



Filters & Strainers Product  
**Irrigation & Hose Filters**

# Irrigation & Hose Filters



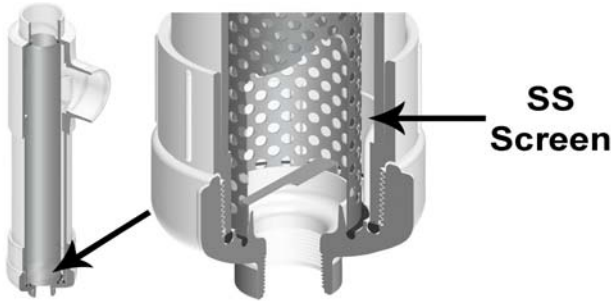
## PRODUCT

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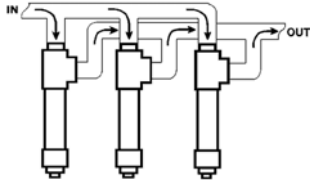


**Filters**

Specially designed for agricultural and irrigation applications. Suitable for any application where cool, filtered water is required. Standard units utilize an internal-to-external filter cartridge.



- 200 psi Working Pressure Non-Shock @ 73°F (23°C)
- Filter Body is made from NSF®-PW Approved PVC Material
- Optional Screen Meshes
- Compact Design, Easy to Clean
- Lightweight, Easy to Install
- Filter Screens are designed using a standard perforated Stainless Steel Screen
- Mesh Sizes include an inner Stainless Steel Cloth with Spring Support (external cloth on reverse flow filters)
- Pressure loss: 100 GPM – 3 psi 50 GPM – 1.25 psi
- May be bushed to required pipe size (Bushings sold separately)



- When more than 100 gpm is required, filters may be installed in parallel
- When installing filter, allow space for removing filter screen for cleaning
- Remove stainless steel filter screen before solvent welding filter to pipe manifold
- When filters are installed in the direct sun, it is suggested the filter body be coated with a water-base latex paint having a high reflectance
- Installation in a shaded area is preferred

**— CAUTION —**

- WATER HAMMER MAY CAUSE SEVERE DAMAGE TO THE FILTER ASSEMBLY.
- BACK FLUSHING IS NOT RECOMMENDED.
- QUALITY GRADE THREAD SEALANT IS RECOMMENDED FOR ALL THREADED PVC CONNECTIONS.

Mesh Size	Hole Size (in.)	Part Number Extension
1/16" Holes	.0625	-16
1/32" Holes	.0312	-32
50 Mesh	.0117	-50
76 Mesh	.0095	-76
100 Mesh	.0059	-100
150 Mesh	.0041	-150
200 Mesh	.0029	-200

Additional Mesh Sizes available on request.

**Filter Dimensions**

Series	A Inlet		B Outlet	C Overall Length	Screen Length
	Socket	Spigot			
FLR	2-1/2	3	4	28	24
MFLR	2-1/2	3	4	16	12

Made in the U.S.A.

Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas

Effective 06/26/2017 See MSRP-1 Sheet or Check Spears® On-line Catalog @ www.spearsmfg.com for Pricing

**Irrigation Filter Assembly with Stainless Steel Screen**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>100 GPM</b>					
FL-16 <sup>1</sup>	2-1/2 /3 x 4	1	0	020	615.08
FL-32 <sup>1</sup>	2-1/2 /3 x 4	1	0	020	629.06
FL-50	2-1/2 /3 x 4	1	0	020	712.91
FL-76	2-1/2 /3 x 4	1	0	020	861.09
FL-100	2-1/2 /3 x 4	1	0	020	782.80
FL-150	2-1/2 /3 x 4	1	0	020	810.79
FL-200	2-1/2 /3 x 4	1	0	020	880.67

<sup>1</sup> Standard FL-16 and FL-32 can be utilized as Reverse Flow Filters by reversing installation from current inlet to outlet and current outlet to inlet.

NOTE: Filter Assemblies are furnished standard with a 1-1/4" IPS tapped cap (FL-4A) for use with a valve, or may be plugged off (plug not furnished). Optional cap available with 1/4" IPS tapping for use with a pressure gauge — specify FL-5A when ordering.

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>50 GPM</b>					
MFL-16 <sup>1</sup>	2-1/2 /3 x 2	1	0	020	517.25
MFL-32 <sup>1</sup>	2-1/2 /3 x 2	1	0	020	525.62
MFL-50	2-1/2 /3 x 2	1	0	020	542.36
MFL-76	2-1/2 /3 x 2	1	0	020	657.04
MFL-100	2-1/2 /3 x 2	1	0	020	573.15
MFL-150	2-1/2 /3 x 2	1	0	020	601.09
MFL-200	2-1/2 /3 x 2	1	0	020	670.99

<sup>1</sup> Standard MFL-16 and MFL-32 can be utilized as Reverse Flow Filters by reversing installation from current inlet to outlet and current outlet to inlet.

