 1.4 AMPS maximum current @ 120 VAC.
- Made in USA.

Part Number	Description	Max. GPD	Max. PSI	List Price
U01#-281	U Series Metering Pump	6	80	\$ 448.36
U02#-281	U Series Metering Pump	12	80	448.36
U03#-281	U Series Metering Pump	24	80	448.36
U04#-281	U Series Metering Pump	30	80	448.36
U12#-281	U Series Metering Pump	12	80	482.87
U13#-281	U Series Metering Pump	24	80	482.87
U14#-281	U Series Metering Pump	30	80	482.87
# Insert voltage code/plug type before hyphen: 1= 120 VAC US plug 2= 240 VAC US plug (non export)				
Drop Ship Program ONLY– Minimum order of 6 pumps				

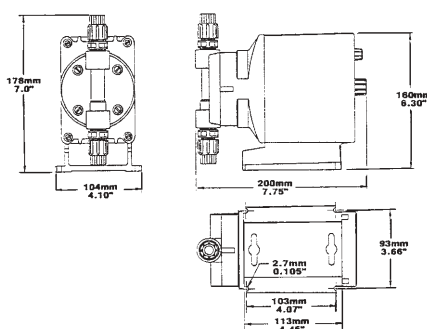
Chemical Feed Pumps - Uni-Dose™



U1 and U0 Series



Dimensions:



Control and Output Code

Manual Control

Speed (stroking frequency) fixed and stroke length manually adjustable

U01 6.0 GPD (0.95 L/H)80 PSI (5.5 Bar)

U02 12.0 GPD (1.9 L/H)80 PSI (5.5 Bar)

U03 24.0 GPD (3.8 L/H)80 PSI (5.5 Bar)

U04 30.0 GPD (4.8 L/H)80 PSI (5.5 Bar)

Dual Manual Control

Speed (stroking frequency) fixed and stroke length manually adjustable

U12 12.0 GPD (1.9 L/H)80 PSI (5.5 Bar)

U13 24.0 GPD (3.8 L/H)80 PSI (5.5 Bar)

U14 30.0 GPD (4.8 L/H)80 PSI (5.5 Bar)

Liquid End Materials:

PVC head and fittings, Flexiprene® Liquifram and Uni-Valves.

Model	GPD	GPH	Liters Per Hr.	ml/cc per Min.	ml/cc per Stroke	Strokes per Min.
	MIN- MAX	MIN- MAX	MIN - MAX	MIN- MAX	MIN- MAX	MIN- MAX
U01	1.2 - 6.0	0.05 - 0.25	0.19 - 0.95	3.2 - 16	0.13 - 0.63	Fixed - 25
U02	2.4 - 12.0	0.10 - 0.5	0.38 - 1.9	6.3 - 32	0.13 - 0.63	Fixed - 50
U03	4.8 - 24.0	0.20 - 1.0	0.76 - 3.8	12.7 - 63	0.13 - 0.63	Fixed - 100
U04	6.0 - 30.0	0.25 - 1.25	0.95 - 4.8	15.8 - 79	0.16 - 0.79	Fixed - 100
U12	0.12 - 12.0	0.005 - 0.5	0.02 - 1.9	0.3 - 32	0.13 - 0.63	2.5 - 50
U13	0.24 - 24.0	0.01 - 1.0	0.04 - 3.8	0.6 - 63	0.13 - 0.63	5 - 100
U14	0.30 - 30.0	0.01 - 1.25	0.05 - 4.8	0.8 - 79	0.16 - 0.79	5 - 100

Recommended minimum stroke length (adjustable) is 20%