

WATERFILTERS

HANDMATIG EN DISC-FILTRATIE

Tuinbouwtechniek
& -benodigdheden



KaRo BV
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07-2013

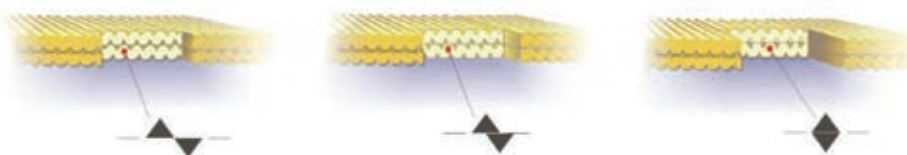
Arkal's filtration systems use a specially designed disc filtration technology.

Color-coded Polypropylene or Nylon discs are grooved on both sides to a specific micron size. A series of these discs are then stacked and compressed on a specially designed spine. When stacked, the groove on top runs opposite to the groove below, creating a filtration element with a statistically significant series of intersecting grooves which trap the solids. The stack is enclosed in a corrosion and pressure resistant housing.

During filtration, the discs are tightly compressed together by a combination of the spring's power and the differential pressure, thus providing high filtration efficiency. Filtration occurs while water is percolating from the outer diameter to the inner diameter of the element. Depending on the micron rating (See table), there are from 18 (in 400 micron discs) to 32 (in 20 micron discs) stopping points in each track, thus creating the unique in-depth filtration (Figure below).

Table of Filtration Grades of the Discs and Color Code

	Blue	Yellow	Red	Black	Brown	Green	Purple	Gray
Color Code	Blue	Yellow	Red	Black	Brown	Green	Purple	Gray
Micron	400	200	130	100	70	55	40	20
Mesh	40	80	120	140				
PP								
Nylon								



1" Short

Manual Disc Filter

Features

- Precise disc filtration
- Durable filter element
- All plastic-corrosion free

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	25	in	1
Filtration surface area	cm ²	308	in ²	48
Filtration volume	cm ³	370	in ³	22
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	6	26.5
	Average	4.5	20
55 µ	Good	4.2	18.5
	Average	3.15	14



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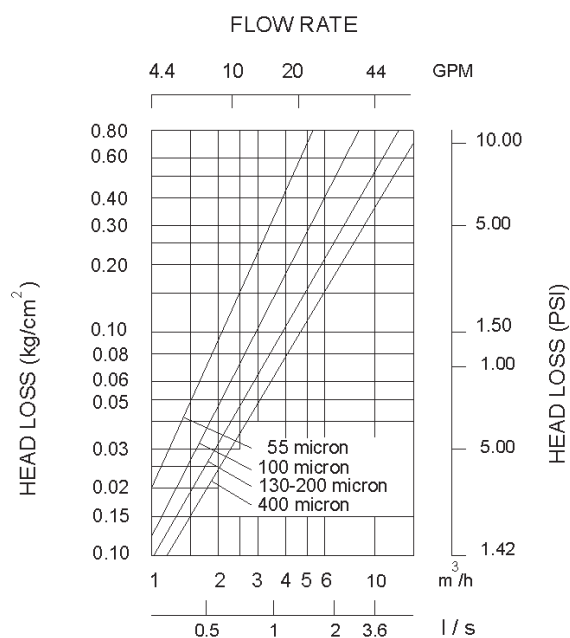
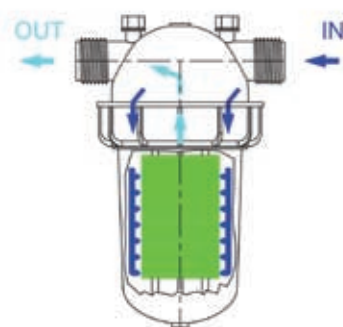
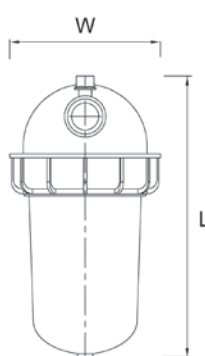
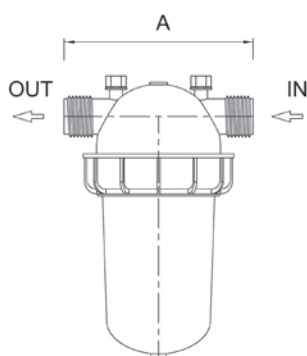
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Dimensions and Weights