NOTE: Filter Assemblies are furnished standard with a 1-1/4" IPS tapped cap (FL4A) for use with a valve, or may be plugged off (plug not furnished). Optional cap available with 1/4" IPS tapping for use with a pressure gauge — specify FL-5A when ordering.

**Irrigation Filter Replacement Screens**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>100 GPM (24" Length)</b>					
FL-16-1	1/16" Holes	4	0	020	246.03
FL-32-1	1/32" Holes	4	0	020	268.39
FL-50-1	50 Mesh	4	0	020	383.12
FL-76-1	76 Mesh	4	0	020	383.12
FL-100-1	100 Mesh	4	0	020	413.80
FL-150-1	150 Mesh	4	0	020	447.33
FL-200-1	200 Mesh	4	0	020	553.57

NOTE: When ordering replacement screens for FL and MFL Series Filters, please provide exact length of old screen within 1/64" to ensure proper fit of new screen in your filter body.

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
<b>50 GPM (12" Length)</b>					
MFL-16-1	1/16" Holes	4	0	020	201.42
MFL-32-1	1/32" Holes	4	0	020	232.70
MFL-50-1	50 Mesh	4	0	020	279.59
MFL-76-1	76 Mesh	4	0	020	279.59
MFL-100-1	100 Mesh	4	0	020	307.56
MFL-150-1	150 Mesh	4	0	020	341.11
MFL-200-1	200 Mesh	4	0	020	419.35

NOTE: When ordering replacement screens for FL and MFL Series Filters, please provide exact length of old screen within 1/64" to ensure proper fit of new screen in your filter body.



## Filters & Strainers Product Filters & Hose Filters

### Filters

#### Irrigation Filter Replacement Components

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### 100 GPM Filter Body

FL-11	2-1/2 /3 X 4	1	0	020	419.35
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#### 50 GPM Filter Body

MFL-11	2-1/2 /3 X 2	1	0	020	321.52
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#### Irrigation Filter Components for Old-Style w/3" Bottom Cap

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### Filter Cap w/Gasket

FL-4A	3X1-1/4	70	0	020	34.96
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FL-5A	3X1/4	70	0	020	34.96
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#### Cap Gasket Only

FCG-5	3	2	0	020	11.13
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#### Irrigation Filter Components - New Style Body w/4" Bottom Cap

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### Filter Cap w/O-rings

FL-4B	4X1-1/4	25	0	020	64.23
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FL-5B	4X1/4	1	0	020	103.92
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Includes Cap with Cap O-ring (1) and bottom Filter Bushing O-ring (1)

#### Irrigation Filter Components - New Style Body

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### Cap O-Ring Only

Pack of 50

BPB-242	---	1	10	891	11.88
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#### Filter Bushing O-Rings

B-335-60	---	100	0	891	4.05
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Each filter uses two (2) Filter Bushing O-rings for top and bottom screen seals

### Hose Filters



7 GPM Steel

7 GPM Plastic/Nylon

NOTE: It is recommended to connect the inlet of the Hose Filter to the system with a swivel adapter such as Spears® AP Series, to facilitate servicing of the filter element (refer to Hose Fittings).

Mesh Size	Hole Size (in.)	Part Number Extension
20 Mesh	.0331	-20
30 Mesh	.0232	-30
50 Mesh	.0117	-50
80 Mesh	.0070	-80
100 Mesh	.0059	-100
150 Mesh	.0041	-150
200 Mesh	.0029	-200

Additional Mesh Sizes available on request. Example: HF-50 = 50 Mesh

#### Hose Filter Assembly - 7 GPM

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### with Stainless Steel Screen

HF-20	3/4	10	60	020	20.73
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HF-30	3/4	10	60	020	20.73
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HF-50	3/4	10	60	020	20.73
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HF-80	3/4	10	60	020	20.73
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HF-100	3/4	10	60	020	21.53
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HF-150	3/4	10	60	020	21.80
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HF-200	3/4	10	60	020	22.38
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#### with Plastic/Nylon Screen

HF-150N	3/4	10	60	020	21.80
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#### Hose Filter Replacement Screen

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### Stainless Steel Screen

HF-20-1W	5	25	150	020	7.58
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HF-30-1W	5	25	150	020	7.58
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HF-50-1W	5	25	150	020	7.58
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HF-80-1W	5	25	150	020	7.58
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HF-100-1W	5	25	150	020	11.20
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HF-150-1W	5	25	150	020	11.20
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HF-200-1W	5	25	150	020	11.20
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#### Plastic/Nylon Screen

