

Manual Disc Filters

**Reliable, Efficient Plastic Discs
Create Superior Filtration**



2" Super Filter

Applications

- Protection of irrigation systems from clogging and/or abrasion
- Working conditions of 1 to 350 GPM
- Temperatures from minus 40° to 160°

Materials

Filter Body and Cover: Reinforced Polyamide
 Disc Rings: Polypropylene
 O-Rings: EPDM Rubber
 Clamps: Stainless Steel

Product Advantages

- Engineered for efficient operation - year after year with practically zero maintenance.
- Flat, grooved plastic rings stack together to form a cylindrical filter element.
- Easy cleaning - no scrubbing is necessary.
- Greater holding capacity - filters through the entire ring depth - not just the surface.
- During filtration, pressure increases and compresses the rings increasing efficiency and protecting the system from clogging.
- Constructed of the highest quality UV protected reinforced polymer plastic.
- Degree of filtration is easily changed - replace disc rings with desired mesh size.
- Available in a range of sizes, degrees of filtration and flow capacities.
- Works well as stand-alone units or combined to form modular filter batteries.

MICRON EQUIVALENT

Mesh Size	Micron Size
040	400
080	200
120	130
140	115
200	75

DISC COLOR

Mesh Size	Disc Color
040	Blue
080	Yellow
120	Red
140	Black
200	Green

MANUAL DISC FILTERS

MESH	FILTER SIZE									
	3/4"	1"	1" Super	1 1/2"	1 1/2" Super	2" Dual	2" Super	3" Twin	3" Angle	4" V
040	0	0	0	0	0	0	0	0	0	0
080	X	X	X	X	X	X	X	X	X	X
120	X	X	X	X	X	X	X	X	X	X
140	X	X	X	X	X	X	X	X	X	X
200	n/a	0	0	0	0	0	0	0	0	0

X = Standard, 0 = Optional, n/a = Not Available

Manual Disc Filter Specifications



3/4" Filter

Flow range:	1-18 GPM
Maximum pressure:	140 psi
Filtering surface area:	24.8 sq. in.
Filtering volume:	5.8 cu. in.
Length:	8 1/16"
Width:	9 5/8"
Weight:	.8 lbs.
Distance between end connections:	6"
Inlet/outlet diameter:	3/4" male
Part Number:	25A45-XXX



1" Filter

Flow range:	5-26 GPM
Maximum pressure:	140 psi
Filtering surface area:	48.91 sq. in.
Filtering volume:	26.8 cu. in.
Length:	8 7/8"
Width:	5 1/8"
Weight:	2.4 lbs.
Distance between end connections:	6 7/32"
Inlet/outlet diameter:	1" male
Part Number:	25A47-XXX



1" Super Filter

Flow range:	10-35 GPM
Maximum pressure:	140 psi
Filtering surface area:	77.78 sq. in.
Filtering volume:	36.1 cu. in.
Length:	13 11/16"
Width:	5 1/8"
Weight:	3.13 lbs.
Distance between end connections:	6 7/32"
Inlet/outlet diameter:	1" male
Part Number:	25A48-XXX



2" Super Filter

Flow range:	40-120 GPM
Maximum pressure:	140 psi
Filtering surface area:	148 sq. in.
Filtering volume:	75 cu. in.
Length:	19 13/32"
Width:	5 1/8"
Weight:	13.2 lbs.
Distance between end connections:	7 7/8"
Inlet/outlet diameter:	2" male
Part Number:	25A49-XXXSDS



3" Twin Filter - Flanged

Flow range:	80-175 GPM
Maximum pressure:	140 psi
Filtering surface area:	291 sq. in.
Filtering volume:	150 cu. in.
Length:	35.3"
Width:	11 13/16"
Weight:	26.8 lbs.
Distance between end connections:	12 19/32"
Inlet/outlet diameter:	3" flanged
Part Number:	25A50-XXXF

3" Twin Filter - Grooved

Flow range:	80-175 GPM
Maximum pressure:	140 psi
Filtering surface area:	291 sq. in.
Filtering volume:	150 cu. in.
Length:	35.3"
Width:	11 13/16"
Weight:	25.4 lbs.
Distance between end connections:	12 19/32"
Inlet/outlet diameter:	3" grooved
Part Number:	25A50-XXXG

4" V Filter

Flow range:	160-350 GPM
Maximum pressure:	110 psi
Filtering surface area:	574 sq. in.
Filtering volume:	108 cu. in.
Length:	41 1/2"
Weight:	44.7 lbs.
Distance between end connections:	16 9/32"
Inlet/outlet diameter:	4" grooved
Part Number:	25A74-XXXG





