



Filters & Strainers Product
Irrigation & Hose Filters

Irrigation & Hose Filters



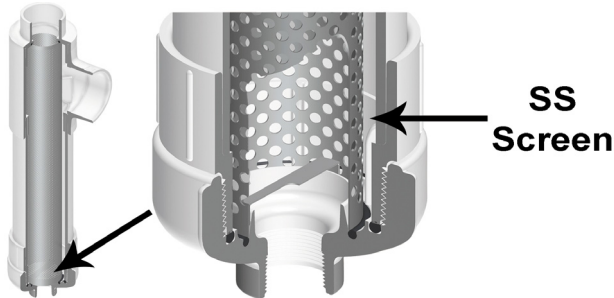
PRODUCT

Contact Spears® for any Information not found.

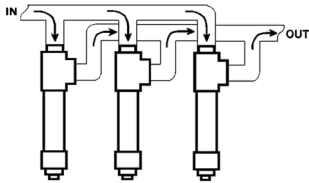


Filters

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

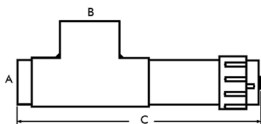
— CAUTION —

- 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
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
100 GPM					
FL-16 ¹	2-1/2 /3 x 4	1	0	020	584.33
FL-32 ¹	2-1/2 /3 x 4	1	0	020	597.61
FL-50	2-1/2 /3 x 4	1	0	020	677.26
FL-76	2-1/2 /3 x 4	1	0	020	818.04
FL-100	2-1/2 /3 x 4	1	0	020	743.66
FL-150	2-1/2 /3 x 4	1	0	020	770.25
FL-200	2-1/2 /3 x 4	1	0	020	836.64

¹ 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.

50 GPM

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
MFL-16 ¹	2-1/2 /3 x 2	1	0	020	491.39
MFL-32 ¹	2-1/2 /3 x 2	1	0	020	499.34
MFL-50	2-1/2 /3 x 2	1	0	020	515.24
MFL-76	2-1/2 /3 x 2	1	0	020	624.19
MFL-100	2-1/2 /3 x 2	1	0	020	544.49
MFL-150	2-1/2 /3 x 2	1	0	020	571.04
MFL-200	2-1/2 /3 x 2	1	0	020	637.44

¹ 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
100 GPM (24" Length)					
FL-16-1	1/16" Holes	3	0	020	233.73
FL-32-1	1/32" Holes	3	0	020	254.97
FL-50-1	50 Mesh	3	0	020	504.65
FL-76-1	76 Mesh	3	0	020	499.34
FL-100-1	100 Mesh	3	0	020	393.11
FL-150-1	150 Mesh	3	0	020	424.96
FL-200-1	200 Mesh	3	0	020	525.89

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.

50 GPM (12" Length)

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
MFL-16-1	1/16" Holes	3	0	020	233.73
MFL-32-1	1/32" Holes	3	0	020	244.36
MFL-50-1	50 Mesh	3	0	020	265.61
MFL-76-1	76 Mesh	3	0	020	377.15
MFL-100-1	100 Mesh	3	0	020	292.18
MFL-150-1	150 Mesh	3	0	020	324.05
MFL-200-1	200 Mesh	3	0	020	398.38

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	398.38
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50 GPM Filter Body

MFL-11	2-1/2 /3 X 2	1	0	020	305.44
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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	33.21
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FL-5A	3X1/4	70	0	020	33.21
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Cap Gasket Only

FCG-5	3	2	0	020	10.57
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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	61.02
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FL-5B	4X1/4	1	0	020	98.72
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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	11.29
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Filter Bushing O-Rings

B-335-60	---	100	0	891	3.85
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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	19.69
HF-30	3/4	10	60	020	19.69
HF-50	3/4	10	60	020	19.69
HF-80	3/4	10	60	020	19.69
HF-100	3/4	10	60	020	20.45
HF-150	3/4	10	60	020	20.71
HF-200	3/4	10	60	020	21.26

with Plastic/Nylon Screen

HF-150N	3/4	10	60	020	20.71
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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	7.20
HF-30-1W	5	25	150	020	7.20
HF-50-1W	5	25	150	020	7.20
HF-80-1W	5	25	150	020	7.20
HF-100-1W	5	25	150	020	10.64
HF-150-1W	5	25	150	020	10.64
HF-200-1W	5	25	150	020	10.64

Plastic/Nylon Screen

HF-150-1NW	4-3/4	25	150	020	10.64
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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	14.81
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Hose Washer

W-100	3/4	50	1500	020	.20
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Screen Washer

S-W	---	600	0	891	.22
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Filters & Strainers Product
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	584.33
TF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	597.61
TF-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	677.26
TF-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	818.04
TF-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	743.66
TF-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	770.25
TF-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	836.64

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	491.39
MTF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	499.34
MTF-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	515.24
MTF-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	624.19
MTF-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	544.49
MTF-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	571.04
MTF-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	637.44