HF-150-1NW	4-3/4	25	150	020	11.20
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#### Hose Filter Body Components - 7 GPM

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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#### Hose Filter Body w/o screen

HF	3/4	10	60	020	15.59
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#### Hose Washer

W-100	3/4	50	1500	020	.21
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#### Screen Washer

S-W	---	600	0	891	.23
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**In-line Tee Style Filters and Reverse In-line Tee Style Filters**



**In-line Tee Style Filters and Reverse In-line Tee Style Filters**

100 GPM and 50 GPM • PVC White • Buna O-ring Seal



100 GPM



50 GPM

- In-line Design Simplifies Installation.
- Allows Easy Parallel Filter Configuration for Increased Flow and Filtration.
- Removable Type 304 Stainless Steel Filter Cartridges in Assorted Perforations and Screen Mesh.
- Standard Flow Filter (Internal-to-External) Traps Sediment on Inside of Cartridge, Reverse Flow Filter (External-to-Internal) Traps Sediment on Outside of Cartridge.
- Convenient Bottom Drain with 1-1/4" NPT Stainless Steel Reinforced Plastic Thread and Plug. Optional Cap with 1/4" Outlet Available.
- 200 psi Working Pressure for Water @ 73°F (23°C).
- Manufactured from NSF® Certified PVC Material.

Mesh Size	Hole Size (in.)	Part Number Extension
1/16" Holes	.0625	-16
1/32" Holes	.0312	-32
50 Mesh	.0117	-50
76 Mesh	.0095	-76
100 Mesh	.0059	-100
150 Mesh	.0041	-150
200 Mesh	.0029	-200

Additional Mesh Sizes available on request.  
Example: TF-50 = 50 Mesh

**Irrigation Tee Filter - 100 GPM PVC White**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**Buna-N O-ring Seal with Stainless Steel Screen**

TF-16*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	615.08
TF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	629.06
TF-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	712.91
TF-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	861.09
TF-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	782.80
TF-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	810.79
TF-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	880.67

**Irrigation Tee Filter - 50 GPM PVC White**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**Buna-N O-ring Seal with Stainless Steel Screen**

MTF-16*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	517.25
MTF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	525.62
MTF-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	542.36
MTF-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	657.04
MTF-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	573.15
MTF-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	601.09
MTF-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	670.99

**Irrigation Reverse Flow Tee Filter - 100 GPM PVC White**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**Buna-N O-ring Seal with Stainless Steel Screen**

TF-16*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	615.08
TF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	629.06
TFR-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	712.91
TFR-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	712.91
TFR-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	782.80
TFR-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	810.79
TFR-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	880.67

**Irrigation Reverse Flow Tee Filter - 50 GPM PVC White**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**Buna-N O-ring Seal with Stainless Steel Screen**

MTF-16*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	517.25
MTF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	525.62
MTFR-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	542.36
MTFR-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	542.36
MTFR-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	573.15
MTFR-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	601.09
MTFR-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	670.99

\*Standard TF-16, TF-32, MTF-16 & MTF-32 can be utilized as Reverse Flow Filters by reversing installation from current inlet to outlet and current outlet to inlet.

**Irrigation Reverse Flow Tee Filter - 100 GPM Replacement Screens for TF Filters (24" Length)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
FL-16-1	1/16" Holes	4	0	020	246.03
FL-32-1	1/32" Holes	4	0	020	268.39
FL-50-1	50 Mesh	4	0	020	383.12
FL-76-1	76 Mesh	4	0	020	383.12
FL-100-1	100 Mesh	4	0	020	413.80
FL-150-1	150 Mesh	4	0	020	447.33
FL-200-1	200 Mesh	4	0	020	553.57

NOTE: When ordering replacement screens for TF and MTF Series Filters, please provide exact length of old screen within 1/64" to insure proper fit of new screen in your filter body.

**Irrigation Reverse Flow Tee Filter - 50 GPM Filter Replacement Screens for MTF Filters (12" Length)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
MFL-16-1	1/16" Holes	4	0	020	201.42
MFL-32-1	1/32" Holes	4	0	020	232.70



**In-line Tee Style Filters and Reverse In-line Tee Style Filters**

**Irrigation Reverse Flow Tee Filter - 50 GPM Filter Replacement Screens for MTF Filters (12" Length) (continued)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
MFL-50-1	50 Mesh	4	0	020	279.59
MFL-76-1	76 Mesh	4	0	020	279.59
MFL-100-1	100 Mesh	4	0	020	307.56
MFL-150-1	150 Mesh	4	0	020	341.11
MFL-200-1	200 Mesh	4	0	020	419.35

NOTE: When ordering replacement screens for TF and MTF Series Filters, please provide exact length of old screen within 1/64" to insure proper fit of new screen in your filter body.

