



# FILTRATION

# CATALOGUE



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# FILTRATION QUICK REFERENCE CHART

		FLOW RATE M³ / HR																											
Model		Size mm	5	10	15	20	25	30	35	40	50	60	70	80	90	100	120	140	160	180	200	220	240	250	300	400	500	600	
1115	SCREEN	40																											
1220		50																											
1320		50																											
1430		80																											
2010	SCREEN	100																											
2015		40																											
2020		50																											
2030		80																											
2040		100																											
2060		150																											
4121	MEDIA	25																											
41615		40																											
4202		50																											
4203		80																											
4242		50																											
4243		80																											
4303		80																											
4363		80																											
4484		100																											
4604		100																											
50307	HYDROCYCLONE	20																											
50410		25																											
50615		40																											
50820		50																											
50830		80																											
51243		100/80																											
51640		150/100																											
52060		150																											
85107	SELF CLEANING	20																											
85101		25																											
851D15		40																											
851D02		50																											
851D03		80																											
851D04		100																											
851D04L		100																											
851D06		150																											
851D08		200																											
851D08L		200																											
NF1M	ADIR	25																											
NF112M		40																											
NF2M		50																											
NF3M		80																											
SAF2M	S/AUTO	50																											
SAF3M		80																											



# ODIS FILTERS





## Selecting ODIS Filters

ODIS Ltd., manufactures filters, separators manifolds, filtering equipment and modular filter-arrays, designed to achieve the highest standards of quality and finish thus providing long lasting reliable and trouble-free operation.

To obtain the desired level of filtering quality, appropriate filtering equipment must be selected, taking into consideration the water source and the varying types and quantities of water impurities. It should always be kept in mind that there is no single filtering system that filters all kinds of water impurities.

**To help make a preliminary choice of filters, the main points to consider are:**



- Maximum and minimum water pressure
- Future needs and modifications
- Type of irrigation system (sprinklers, micro sprinklers or drip irrigation)
- Type and quantity of impurity in the water
- Required water flow (capacity)
- Required water quality
- Required filtration (mesh size or microns)

Type of Impurity	Filtration Solutions
<ul style="list-style-type: none"> <li>• Sand (Wells)</li> </ul>	<ul style="list-style-type: none"> <li>• Hydrocyclone Separators</li> <li>• Automatic Circulation Filters</li> </ul>
<ul style="list-style-type: none"> <li>• Algae</li> <li>• Organic Matter (River Water, Reservoirs)</li> </ul>	<ul style="list-style-type: none"> <li>• Media Filters</li> <li>• OdisMatic® Filters</li> <li>• Automatic Circulation Filters (According to dirt quantities)</li> </ul>
<ul style="list-style-type: none"> <li>• Suspended Solids</li> <li>• Silt (Rivers, Lakes, Channels)</li> </ul>	<ul style="list-style-type: none"> <li>• Media Filters</li> </ul>
<ul style="list-style-type: none"> <li>• Wastewater Reuse (Wastewater after secondary treatment)</li> </ul>	<ul style="list-style-type: none"> <li>• Multi-Media Filters</li> <li>• OdisMatic® Filters (According to dirt quantities)</li> </ul>



# MANUAL SCREEN FILTER - SERIES 1000

Odis series 1000 are mainly used as a Control filter in agricultural applications and filtering small quantities of water impurities.

## Features

- Series 1000 has a horizontal side inlet and bottom vertical outlet
- Mainly used as a control filter in agriculture
- Filter sizes available: 40mm, 50mm Short Body and 50mm Long Body
- Four mesh sizes available - 40mesh, 60mesh, 80mesh and 120mesh
- Each filter is equipped with a drain valve located at the bottom of the filter
- Cover can be easily removed for servicing and cleaning
- Other mesh sizes available on request

## Applications

- Primary filtration for clean ground water
- Secondary filtration for Media Filter batteries and Sand Separators

## Specifications

Recommended Flow Range:	250lpm - 500lpm
Maximum recommended working pressure:	800kPa
Maximum pressure:	1000kPa
End Connection Type:	Threaded
Installation:	Vertical