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	584.33
TF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	597.61
TFR-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	677.26
TFR-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	818.04
TFR-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	743.66
TFR-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	770.25
TFR-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	836.64

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	491.39
MTF-32*	2-1/2 1/3 x 2-1/2 1/3	1	0	020	499.34
MTFR-50	2-1/2 1/3 x 2-1/2 1/3	1	0	020	515.24
MTFR-76	2-1/2 1/3 x 2-1/2 1/3	1	0	020	624.19
MTFR-100	2-1/2 1/3 x 2-1/2 1/3	1	0	020	544.49
MTFR-150	2-1/2 1/3 x 2-1/2 1/3	1	0	020	571.04
MTFR-200	2-1/2 1/3 x 2-1/2 1/3	1	0	020	637.44

*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	3	0	020	233.73
FL-32-1	1/32" Holes	3	0	020	254.97
FL-50-1	50 Mesh	3	0	020	504.65
FL-76-1	76 Mesh	3	0	020	499.34
FL-100-1	100 Mesh	3	0	020	393.11
FL-150-1	150 Mesh	3	0	020	424.96
FL-200-1	200 Mesh	3	0	020	525.89

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	3	0	020	233.73
MFL-32-1	1/32" Holes	3	0	020	244.36



Filters & Strainers Product

In-line Tee Style Filters and Reverse In-line Tee Style Filters & Reverse Flow Filters

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	3	0	020	265.61
MFL-76-1	76 Mesh	3	0	020	377.15
MFL-100-1	100 Mesh	3	0	020	292.18
MFL-150-1	150 Mesh	3	0	020	324.05
MFL-200-1	200 Mesh	3	0	020	398.38

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	3	0	020	233.73
FL-32-1	1/32" Holes	3	0	020	254.97
FLR-50-1	50 Mesh	3	0	020	256.20
FLR-76-1	76 Mesh	3	0	020	499.34
FLR-100-1	100 Mesh	3	0	020	354.76
FLR-150-1	150 Mesh	3	0	020	403.71
FLR-200-1	200 Mesh	3	0	020	499.60

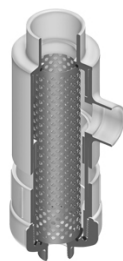
Irrigation Reverse Flow Tee Filter - 50 GPM Replacement Screens for MTFR Filters (12" Length)

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
MFL-16-1	1/16" Holes	3	0	020	233.73
MFL-32-1	1/32" Holes	3	0	020	244.36
MFLR-50-1	50 Mesh	3	0	020	269.69
MFLR-76-1	76 Mesh	3	0	020	377.15
MFLR-100-1	100 Mesh	3	0	020	277.55
MFLR-150-1	150 Mesh	3	0	020	307.83
MFLR-200-1	200 Mesh	3	0	020	378.45

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
Socket x Socket/Spigot					
FLR-16 ¹	4X2-1/2 /3	1	0	020	584.33
FLR-32 ¹	4X2-1/2 /3	1	0	020	597.61
FLR-50	4X2-1/2 /3	1	0	020	677.26
FLR-76	4X2-1/2 /3	1	0	020	818.04
FLR-100	4X2-1/2 /3	1	0	020	743.66
FLR-150	4X2-1/2 /3	1	0	020	770.25
FLR-200	4X2-1/2 /3	1	0	020	836.64

¹ 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
Socket x Socket/Spigot					
MFLR-16 ¹	2X2-1/2 /3	1	0	020	491.39
MFLR-32 ¹	2X2-1/2 /3	1	0	020	499.34
MFLR-50	2X2-1/2 /3	1	0	020	515.24
MFLR-76	2X2-1/2 /3	1	0	020	624.19
MFLR-100	2X2-1/2 /3	1	0	020	544.49
MFLR-150	2X2-1/2 /3	1	0	020	571.04
MFLR-200	2X2-1/2 /3	1	0	020	637.44

¹ 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
100 GPM					
FL-16-1	1/16" Holes	3	0	020	233.73
FL-32-1	1/32" Holes	3	0	020	254.97
FLR-50-1	50 Mesh	3	0	020	256.20
FLR-76-1	76 Mesh	3	0	020	499.34
FLR-100-1	100 Mesh	3	0	020	354.76
FLR-150-1	150 Mesh	3	0	020	403.71
FLR-200-1	200 Mesh	3	0	020	499.60

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

Part Number	Size	Std Pk	Mstr Ctn	Prod Code	MSRP
50 GPM					
MFL-16-1	1/16" Holes	3	0	020	233.73
MFL-32-1	1/32" Holes	3	0	020	244.36
MFLR-50-1	50 Mesh	3	0	020	269.69
MFLR-76-1	76 Mesh	3	0	020	377.15
MFLR-100-1	100 Mesh	3	0	020	277.55
MFLR-150-1	150 Mesh	3	0	020	307.83
MFLR-200-1	200 Mesh	3	0	020	378.45