



whaleab
P.K.S Group

Manufacturer
of Drip and Sprinkler
Irrigation Equipment

WHALEAB





A replacement of hard PE in drip irrigation and water delivering

- * Long-term reliability due to ANTI-UV materials that used to protect the pipe against solar radiation with one years of warranty
- *Manufactured by 3 layers that consist 2 layers of PE and 1 layers of polyester yarn
- *Easy and fast installation , rolling up and displacing
- *Economical in comparison with hard PE

Roll (m)	C.hz	Working pressure (bar)	Size in. / mm	
100	145	1/5	2/5	63
100	145	1/5	3	75
100	145	1/5	3/5	90
100	145	1/5	4/5	110
100	145	1/5	5	125
100	145	1/5	6/5	160

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Max laying length	LPH/m	Spraying width (m)	Uniformity coefficient	work pressure (bar)	Max Work pressure (bar)	Size
40	160	8	84%	0/8	1	1
70	160	8	84%	0/8	1	1 1/2
100	160	8	84%	0/8	1	2
125	160	8	84%	0/8	1	2 1/2

Note: Sparying Width is 4 meter from each side

Rain Spray tape a good replacement for classical sprinkler in low pressure irrigation system

- *Usable to all of cultivation in first step of irrigation
- *Suitable to vegetables, cereals and short stem plants
- *Easy and fast installation, rolling up and displacing



Dripper Spacing	Diameter	Thickness	Flow Rate	Work Pressure	Roll Length
cm	cm	mic	Lt/h	bar	m
10	16	160~200	2~4	1	1000
20	16	160~200	2~4	1	1000
30	16	160~200	2~4	1	1000

The **Flat Online Drip Irrigation Pipe** can be quickly and easily spread and collected by machine and hand and can be installed on the soil or under the soil. The necessary connections are available at a low cost and the maintenance of the system is easily possible. It is made of the best raw materials, which makes it more durable and long-lasting and resistant to heat and ultraviolet rays.

In addition, it has provided more strength against bursting and flexibility of tapes



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weight	hose	nominal	nominal	inner	color
(kg)	(m)	(bar)	(inch)	(mm)	
23	100	4	1 1/2	40	Blue
27	100	4	2	50.5	
33.5	100	4	2 1/2	63.5	
42	100	4	3	78	
28.5	50	4	4	104	
39	50	3.5	5	128	
50	50	3.5	6	153	

Leyflat Hose

Body

PVC reinfrcd by polyester fibers

Size

1 1/2" , 2" , 2 1/2" , 3" , 4" , 5" , 6"

Nominal pressure 4

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BUTTERFLY VALVES

Body	Alloy steel
Disc	Polymer
Shaft	Chrome/Iron
Bushing	SMR
Seat Ring	SMR-SBR
Size	3" , 4" , 5"
Operation	Lever/Gear/Actuator-Pneumatic
Valve Rating	PN16
Ends	Wafer



BUTTERFLY VALVES

Body	Alloy steel
Disc	Alloy steel
Shaft	Chrome/Iron
Bushing	SMR
Seat Ring	SMR-SBR
Size	2" , 3" , 4" , 5" , 6" , 8"
Operation	Lever/Gear/Actuator-Pneumatic
Valve Rating	PN16
Ends	Wafer



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Irrigation Disc Filter

Disc filter is designed and produced for quantitative improvement in dissolve solids separation of water.

advantages:

helical effect, less cleaning frequency and maintenance

Filtration in depth with grooved disc.

Modularity and compatibility for wide range of flows.

technical plastic permits all type of water even sea water
resistance to high pressure, no leakage.

easy installation and maintenance without tooling.

Stainless steel belt.