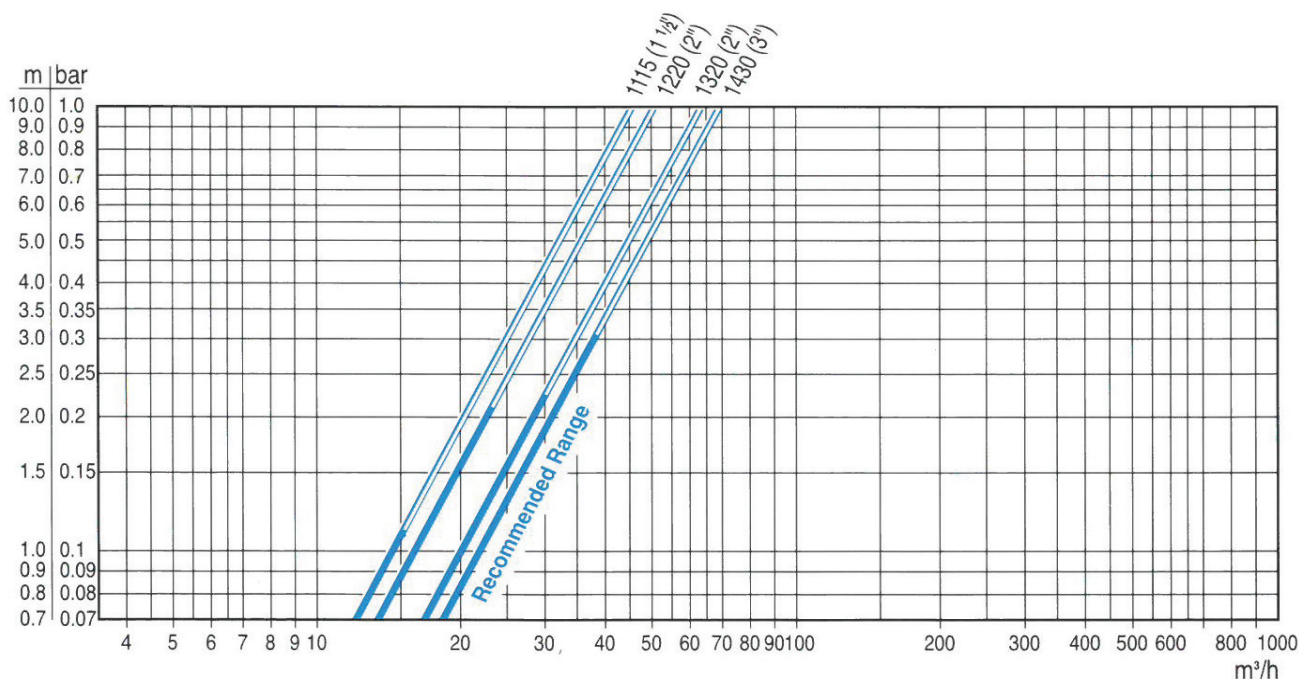
Part No.	Description
<b>40mm Flow Range: Up to 250lpm</b>	
OD1115	40mm Vertical Screen Filter body only
OD1115-XXX	40mm Vertical Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000401/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 &120)
<b>50mm Short Body Flow Range: Up to 383lpm</b>	
OD1220	50mm Vertical Screen Filter short body only
OD1220-XXX	50mm Vertical Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000411/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 &120)
<b>50mm Long Body Flow Range: Up to 500lpm</b>	
OD1320	50mm Vertical Screen Filter long body only
OD1320-XXX	50mm Vertical Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000412/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 &120)

# MANUAL SCREEN FILTER - SERIES 1000

## Head Loss

Model	Flow Rate Q (m³ /h)										
	10	15	20	25	30	35	40	45	50	60	70
	Head Loss dP (bar)										
1115	0.05	0.11	0.20	0.31	0.44	0.60	0.79	1.00	1.23		
1220	0.04	0.09	0.16	0.25	0.36	0.49	0.64	0.81	1.00	1.44	
1320		0.06	0.10	0.16	0.23	0.32	0.42	0.53	0.65	0.94	1.27
1430		0.05	0.09	0.14	0.20	0.27	0.36	0.45	0.56	0.80	1.09

## Head Loss / Flow Rate



★★ For a clean filter and 120 mesh screen.