D Inlet/Outlet diameter	mm	25	inch	1
L Length	mm	233	inch	9 ³ / ₁₆
W Width	mm	130	inch	5 ³ / ₃₂
A	mm	158	inch	6 ⁷ / ₃₂
Shipping weight (approx.)	kg	1.1	lbs	2.4



1" Short is available in:
Polyamide or Polypropylene.



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1" Super

Manual Disc Filter

Features

- Precise disc filtration
- Durable filter element
- All plastic-corrosion free

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	25	in	1
Filtration surface area	cm ²	501.2	in ²	77.78
Filtration volume	cm ³	592	in ³	36.1
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	8	35
	Average	6	26.5
55 µ	Good	5.6	25
	Average	4.2	18.5



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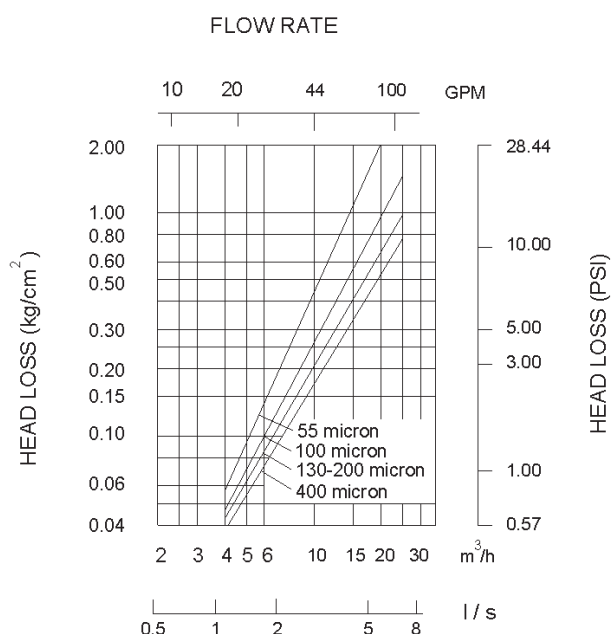
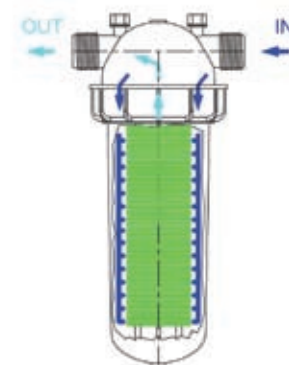
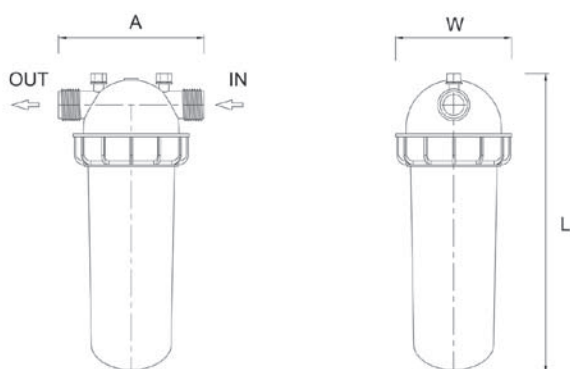
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Dimensions and Weights

D Inlet/Outlet diameter	mm	25	inch	1
L Length	mm	340	inch	13 13/32
W Width	mm	130	inch	5 3/32
A	mm	158	inch	6 7/32
Shipping weight (approx.)	kg	1.42	lbs	3.13



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Polyamide or Polypropylene.