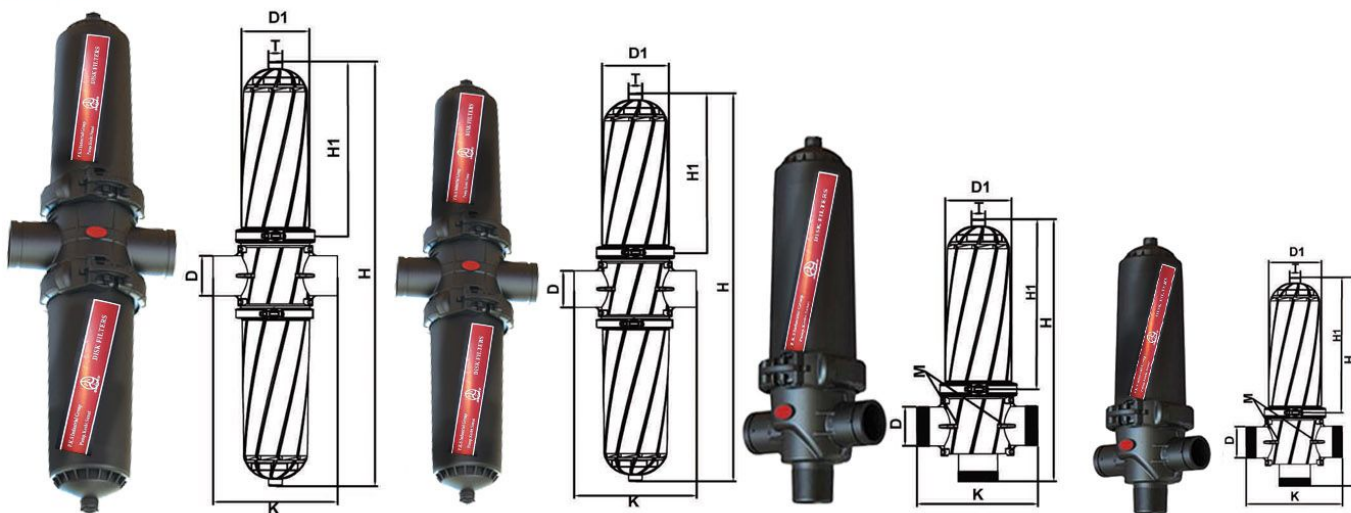
Water and energy saver.



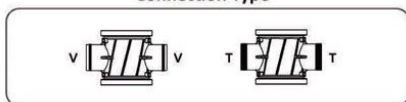
Mini or small filters, which are called disk or mesh filters with a low height (maximum 30 to 40 cm) have smaller components than medium filters and have a cheaper price.

Irrigation Mini Disc Filter

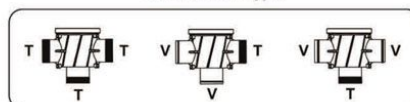
Connection	1 1.2 BSP	
Maximum Recommended Flow	20m ³ /h	88 gpm
Fitering Surface(Discs)	535cm ²	83in ²
Fitering Surface(Screen)	90cm ²	76in ²