■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C.)=14.5 psi

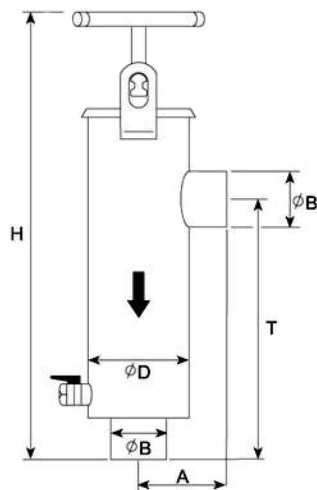
Mesh Sizing Chart											
Micron	841	400	297	250	177	149	125	105	88	74	63
Mesh	20	<b>40</b>	50	<b>60</b>	<b>80</b>	100	<b>120</b>	140	170	200	230
MM	0.841	0.400	0.297	0.250	0.177	0.149	0.125	0.105	0.088	0.074	0.063

\* Other mesh sizes available on request



## MANUAL SCREEN FILTER - SERIES 1000

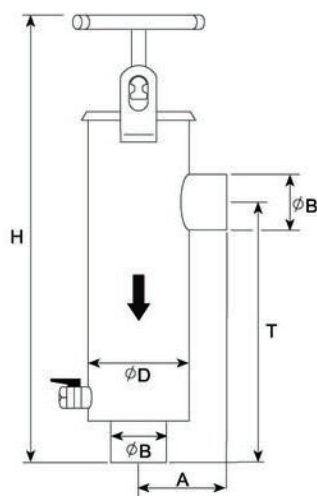
### FILTER DIMENSIONS



40mm

#### Filter Dimensions

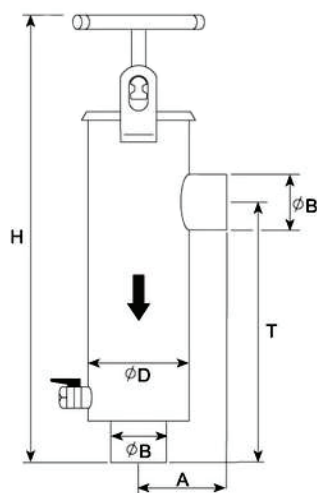
A: 97mm  
B: 40mm  
D: 100mm  
H: 420mm  
T: 233mm



50mm Short Body

#### Filter Dimensions

A: 134mm  
B: 50mm  
D: 150mm  
H: 480mm  
T: 170mm



50mm Long Body

#### Filter Dimensions

A: 135mm  
B: 50mm  
D: 150mm  
H: 730mm  
T: 265mm



# MANUAL INLINE SCREEN FILTER - SERIES 2000

Odis series 2000 are mainly used as a Control filter in agricultural applications and filtering small quantities of water impurities.

## Features

- Series 2000 has a horizontal inlet and outlet
- Mainly used as a control filter in agriculture
- Filter sizes available: 40mm, 50mm, 80mm, 100mm & 150mm
- Four mesh sizes available - 40mesh, 60mesh, 80mesh and 120mesh
- Cover can be easily removed for servicing and cleaning

## Applications

- Primary filtration for clean ground water
- Secondary filtration for Media Filter batteries and Sand Separators

## Specifications

Recommended Flow Range:	250lpm - 3000lpm
Maximum recommended working pressure:	800kPa
Maximum pressure:	1000kPa
End Connection Type:	Threaded (40& 50mm) & Flanged (80,100,150mm)
Installation:	Horizontally with body pointing upwards (drain valve downwards)