**Irrigation Reverse Flow Tee Filter - 100 GPM Replacement Screens for TFR Filters(24" Length)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
FL-16-1	1/16" Holes	4	0	020	246.03
FL-32-1	1/32" Holes	4	0	020	268.39
FLR-50-1	50 Mesh	4	0	020	383.12
FLR-76-1	76 Mesh	4	0	020	383.12
FLR-100-1	100 Mesh	4	0	020	413.80
FLR-150-1	150 Mesh	4	0	020	447.33
FLR-200-1	200 Mesh	4	0	020	553.57

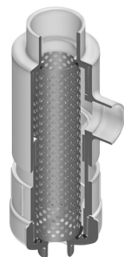
**Irrigation Reverse Flow Tee Filter - 50 GPM Replacement Screens for MTFR Filters (12" Length)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
MFL-16-1	1/16" Holes	4	0	020	201.42
MFL-32-1	1/32" Holes	4	0	020	232.70
MFLR-50-1	50 Mesh	4	0	020	279.59
MFLR-76-1	76 Mesh	4	0	020	279.59
MFLR-100-1	100 Mesh	4	0	020	307.56
MFLR-150-1	150 Mesh	4	0	020	341.11
MFLR-200-1	200 Mesh	4	0	020	419.35

**Reverse Flow Filters**



100 GPM



50 GPM

- Filter cartridge specially designed for external-to-internal filtration
- Traps sediment and debris on outside of filter (standard filters use internal-to-external flow)
- 100 GPM and 50 GPM styles available

**Irrigation Reverse Flow Filter with Stainless Steel Screen - 100 GPM**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**Socket x Socket/Spigot**

FLR-16 <sup>1</sup>	4X2-1/2 /3	1	0	020	615.08
FLR-32 <sup>1</sup>	4X2-1/2 /3	1	0	020	629.06
FLR-50	4X2-1/2 /3	1	0	020	712.91
FLR-76	4X2-1/2 /3	1	0	020	861.09
FLR-100	4X2-1/2 /3	1	0	020	782.80
FLR-150	4X2-1/2 /3	1	0	020	810.79
FLR-200	4X2-1/2 /3	1	0	020	880.67

<sup>1</sup> Standard FL-16 and FL-32 can be utilized as Reverse Flow Filters by reversing installation from current inlet to outlet and current outlet to inlet.

**Irrigation Reverse Flow Filter with Stainless Steel Screen - 50 GPM**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**Socket x Socket/Spigot**

MFLR-16 <sup>1</sup>	2X2-1/2 /3	1	0	020	517.25
MFLR-32 <sup>1</sup>	2X2-1/2 /3	1	0	020	525.62
MFLR-50	2X2-1/2 /3	1	0	020	542.36
MFLR-76	2X2-1/2 /3	1	0	020	657.04
MFLR-100	2X2-1/2 /3	1	0	020	573.15
MFLR-150	2X2-1/2 /3	1	0	020	601.09
MFLR-200	2X2-1/2 /3	1	0	020	670.99

<sup>1</sup> Standard MFL-16 and MFL-32 can be utilized as Reverse Flow Filters by reversing installation from current inlet to outlet and current outlet to inlet.

**Irrigation Filter Reverse Flow SS Replacement Screens (24" Length)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**100 GPM**

FL-16-1	1/16" Holes	4	0	020	246.03
FL-32-1	1/32" Holes	4	0	020	268.39
FLR-50-1	50 Mesh	4	0	020	383.12
FLR-76-1	76 Mesh	4	0	020	383.12
FLR-100-1	100 Mesh	4	0	020	413.80
FLR-150-1	150 Mesh	4	0	020	447.33
FLR-200-1	200 Mesh	4	0	020	553.57

**Irrigation Filter Reverse Flow SS Replacement Screens (12" Length)**

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
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**50 GPM**

MFL-16-1	1/16" Holes	4	0	020	201.42
MFL-32-1	1/32" Holes	4	0	020	232.70
MFLR-50-1	50 Mesh	4	0	020	279.59
MFLR-76-1	76 Mesh	4	0	020	279.59
MFLR-100-1	100 Mesh	4	0	020	307.56
MFLR-150-1	150 Mesh	4	0	020	341.11
MFLR-200-1	200 Mesh	4	0	020	419.35