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1½" Short

Manual Disc Filter

Features

- Precise disc filtration
- Durable filter element
- All plastic-corrosion free

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	40	in	1 1/2"
Filtration surface area	cm ²	308	in ²	48
Filtration volume	cm ³	370	in ³	23
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	8	35
	Average	6	26.5
55 µ	Good	5.6	25
	Average	4.2	18.5



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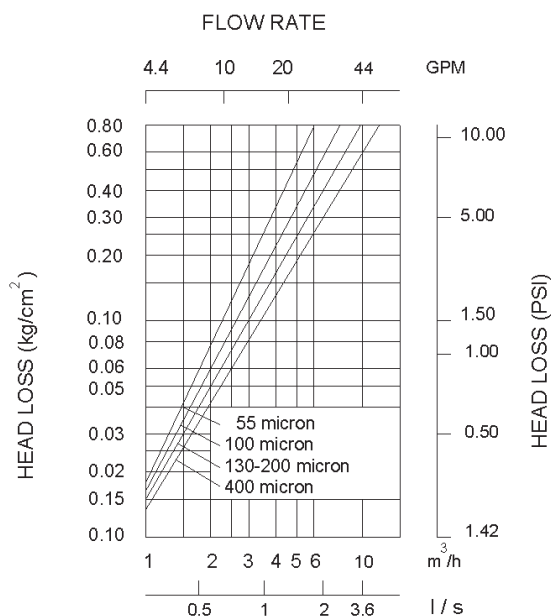
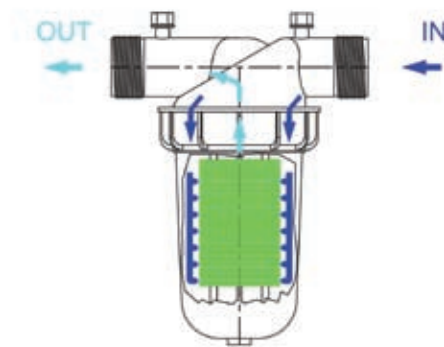
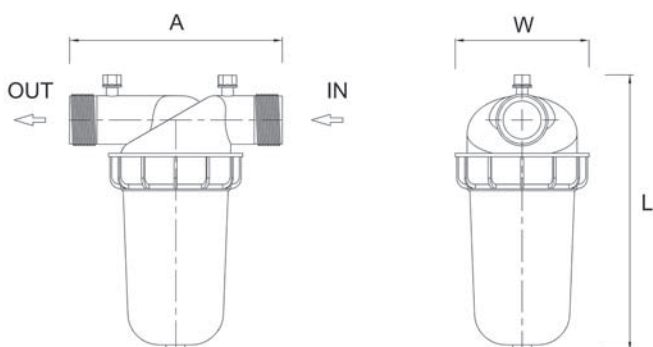
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Dimensions and Weights

D Inlet/Outlet diameter	mm	40	inch	1 1/2
L Length	mm	250	inch	9 27/32
W Width	mm	130	inch	5 3/32
A	mm	200	inch	7 7/8
Shipping weight (approx.)	kg	1.3	lbs	2.9



1½" Short is available in:
Polyamide or Polypropylene.



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1½" Super Manual Disc Filter

Features

- Precise disc filtration
- Durable filter element
- All plastic-corrosion free

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	40	in	1 ½
Filtration surface area	cm ²	501.8	in ²	77.78
Filtration volume	cm ³	592	in ³	36 ¾
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	12	53
	Average	9	40
55 µ	Good	8.4	37
	Average	6.3	28