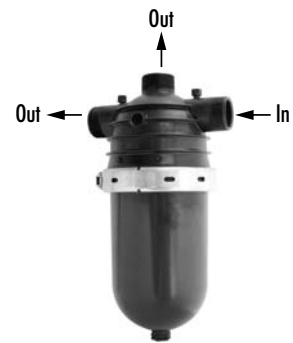
1 1/2" Filter

Flow range:	10-35 GPM
Maximum pressure:	140 psi
Filtering surface area:	49 sq. in.
Filtering volume:	26.8 cu. in.
Length:	8 25/32"
Width:	5 1/8"
Weight:	2.9 lbs.
Distance between end connections:	7 7/8"
Inlet/outlet diameter:	1 1/2" male
Part Number:	25A15-XXX



1 1/2" Super Filter

Flow range:	10-52 GPM
Maximum pressure:	140 psi
Filtering surface area:	77.8 sq. in.
Filtering volume:	36.1 cu. in.
Length:	14 1/16"
Width:	5 1/8"
Weight:	3.32 lbs.
Distance between end connections:	7 7/8"
Inlet/outlet diameter:	1 1/2" male
Part Number:	25A17-XXX



2" Dual Filter

Flow range:	40-120 GPM
Maximum pressure:	140 psi
Filtering surface area:	148 sq. in.
Filtering volume:	75 cu. in.
Length:	18 5/16"
Width:	7 7/8"
Weight:	11 lbs.
Distance between end connections:	10 1/4"
Inlet/outlet diameter:	2" male
Part Number:	25A30-XXX

3" Angle Filter - Flanged

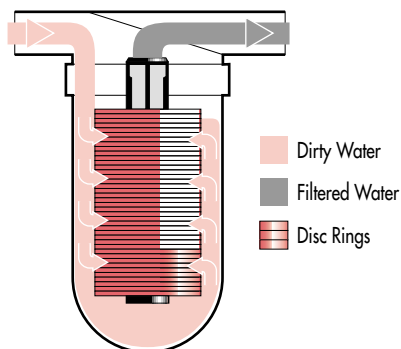
Flow range:	80-220 GPM
Maximum pressure:	140 psi
Filtering surface area:	287 sq. in.
Filtering volume:	54 cu. in.
Length:	25 7/32"
Width:	11 13/16"
Weight:	26 lbs.
Inlet/outlet diameter:	3" flanged
Part Number:	25A53-XXXF

3" Angle Filter - Grooved

Flow range:	80-220 GPM
Maximum pressure:	140 psi
Filtering surface area:	287 sq. in.
Filtering volume:	54 cu. in.
Length:	25 7/32"
Width:	11 13/16"
Weight:	26 lbs.
Inlet/outlet diameter:	3" grooved
Part Number:	25A53-XXXG



Description of Operation



As dirty water is pumped into the filter and pressure increases on the outside of the filter element, the water pressure compresses the rings tightly together increasing efficiency. Grooves in the disc rings criss-cross, forming a network that traps both organic and inorganic contaminants from the water source. This design filters the dirty water thoroughly - not only on the outer surface of the cylindrical disc filter element - but through the entire depth of every ring groove. Clean water exits from the inside of the cylinder.

At capacity, ring compression becomes so great that flow stops and nothing (dirt or water) passes - protecting your system from clogging.

Disc filters can easily be cleaned manually by removing the element and spraying the discs with water.

Manual Disc Filter Technical Information



FILTER APPLICATION RECOMMENDATIONS

FLOW RATE (GPM)	HEAD LOSS (psi)									
	3/4"	1"	1" Super	1 1/2"	1 1/2" Super	2" Dual	2" Super	3" Twin	3" Angle	4" V
5	0.60	0.25								
10	2.50	0.60								
13	3.40	1.34								
17	5.87	2.10								
22		3.24	1.10	1.10						
26			1.50	1.30	1.50					
31			2.10	1.70	2.10					
35			2.50	2.30	2.50					
44					4.20	0.30	0.30			
66						0.63	0.63			
88						1.03	1.03	0.64	0.44	
110						1.47	1.47	0.98	0.58	
132								1.37	0.73	
154								1.80	0.88	
176								2.28	1.03	0.45
198									1.32	0.58
220									1.61	1.20
242										1.32
264										1.47
286										1.61
308										1.91
330										2.35
350										2.64

Chart Legend

0.00	River, ditch, pond, lake or reservoir water
0.00	Well water containing sand only
0.00	Municipal supply

MANUAL DISC FILTER PARTS

Filter Size	Part Description	Part Number
3/4"	Ring Set <i>with spine</i>	25AP46-XXX
1" & 1 1/2"	Ring Set <i>with spine</i>	25AP47-XXX
1" & 1 1/2" Super	Ring Set <i>with spine</i>	25AP21121-XXX
2" Dual, 2" Super & 3" Twin	Ring Set <i>only</i>	25AP49-XXXS
2" Dual, 2" Super & 3" Twin	Detachable Spine <i>with rings</i>	25AP49-XXXSDS
3" Angle & 4" V	Ring Set <i>with spine</i>	25AP1341-XXX
3" Angle & 4" V	Ring Set <i>only</i>	25AP2341-XXX

Substitute XXX with proper mesh size