



# Manual Disc Filters

for Gold and Copper Mines

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



### 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.

### MANUAL DISC FILTERS

MESH	FILTER SIZE					
	3/4"	1"	1" Super	1 1/2"	1 1/2" Super	2" Dual
040	0	0	0	0	0	0
080	X	X	X	X	X	X
120	X	X	X	X	X	X
140	X	X	X	X	X	X
200	-	0	0	0	0	0

MESH	2" Super	3" Twin	3" Angle	4" V	4" Twin	6" Twin
	040	0	0	0	0	0
080	X	X	X	X	X	X
120	X	X	X	X	X	X
140	X	X	X	X	X	X
200	0	0	0	0	0	0

X = Standard, 0 = Optional, - = Not Available



2" Super Filter

### Applications

- Protection of leach system from clogging and/or abrasion
- Working conditions of 1 to 600 GPM
- Temperatures from -40° to 160°

### Materials

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

### 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



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# Manual Disc Filter Specifications / Ordering Information



## 3/4" Filter

Flow range:	1-12 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



Substitute XXX with proper mesh size.



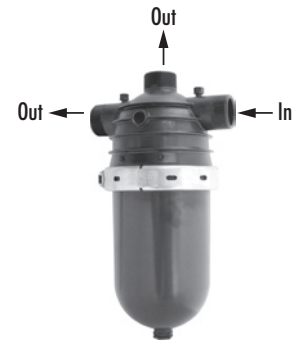
### 1 1/2" Filter

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



### 1 1/2" Super Filter

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



### 2" Dual Filter

<b>Flow range:</b>	40-120 GPM
<b>Maximum pressure:</b>	174 psi
<b>Filtering surface area:</b>	148 sq. in.
<b>Filtering volume:</b>	75 cu. in.
<b>Length:</b>	18 5/16"
<b>Width:</b>	7 7/8"
<b>Weight:</b>	11 lbs.
<b>Distance between end connections:</b>	10 1/4"
<b>Inlet/outlet diameter:</b>	2" male
<b>Part Number:</b>	25A30-XXX

### 3" Angle Filter - Flanged

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

### 3" Angle Filter - Grooved

<b>Flow range:</b>	80-200 GPM
<b>Maximum pressure:</b>	140 psi
<b>Filtering surface area:</b>	287 sq. in.
<b>Filtering volume:</b>	54 cu. in.
<b>Length:</b>	25 7/32"
<b>Width:</b>	11 13/16"
<b>Weight:</b>	26 lbs.
<b>Inlet/outlet diameter:</b>	3" grooved
<b>Part Number:</b>	25A53-XXXXG



### 4" Twin Filter - Flanged

<b>Flow range:</b>	160-450 GPM
<b>Maximum pressure:</b>	140 psi
<b>Filtering surface area:</b>	574 sq. in.
<b>Filtering volume:</b>	108 cu. in.
<b>Weight:</b>	44.7 lbs.
<b>Distance between end connections:</b>	16 9/32"
<b>Inlet/outlet diameter:</b>	4" flanged
<b>Part Number:</b>	25A78-XXXXF

### 6" Twin Filter - Flanged

<b>Flow range:</b>	200-600 GPM
<b>Maximum pressure:</b>	140 psi
<b>Filtering surface area:</b>	574 sq. in.
<b>Filtering volume:</b>	108 cu. in.
<b>Weight:</b>	48 lbs.
<b>Distance between end connections:</b>	16 1/3"
<b>Inlet/outlet diameter:</b>	6" flanged
<b>Part Number:</b>	25A80-XXXXF

# Manual Disc Filter Technical Information

## FILTER APPLICATION RECOMMENDATIONS

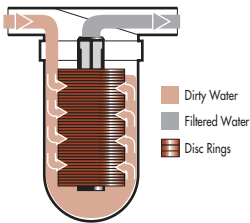
FLOW RATE (GPM)	HEAD LOSS (psi)												
	3/4"	1"	1" Super	1 1/2"	1 1/2" Super	2" Dual	2" Super	3" Twin	3" Angle	4" V	4" Twin*	6" Twin*	
5	0.60	0.25											
10	2.50	0.60											
13	3.40	1.34											
17	5.87	2.10											
22		3.24	1.10	1.10									
26			1.50	1.30	1.50								
31			2.10	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	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	Reservoir water
0.00	Well water containing sand only
0.00	Municipal supply

\*HEADLOSS for 4" and 6" Twin Filters - please call Netafim USA Customer Service.

## Description of Operation



As dirty water or solution is pumped into the filter and pressure increases on the outside of the filter element, the water or solution 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 or solution thoroughly - not only on the outer surface of the cylindrical disc filter element - but through the entire depth of every ring groove. Clean water or solution exits from the inside of the cylinder.

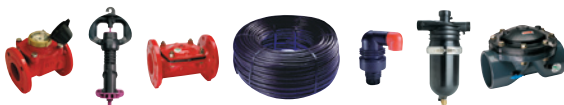
## MANUAL DISC FILTER PARTS

Filter Size	Part Description	Part Number
3/4"	Ring Set with spine	25AP46-XXX
1" & 1 1/2"	Ring Set with spine	25AP47-XXX
1" & 1 1/2" Super	Ring Set with spine	25AP21121-XXX
2" Dual, 2" Super & 3" Twin	Ring Set only	25AP49-XXXS
2" Dual, 2" Super & 3" Twin	Detachable Spine with rings	25AP49-XXXSDS
3" Angle & 4" V, 4" Twin, 6" Twin	Spine Assembly without rings	25AP21990043
3" Angle & 4" V, 4" Twin, 6" Twin	Ring Set only	25AP2341-XXX

Substitute XXX with proper mesh size

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