

# MANUAL DISC FILTERS

**RELIABLE, EFFICIENT PLASTIC DISCS CREATE SUPERIOR FILTRATION**



## PRODUCT ADVANTAGES

- Highly effective multiple disc ring design captures and holds more debris.
- Greater holding capacity of the rings vs. screen filters mean less frequent cleaning.
- Rings are easily removed for fast cleaning without the need for scrubbing.
- Color-coded disc rings make identification of mesh rating fast and easy.

## APPLICATIONS

- Primary irrigation filter for relatively clean or average water quality
- Protection of irrigation systems from clogging and/or abrasion



MESH/MICRON		
MESH	MICRON	DISC COLOR
040	400	Blue
080	200	Yellow
120	130	Red
140	115	Black
200	55	Green

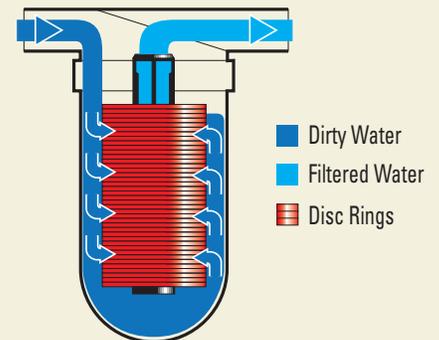
Substitute \*\*\* in Model Number for proper mesh.

## THE FILTERING PROCESS

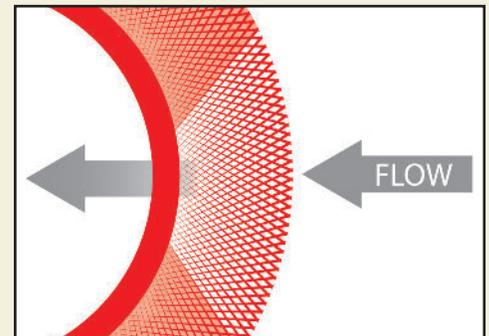
Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings crisscross, forming a three dimensional network that traps particles. The number of crisscrossed intersection points on each groove varies, depending on filtration grade. The turbulence in the varying paths and the large number of intersections create an environment where particles are eventually trapped.

This design filters the dirty water thoroughly, not only on the outer surface of the cylindrical disc filter, but through the entire depth of every ring's grooves. The result is a larger, more efficient filtering area (when compared to screen filters) with more debris being captured and cleaner water exiting from the filter.



Top view of disc ring



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## 3/4" FILTER

FLOW RANGE	1 - 12 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	25 sq. in.
FILTERING VOLUME	5.8 cu. in.
LENGTH	5 22/32"
WIDTH	7 15/32"
WEIGHT	.66 lbs.
DISTANCE BETWEEN ENDS	6"
INLET/OUTLET DIAMETER	3/4" Male
MODEL NUMBER	25A45-***



## 1" FILTER

FLOW RANGE	5 - 26 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	49 sq. in.
FILTERING VOLUME	27 cu. in.
LENGTH	9 11/32"
WIDTH	6 7/32"
WEIGHT	2.2 lbs.
DISTANCE BETWEEN ENDS	6 7/32"
INLET/OUTLET DIAMETER	1" Male
MODEL NUMBER	25A47-***



## 1" SUPER FILTER

FLOW RANGE	10 - 35 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	36 cu. in.
LENGTH	13 13/32"
WIDTH	6 7/32"
WEIGHT	3.11 lbs.
DISTANCE BETWEEN ENDS	6 7/32"
INLET/OUTLET DIAMETER	1" Male
MODEL NUMBER	25A48-***



## 2" DUAL LITE FILTER

FLOW RANGE	40 - 110 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	147 sq. in.
FILTERING VOLUME	75.7 cu. in.
LENGTH	16 5/16"
WIDTH	10 1/4"
WEIGHT	6.6 lbs.
DISTANCE BETWEEN ENDS	10 1/4"
INLET/OUTLET DIAMETER	2" Male
MODEL NUMBER	25A2DL-***



## 3" TWIN LITE FILTER

FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	294.5 sq. in.
FILTERING VOLUME	174 cu. in.
LENGTH	28 3/4"
WIDTH	9 14/32"
WEIGHT	17 lbs.
DISTANCE BETWEEN ENDS	12 19/32"
INLET/OUTLET DIAMETER	3" Flanged
MODEL NUMBER	25A3TL-***F