Connection Type



Connection Type



V : Victaulic

T : Threaded

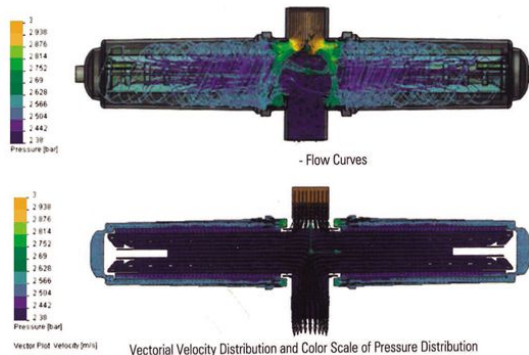
T • Threaded

V • Victaulic

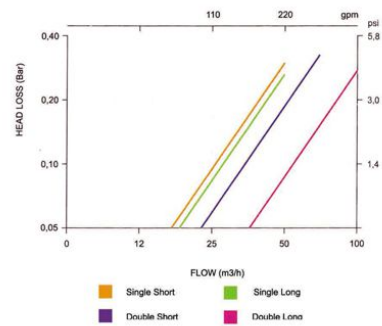
Connection Typ		D	D1	H	H1	K	T	M	Flow	Max Pressure (Bar)	Weight (Kg/g)
Range	Connection Typ	(Inch)	(mm)	(mm)	(mm)	(mm)	(Inch)	(Inch)	(m3/h)		
Short	T x T	2"x2"	185	1000	400	340	3/4"	1/4"	50	10	12,50
Short	V x V	2"x2"	185	1000	400	340	3/4"	1/4"	50	10	12,50
Long	T x T	2"x2"	185	1230	515	340	3/4"	1/4"	60	10	14,50
Long	V x V	2"x2"	185	1230	515	340	3/4"	1/4"	60	10	14,50
Short	T x T	3"x3"	185	1000	400	340	3/4"	1/4"	50	10	12,50
Short	V x V	3"x3"	185	1000	400	340	3/4"	1/4"	50	10	12,50
Long	T x T	3"x3"	185	1230	515	340	3/4"	1/4"	60	10	14,50
Long	V x V	3"x3"	185	1230	515	340	3/4"	1/4"	60	10	14,50
Short	T x T	4"x4"	185	1000	400	340	3/4"	1/4"	70	10	12,50
Short	V x V	4"x4"	185	1000	400	340	3/4"	1/4"	70	10	12,50
Long	T x T	4"x4"	185	1230	515	340	3/4"	1/4"	90	10	14,50
Long	V x V	4"x4"	185	1230	515	340	3/4"	1/4"	90	10	14,50

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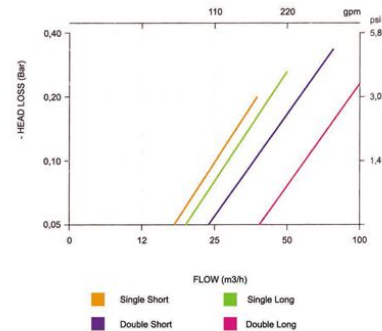
Technical Report of Plastic Disc Filter



Disk filter Head Loss

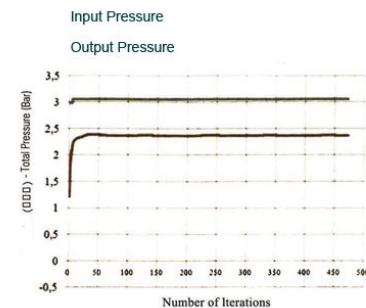


Disk filter Head Loss



Technical Specs

Body	Fiberglass reinforced polyamide
Cartridge	PP Disc Stainless steel
Clamp	Stainless steel
O rings	Rubber





Reducing Bush

Material A.B.S(Acrylonitrile Butadiene Styrene)

Size

- 2 * 1
- 2 * 1.1/2
- 2 * 1.1/4
- 2.1/2 * 2
- 2.1/2 * 1.1/2
- 2.1/2 * 1.1/4
- 2.1/2 * 1
- 1.1/2 * 1.1/4
- 1.1/2 * 1
- 1.1/2 * 3/4



Nipple

Material P.P(Polypropylene)

Size 2.1/2"
2"
1.1/2"
1"



Equal Bush

Material P.P(Polypropylene)

Size 1"
2"
1.1/2"



Male-Threaded End Cap

Material P.P(Polypropylene)

Size 2.1/2"

2"

1.1/2"

1"



Elbow

Material P.P(Polypropylene)

Size 2"



Mainline to dripline connector with valve

Size 16

Material P.P(Polypropylene)



Mini valve 1/2

Size 16

Material P.P(Polypropylene)



1/2 Male Threaded to Dripline Connector

Size 16

Material P.P(Polypropylene)



Male Threaded Barbed Mini Valve For Pipe

Size 16

Material P.P(Polypropylene)



LayFlat Spiral Offtake Mini Valve With Nut

Size 16

Material P.P(Polypropylene)



Tape to tape connector valve

Size 16

Material P.P(Polypropylene)



Mainline to dripline connector with valve

Size 16

Material P.P(Polypropylene)



LayFlat Spiral Offtake Mini Valve With Nut

Size 16

Material P.P(Polypropylene)



Mini valve 16*1/2

Size 16

Material P.P(Polypropylene)



Male threaded barbed mini valve for pipe

Size 16

Material P.P(Polypropylene)



16 to Drip Tape Connector

Size 16

Material P.P(Polypropylene)



Tape to Tape connector

Size 16

Material P.P(Polypropylene)