Part No.	Description
<b>40mm Flow Range: Up to 250lpm</b>	
OD2015	40mm Y Pattern Screen Filter body only
OD2015-XXX	40mm Y Pattern Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000401/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 & 120)
<b>50mm Flow Range: Up to 500lpm</b>	
OD2020	50mm Y Pattern Screen Filter body only
OD2020-XXX	50mm Y Pattern Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000411/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 & 120)
<b>80mm Flow Range: Up to 666lpm</b>	
OD2030	80mm Y Pattern Screen Filter body only
OD2030-XXX	80mm Y Pattern Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000412/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 & 120)
<b>100mm Flow Range: Up to 1333lpm</b>	
OD2040	100mm Y Pattern Screen Filter body only
OD2040-XXX	100mm Y Pattern Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000413/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 & 120)
<b>150mm Flow Range: Up to 3000lpm</b>	
OD2260	150mm Y Pattern Screen Filter body only
OD2260-XXX	150mm Y Pattern Screen Filter with Stainless Steel screen complete (please specify mesh size required)
ODE000425/XXX	Stainless Steel Mesh Replacement Screen (40,60,80 & 120)





# MANUAL INLINE SCREEN FILTER - SERIES 2000

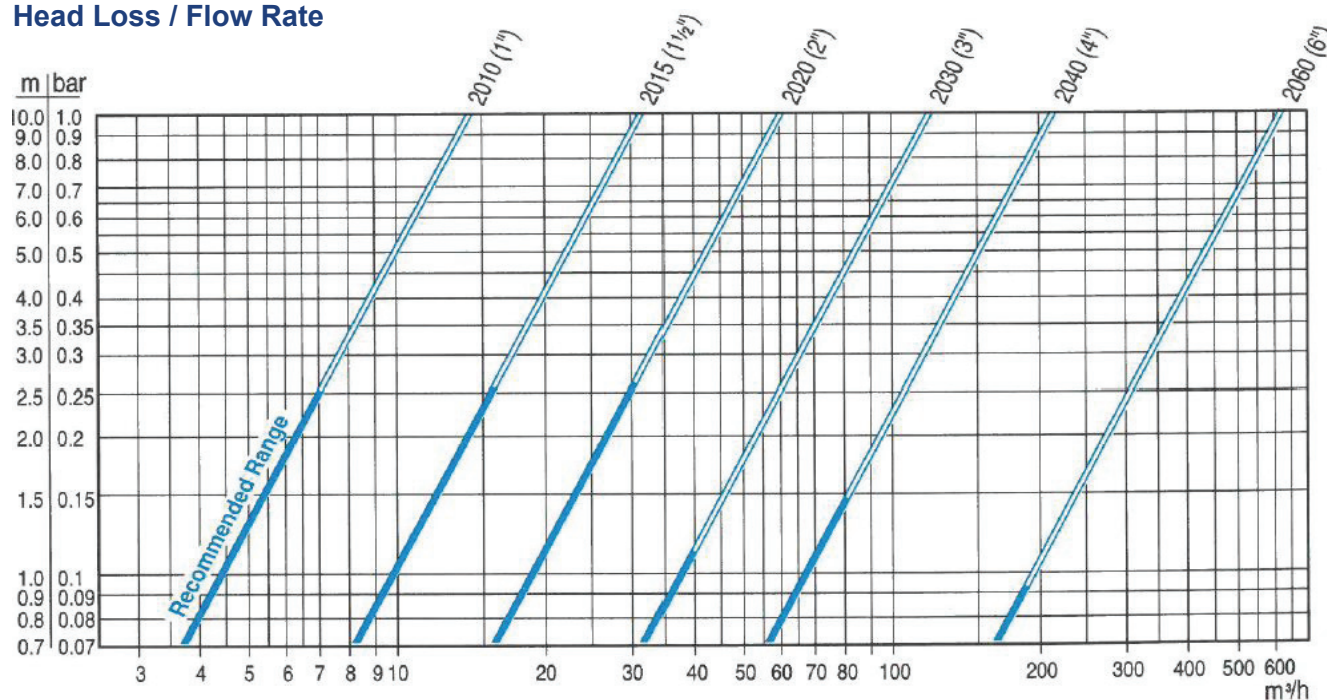
## Head Loss

Model	Flow Rate Q (m³ /h)											
	2.5	5	7.5	10	15	20	25	30	35	40	50	60
	Head Loss dP (bar)											
2010	0.03	0.12	0.27	0.48	1.07							
2015			0.06	0.10	0.23	0.42	0.65	0.94	1.27			
2020					0.06	0.11	0.17	0.24	0.33	0.43	0.67	0.97