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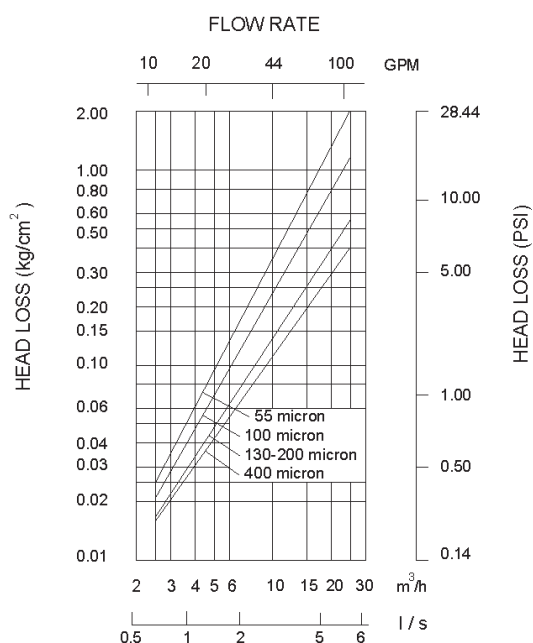
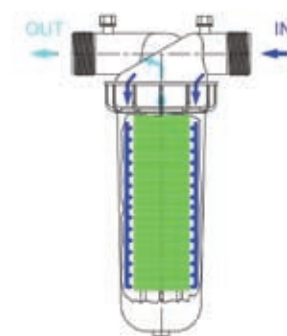
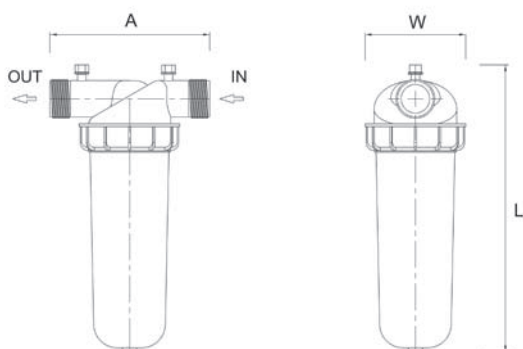
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Dimensions and Weights

D Inlet/Outlet diameter	mm	40	inch	1 1/2
L Length	mm	350	inch	13 25/32
W Width	mm	130	inch	5 3/32
A	mm	200	inch	7 7/8
Shipping weight (approx.)	kg	1.51	lbs	3.32



1½" Super is available in:
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2" Dual

Manual Disc Filter

Features

- Precise disc filtration
- High flow capacity
- Durable filter element
- All plastic-corrosion free

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	50	in	2
Filtration surface area	cm ²	950	in ²	148
Filtration volume	cm ³	1,225	in ³	75
Pressure rating	bar	12	psi	168
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	25	110
	Average	18.75	82.5
55 µ	Good	17.5	77
	Average	13.1	58
20 µ	Good	12.5	55
	Average	9.37	41



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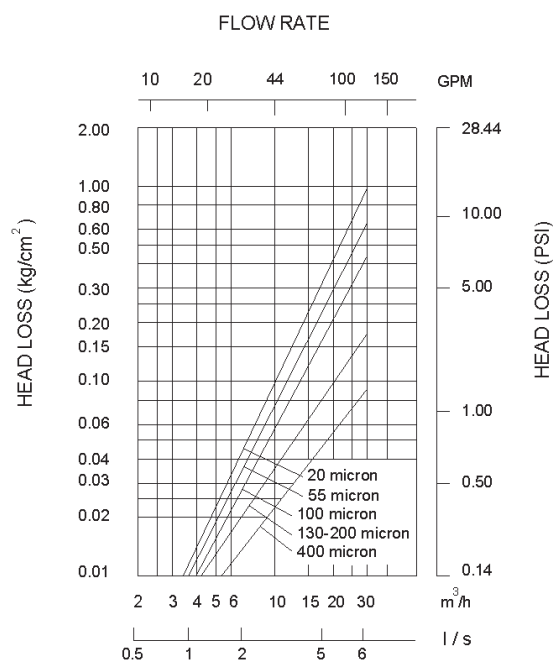
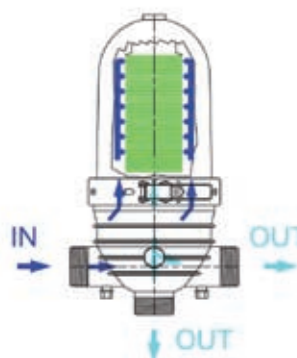
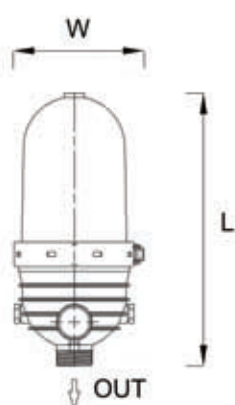
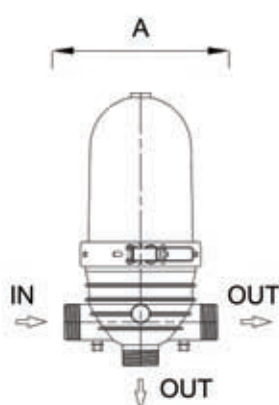
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Dimensions and Weights

D Inlet/Outlet diameter	mm	50	inch	2
L Length	mm	465	inch	18 ⁵ / ₁₆
W Width	mm	200	inch	7 ⁷ / ₈
A	mm	260	inch	10 ¹ / ₄
Shipping weight (approx.)	kg	5	lbs	11



2" Dual is available in:
Polyamide or Polysulfon.