### 1 1/2" FILTER

FLOW RANGE	10 - 35 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	49 sq. in.
FILTERING VOLUME	27 cu. in.
LENGTH	10 5/8"
WIDTH	7 7/8"
WEIGHT	2.4 lbs.
DISTANCE BETWEEN ENDS	7 7/8"
INLET/OUTLET DIAMETER	1 1/2" Male
MODEL NUMBER	25A15-***



### 1 1/2" SUPER FILTER

FLOW RANGE	10 - 52 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	36 cu. in.
LENGTH	14 1/2"
WIDTH	7 7/8"
WEIGHT	3.3 lbs.
DISTANCE BETWEEN ENDS	7 7/8"
INLET/OUTLET DIAMETER	1 1/2" Male
MODEL NUMBER	25A17-***



### 2" DUAL HP FILTER

FLOW RANGE	40 - 120 GPM
MAXIMUM PRESSURE	174 psi
FILTERING SURFACE AREA	147 sq. in.
FILTERING VOLUME	75 cu. in.
LENGTH	14 3/4"
WIDTH	10 1/4"
WEIGHT	11 lbs.
DISTANCE BETWEEN ENDS	10 1/4"
INLET/OUTLET DIAMETER	2" Male
MODEL NUMBER	25A30-***



FLANGED



GROOVED

### 3" ANGLE FILTER

FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	287 sq. in.
FILTERING VOLUME	108 cu. in.
LENGTH	24 7/8"
WIDTH	12 3/32"
WEIGHT	31 lbs.
INLET/OUTLET DIAMETER	3"
MODEL NUMBER - FLANGED	25A53-***FNEW
MODEL NUMBER - GROOVED	25A53-***GNEW



### 4" TWIN FILTER

FLOW RANGE	160 - 450 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	574 sq. in.
FILTERING VOLUME	216 cu. in.
LENGTH	47"
WIDTH	13"
WEIGHT	52.8 lbs.
DISTANCE BETWEEN ENDS	17 17/32"
INLET/OUTLET DIAMETER	4" Flanged
MODEL NUMBER	25A78-***F

### 6" TWIN FILTER

FLOW RANGE	200 - 600 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	574 sq. in.
FILTERING VOLUME	216 cu. in.
LENGTH	47"
WIDTH	13"
WEIGHT	57.2 lbs.
DISTANCE BETWEEN ENDS	17 17/32"
INLET/OUTLET DIAMETER	6" Flanged
MODEL NUMBER	25A80-***F

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## FILTER APPLICATION RECOMMENDATIONS

FLOW RATE (GPM)	HEADLOSS (psi)										
	3/4"	1"	1" SUPER	1 1/2"	1 1/2" SUPER	2" DUAL HP	2" DUAL LITE	3" TWIN LITE	3" ANGLE	4" TWIN	6" TWIN
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		
198									1.32		
220									1.61		
242											
264											
286											
308										1.40	1.00
330										1.50	1.20
350										1.60	1.30
400										2.00	1.50
500											2.00
600											3.00

The losses shown are for filters with 140 Mesh

### CHART LEGEND

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

## ORDERING INFORMATION

FILTER SIZE	MODEL NUMBER
3/4"	25A45-***
1"	25A47-***
1" SUPER	25A48-***
1 1/2"	25A15-***
1 1/2" SUPER	25A17-***
2" DUAL HP	25A30-***
2" DUAL LITE	25A2DL-***
3" TWIN LITE	25A3TL-***F
3" ANGLE FLANGED	25A53-***FNEW
3" ANGLE GROOVED	25A53-***GNEW
4" TWIN FLANGED	25A78-***F
6" TWIN FLANGED	25A80-***F

Substitute \*\*\* for proper mesh size.

## MATERIALS

- Disc Rings: Polypropylene
- O-Rings: EPDM Rubber
- Clamp: Stainless Steel (except 2" Dual Lite and 3" Twin Lite which is Plastic)



**NETAFIM USA**  
 5470 E. HOME AVE.  
 FRESNO, CA 93727  
 CS 888 638 2346  
 www.netafimusa.com