## Head Loss

Model	Flow Rate Q (m³ /h)												
	30	40	50	60	80	100	120	140	160	180	200	220	240
	Head Loss dP (bar)												
2030	0.06	0.11	0.17	0.25	0.44	0.69	1.00						
2040			0.05	0.08	0.14	0.22	0.31	0.42	0.55	0.70	0.87	1.05	
2060						0.03	0.04	0.05	0.07	0.08	0.10	0.13	0.15

## Head Loss / Flow Rate

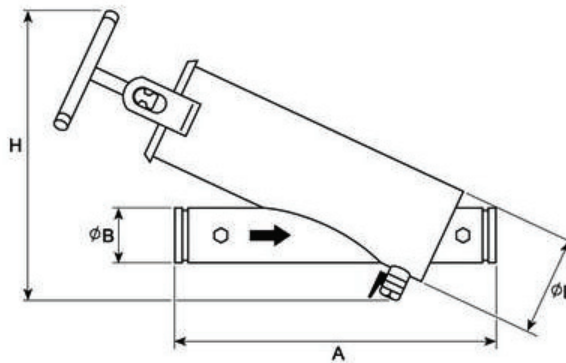


★★ For a clean filter and 120 mesh screen.

■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C)=14.5 psi

# MANUAL INLINE SCREEN FILTER - SERIES 2000

## FILTER DIMENSIONS



40mm

### Filter Dimensions

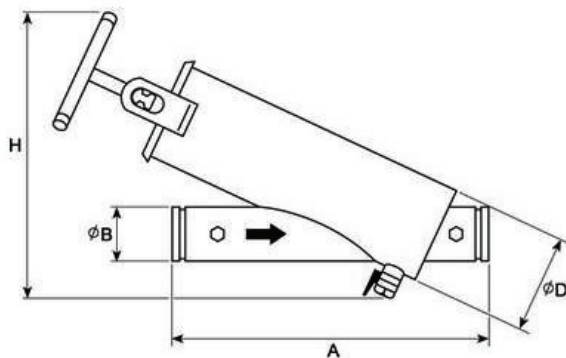
A: 330mm

B: 40mm

D: 100mm

H: 380mm

Threaded End Connection



50mm

### Filter Dimensions

A: 470mm

B: 50mm

D: 150mm

H: 465mm

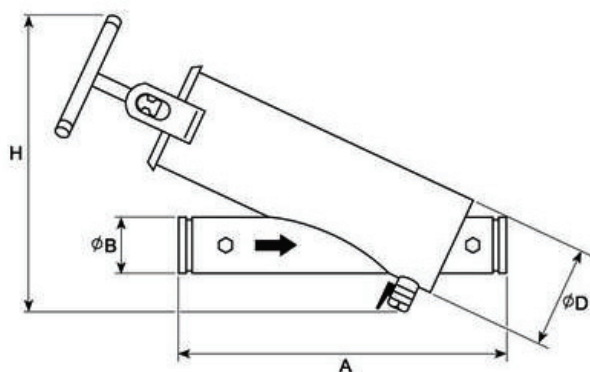
Threaded End Connection





## MANUAL INLINE SCREEN FILTER - SERIES 2000

### FILTER DIMENSIONS



**80mm**

#### Filter Dimensions

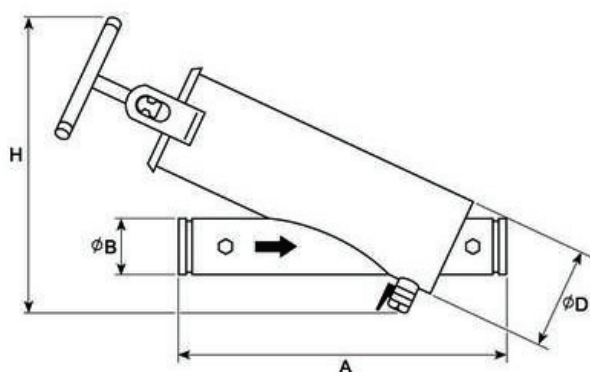
**A:** 555mm

**B:** 80mm

**D:** 150mm

**H:** 530mm

Flanged End Connection



**100mm**

#### Filter Dimensions

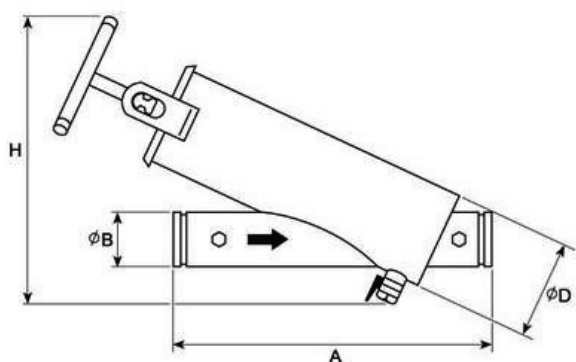
**A:** 690mm

**B:** 100mm

**D:** 200mm

**H:** 640mm

Flanged End Connection



**150mm**

#### Filter Dimensions

**A:** 900mm

**B:** 150mm

**D:** 300mm

**H:** 705mm

Flanged End Connection

## MEDIA FILTER - SERIES 4000

Odis series 4000 gravel or sand filters, are most efficient for the filtration of water heavily contaminated with algae, organic matter and other impurities, such as in open reservoirs and recycled water systems.

