

MANUAL DISC FILTERS

WASTEWATER DIVISION

Applications

- Wastewater
- Reuse/recycled/reclaimed water
- Spray tanks
- Wherever very effective removal of debris is required
- Works well as standalone units or combined to form filter batteries

Features/Benefits

- Highly effective multiple disc ring design captures and holds more debris
- Low friction loss keeps system costs down
- Rings are easily removed for fast cleaning without the need for scrubbing
- Greater holding capacity of the rings vs. screen filters mean less frequent cleaning
- Color-coded disc rings make identification of mesh rating fast and easy
- Ring sets are easily replaced if mesh requirements change

Specifications

- Filter Body and Cover: Reinforced Polyamide
- Disc Rings: Polypropylene
- O-Rings and seals: Nitrile & EPDM
- Clamps, spring and bolts: Stainless Steel
- Temperature range: -40° to 160°F (-40° to 70°C)
- Maximum pressure: 140 psi

DISC Mesh/Micron Chart

Color Code	Blue	Yellow	Red	Black	Brown	Green
Mesh Size	40	80	120	140	200	280
Micron	400	200	130	100	70	55

Reliable, Efficient, High Capacity Plastic Discs Create Superior Filtration



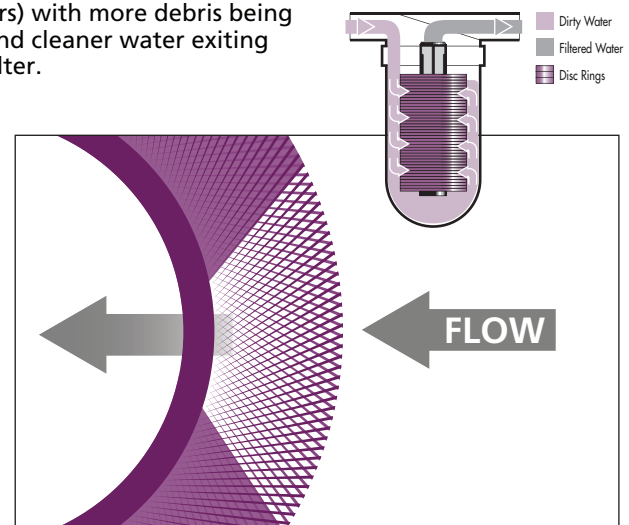
2" Filter

THE FILTERING PROCESS

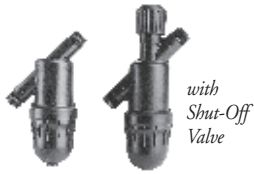
Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter, and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings criss cross, forming a three-dimensional network that traps particles. The number of criss-crossed 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 (see drawing below).

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.



3/4" Filter

Flow range:	1-17 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
Model Number:	25A45-XXX
<i>With Shut-Off Valve</i>	
Model Number:	25A46-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
Model Number:	25A47-XXX



1" Long 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
Model 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
Model 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
Model 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
Model Number:	25A50-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
Model Number:	25A15-XXX



1 1/2" Long 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
Model Number:	25A17-XXX



2" Dual Filter

Flow range:	40-120 GPM
Maximum pressure:	174 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
Model 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
Model Number:	25A53-XXXXF

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
Model Number:	25A53-XXXG



4" Twin Filter - Flanged

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

6" Twin Filter - Flanged

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

FILTER ORDERING INFORMATION

DISC FILTER Application Recommendations

	Head Loss (psi)										
	¾"	1"	1" Long	1 ½"	1 ½" Long	2" Dual	2" Super	3" Twin	3" Angle	4" Twin	6" Twin
Filtering Volume (cu. in.)	5.8	27	36	27	36	75	75	150	54	108	108
Filtering Surface (sq. in.)	25	49	78	49	78	148	148	291	287	574	574
Flow Rate (GPM)	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

MANUAL DISC FILTER Chart Legend

- 0.00 Effluent (incomplete biological treatment) - rivers & canals (high biological load) reservoirs (hot climate, insufficient sedimentation)
- 0.00 Effluent (effective sedimentation, complete biological treatment) - rivers & canals (low biological load) reservoirs (cold climate good sedimentation)
- 0.00 Municipal supply or well water (well-maintained with no presence of iron or magnesium)

The losses shown are for filters with 140 mesh.

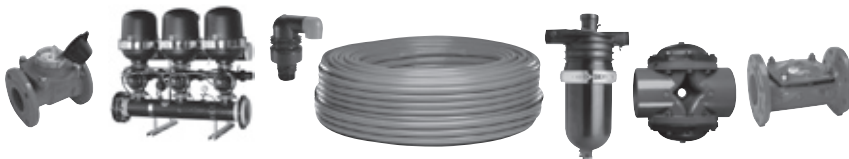
MANUAL DISC FILTER Ordering Information

Model Number*	Description	Flow Range
25A45-XXX	¾" MPT x MPT	1 - 17 GPM
25A46-XXX	¾" MPT x MPT w/Shut-Off Valve	1 - 17 GPM
25A47-XXX	1" MPT x MPT	5 - 26 GPM
25A48-XXX	1" Long MPT x MPT	10 - 35 GPM
25A15-XXX	1½" MPT x MPT	10 - 35 GPM
25A17-XXXSDS	1½" Long MPT x MPT	10 - 52 GPM
25A49-XXXSDS	2" Super MPT x MPT **	40 - 120 GPM
25A30-XXX	2" Dual MPT x MPT ***	40 - 120 GPM
25A50-XXXG	3" Twin - Grooved	80 - 175 GPM
25A50-XXXF	3" Twin - Flanged	80 - 175 GPM
25A53-XXXF	3" Angle Filter - Flanged	80 - 220 GPM
25A53-XXXG	3" Angle Filter - Grooved	80 - 220 GPM
25A78-XXXF	4" Twin Filter - Flanged	160 - 450 GPM
25A80-XXXF	6" Twin Filter - Flanged	200 - 600 GPM

*Substitute desired mesh for "XXX" (40 mesh = 040, 120 = 120)
 **Filter comes with two opposing side inlets and one top outlet
 ***Filter comes with one side inlet and a top or side outlet
 Note: Standard mesh includes 80, 120 or 140. 40 & 200 mesh are available by special order. ¾" filter is not available with 200 mesh.
 Contact Netafim USA Customer Service for Item Numbers.

Netafim USA - Delivering Total System Solutions for Wastewater

- Dripperlines • Filters • Valves • Air Vents • Flow Meters • Controllers



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