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2" Super

Manual Disc Filter

Features

- Precise disc filtration
- High flow capacity
- Durable filter element
- All plastic-corrosion free

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	50	in	2
Filtration surface area	cm ²	950	in ²	148
Filtration volume	cm ³	1,225	in ³	75
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	25	110
	Average	18.75	82.5
55 µ	Good	17.5	77
	Average	13.1	58
20 µ	Good	12.5	55
	Average	9.37	41



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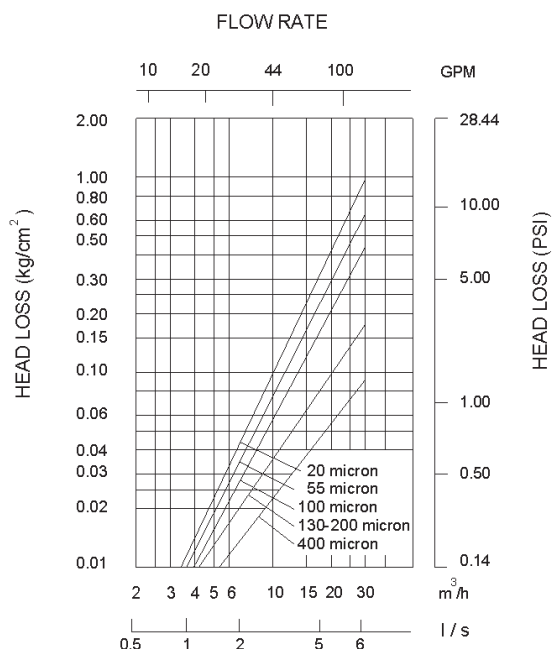
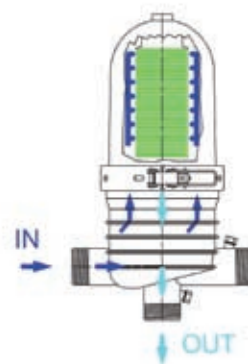
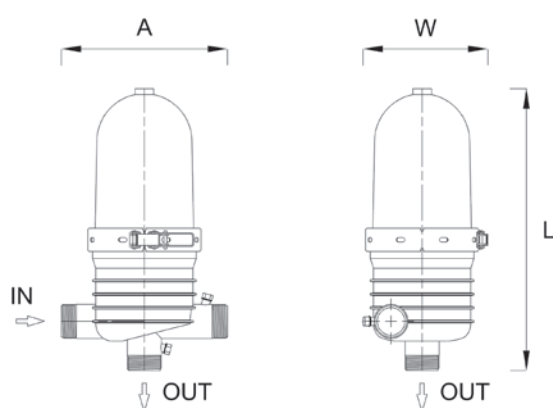
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Dimensions and Weights

D Inlet/Outlet diameter	mm	50	inch	2
L Length	mm	495	inch	19 1/2
W Width	mm	200	inch	7 7/8
A	mm	260	inch	11 13/32
Shipping weight (approx.)	kg	6	lbs	13.2



2" Super is available in:
Polyamide.



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2" Leader

Manual Disc Filter

Features

- Durable filter element
- Corrosion free
- All Polypropylene
- Precise disc filtration

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	50	in	2
Filtration surface area	cm ²	950	in ²	148
Filtration volume	cm ³	1,225	in ³	75
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	30	132
	Average	21	92
55 µ	Good	16	70.4
	Average	11	48.5
20 µ	Good	8	35.2
	Average	5	22