### Operating Principle:

Water enters the filter via the inlet located on top of tank and spreads evenly on the media. Dirt particles and organic materials are trapped on the media surface. The clean water percolates through the media and flows out via the filter elements. The cleaning backwash process is done by shutting the inlet of the filter and allowing water to enter from the bottom, lifting the media and releasing the dirt particles that exit the filter through the top drain pipe. This process can be controlled automatically.

### Features

- Series 4000 filters use a unique design based on a bottom double-chamber, divided by a steel plate covered by “mushroom shape” diffusers
- These diffusers disperse water evenly, using effectively the whole filter's volume, which avoids the occurrence of channeling or caking
- Uses media for depth filtration
- Modular design - suitable for use in arrays for various flow rates
- 120 micron extra-durable polyester, applied electrostatically and oven-cured on a zinc-phosphate layer for maximal anti-corrosion protection

### Applications

- Used as a Primary filter for water from open reservoirs and recycled water
- Most effective for filtration of water heavily contaminated with algae and organic matter

### Specifications

Media size:	0.8mm - 1.2mm crushed quartz
Recommended Flow Range:	Up to 466lpm (Tank sizes: 300mm - 600mm Diameter)
Maximum recommended working pressure:	800kPa
Maximum pressure:	1000kPa
End Connection Type:	Threaded



Part No.	Description
<b>300mm Flow Range: Up to 100lpm</b>	
OD4121	300mm Diameter x 25mm Female BSP thread Media Filter
<b>400mm Flow Range: Up to 183lpm</b>	
OD41615	400mm Diameter x 40mm Female BSP thread Media Filter
<b>500mm Flow Range: Up to 300lpm</b>	
OD4202	500mm Diameter x 50mm Female BSP thread Media Filter
<b>600mm Flow Range: Up to 466lpm</b>	
OD4242	600mm Diameter x 50mm Female BSP thread Media Filter