Layflat to Drip Tape Connector

Size 16

Material P.P(Polypropylene)



Layflat End Cap

Size 16

Material P.P(Polypropylene)



LayFlat Spiral Offtake Mini Valve With Nut

Size 16

Material P.P(Polypropylene)



Layflat to Drip Tape Connector

Size 16

Material P.P(Polypropylene)



Layflat End Cap

Size 16

Material P.P(Polypropylene)



Silicone Rubber Washer

Size 16

Material P.P(Polypropylene)



Rubber Washer

Size 16

Material P.P(Polypropylene)



Silicone Rubber Closure

Size 16

Material P.P(Polypropylene)



Rubber Closure

Size 16

Material P.P(Polypropylene)



2 Nozzle Adjustable Online Dripper

Size 16

Material P.P(Polypropylene)



6 Nozzle Adjustable Online Dripper

Size 16

Material P.P(Polypropylene)



Male Thrfaded End Plug

Size 16

Material P.P(Polypropylene)



Hose End Closure

Size 16

Material P.P(Polypropylene)



Tee Connector with Dripper

Size 16

Material P.P(Polypropylene)



Reducing Coupling Connection

Size 16

Material P.P(Polypropylene)



Connection Tee

Size 16

Material P.P(Polypropylene)



Branch Connection

Size 16

Material P.P(Polypropylene)



6 meter Sprinkler pipe with aluminum hook (A grade)

Size	50	63	75	90	110	125
Work Pressure	4 Bar	5 Bar	6 Bar			



12 meter Sprinkler pipe with aluminum hook (A grade)

Size	50	63	75	90	110	125
Work Pressure	4 Bar	5 Bar	6 Bar			



6 meter Sprinkler pipe with aluminum hook (B grade)

Size	50	63	75	90	110	125
Work Pressure	4 Bar	5 Bar	6 Bar			



12 meter Sprinkler pipe with aluminum hook (B grade)

Size	50	63	75	90	110	125
Work Pressure	4 Bar	5 Bar	6 Bar			



6 meter Sprinkler pipe with polymer hook (B grade)

Size	50	63	75
Work Pressure	4 Bar	5 Bar	6 Bar



12 meter Sprinkler pipe with polymer hook (B grade)

Size	50	63	75
Work Pressure	4 Bar	5 Bar	6 Bar



Male and female coupling with polyethylene hook

Size	50	63	75	90	110	125
------	----	----	----	----	-----	-----



Male and female coupling with aluminum hook

Size	50	63	75	90	110	125
------	----	----	----	----	-----	-----



Abot with aluminum hook

Size	63*1	75*1	90*1
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Abot with polymer hook

Size	63*1	75*1
------	------	------



Male pump connection

Size	50	63	75	90	110
------	----	----	----	----	-----



Female pump connection

Size	50	63	75	90	110
------	----	----	----	----	-----



Female cap

Size	63	75	90	110	125
------	----	----	----	-----	-----



Packing

Size	63	75	90	110	125
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Female connector with flange

Size	63	75	90	110	125



Male connector with flange

Size	63	75	90	110	125



Outlet nipple

Size	63*16	75*16



Valve

Size	63	75



Tee					
Size	63	75	90	110	125



Connector					
Size	63	75	90	110	125



Elbow					
Size	63	75	90	110	125



Male head tube					
Size	63	75	90	110	125

Quick coupling cross

Size	110*110*110*110
	110*63*110*63
	110*75*110*75
	110*90*110*90
	125*125*125*125
	125*63*125*63
	125*75*125*75
	125*90*125*90
	125*110*125*110



Reducer Tee

Size	75 * 63 * 75
	90 * 63 * 90
	90 * 75 * 90
	110 * 63 * 110
	110 * 75 * 110
	110 * 90 * 110
	125 * 63 * 125
	125 * 75 * 125
	125 * 90 * 125
	125 * 110 * 125



Reduction

Size	75 * 50
	75 * 63
	90 * 63
	90 * 75
	110 * 63
	110 * 75
	110 * 90
	125 * 63
	125 * 75
	125 * 90
	125 * 110





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