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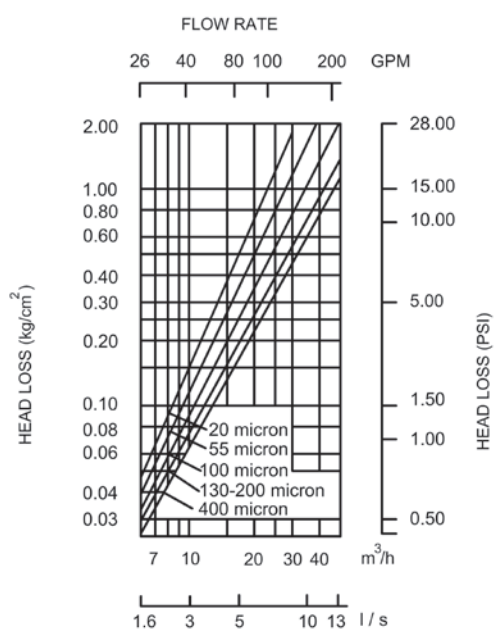
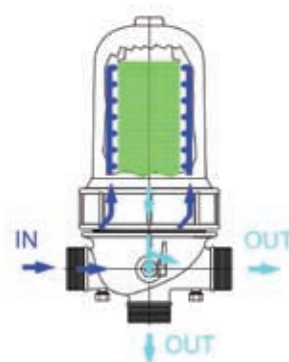
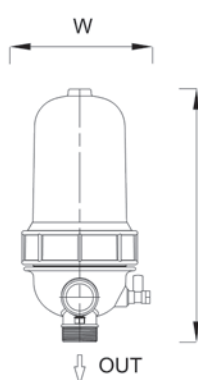
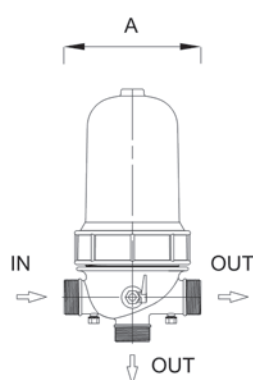
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Dimensions and Weights

D Inlet\Outlet diameter	mm	50	inch	2
L Length	mm	425	inch	16 ²³ / ₃₂
W Width	mm	215	inch	8 ¹⁴ / ₃₂
A	mm	230	inch	9 ¹ / ₁₆
Shipping weight (approx.)	kg	3.2	lbs	7



2" Leader is available in:
Polypropylene.



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3" Twin

Manual Disc Filter

Features

- Precise disc filtration
- High flow capacity
- Durable filter element
- All plastic-corrosion free

Manual Filters



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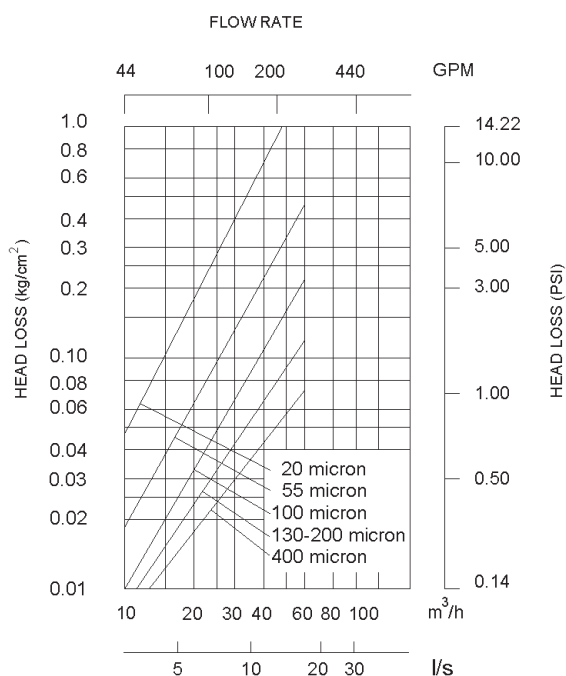
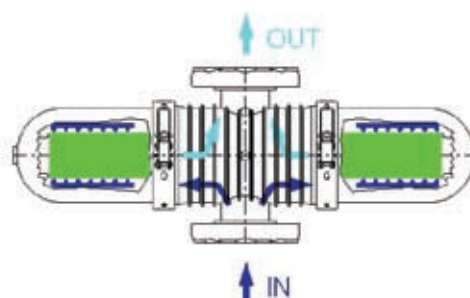
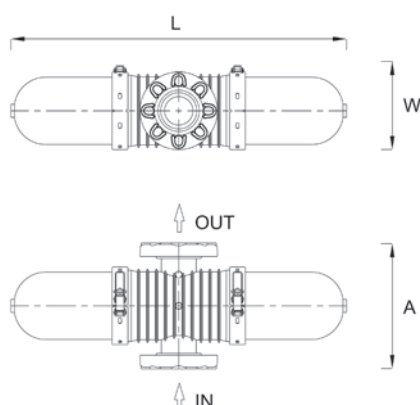
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Dimensions and Weights

D Inlet/Outlet diameter	mm	90	inch	3
L Length	mm	865	inch	34 1/16
W Width	mm	217	inch	8 9/16
A	mm	320	inch	12 19/32
Shipping weight (approx.)	kg	9.85	lbs	21.7



3" Twin is available in:
Polyamide.



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3" Leader

Manual Disc Filter

Features

- Durable filter element
- Corrosion free
- All Polypropylene
- Precise disc filtration

Manual Filters



Technical Data

	METRIC		US	
Connection diameter	mm	90	in	3
Filtration surface area	cm ²	1,900	in ²	294
Filtration volume	cm ³	2,450	in ³	150
Pressure rating	bar	10	psi	145
Max. temp.	°C	70	°F	158

Maximum Filtration Flow Rate / Water Quality

Filtration Grade	Water Quality	m ³ /h	gpm
400-130 µ	Good	50	220
	Average	35	154
55 µ	Good	32	141
	Average	22	97
20 µ	Good	16	70
	Average	11	48.4



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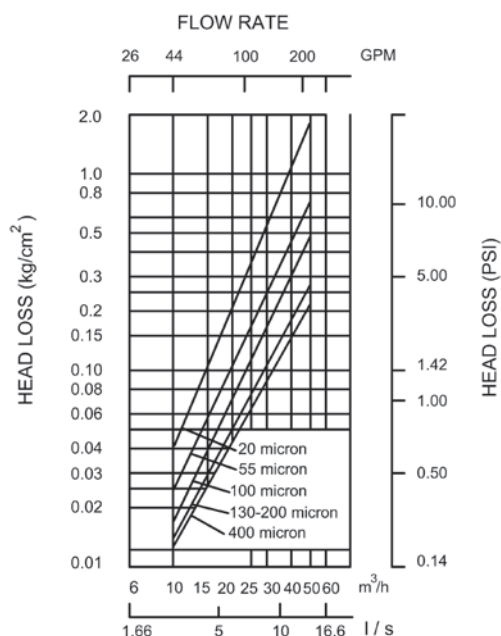
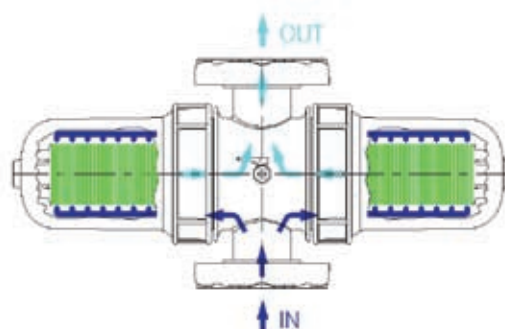
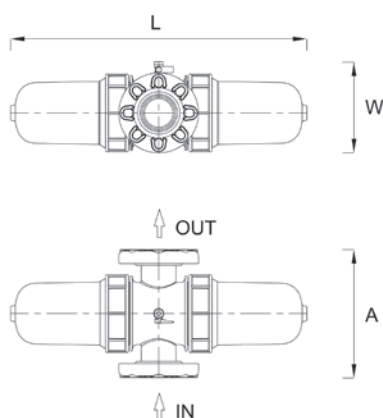
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Dimensions and Weights

D Inlet/Outlet diameter	mm	90	inch	3
L Length	mm	742	inch	29 7/32
W Width	mm	228	inch	8 3/32
A	mm	320	inch	12 19/32
Shipping weight (approx.)	kg	6.3	lbs	13.9



3" Leader Filter is available in:
Polypropylene.



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