\* See chart for recommended flow rates



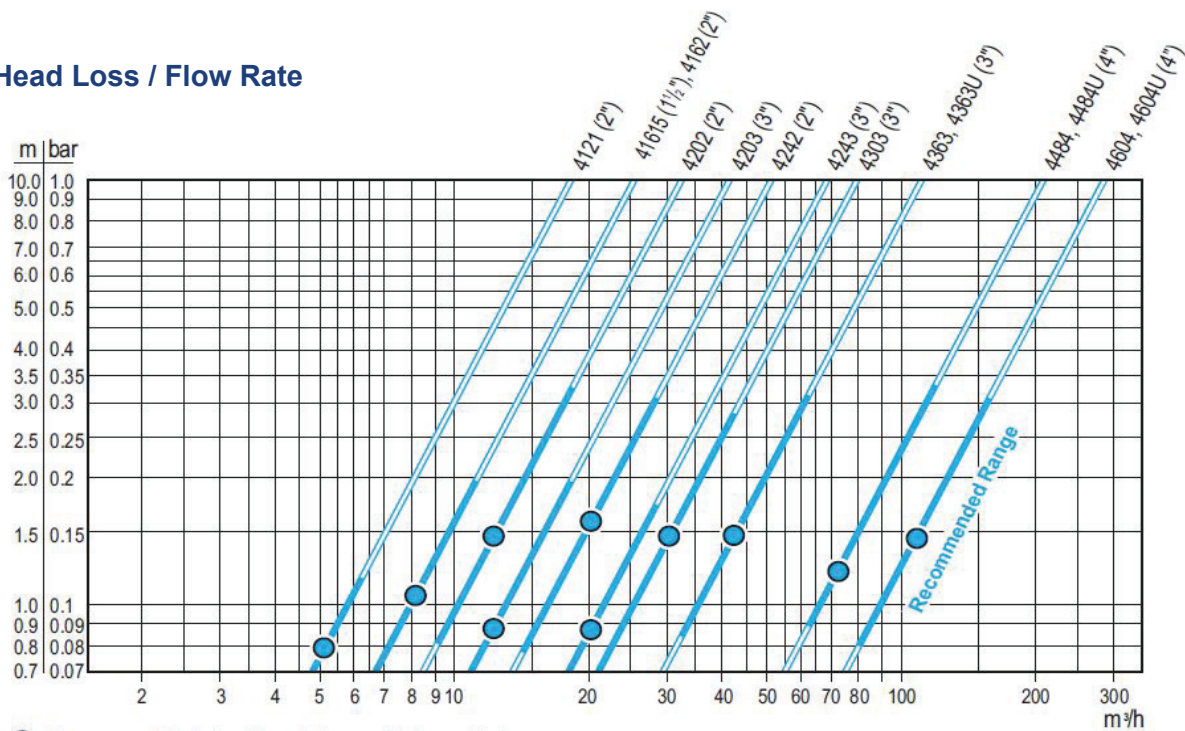
## MEDIA FILTER - SERIES 4000

### Head Loss

Model	Flow Rate Q (m³ /h)												
	5	10	15	20	25	30	35	40	45	50	55	60	70
	Head Loss dP (bar)												
4121	0.08	0.31	0.69	1.23									
41615	0.04	0.16	0.36	0.64	1.00	1.44							
4202		0.10	0.22	0.39	0.61	0.88	1.20						
4203		0.06	0.13	0.24	0.37	0.54	0.73	0.95	1.20	1.49			
4242		0.04	0.09	0.15	0.24	0.35	0.47	0.62	0.78	0.96	1.16		
4243				0.09	0.14	0.19	0.26	0.35	0.44	0.54	0.65	0.78	1.06

Model	Flow Rate Q (m³ /h)															
	20	30	40	50	60	70	80	90	100	110	130	150	180	200	220	250
	Head Loss dP (bar)															
4303	0.06	0.14	0.26	0.40	0.58	0.79	1.03									
4363		0.07	0.13	0.20	0.28	0.38	0.50	0.63	0.78	0.95						
4484				0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.39	0.53	0.76	0.93	1.13	
4604					0.05	0.06	0.08	0.10	0.13	0.15	0.21	0.28	0.41	0.50	0.61	0.79

### Head Loss / Flow Rate



● Average Point - Head Loss / Flow Rate

■ 1 bar=100 kPa=1.02 kg/cm<sup>2</sup>=10.2 m (W.C)=14.5 psi

\* Please check with your HR Sales Representative for stock availability





## **MEDIA FILTER - SERIES 4000**

### **Recommended Flow Rates**

Model	Inlet/ Outlet Diameter	Body Diameter	Recommended Flow Rate *			
			Minimum	Average*	Maximum	Back Flushing
	mm	mm	m³/h	m³/h	m³/h	m³/h
4121	25	300	3.5	5	6	7
41615	40	400	6	8	11	10
4202	50	500	9	12	18	15
4203	80	500	10	12	18	15
4242	50	600	14	20	28	25
4243	80	600	14	20	28	25
4303	80	750	21	30	42	38
4363	80	900	32	42	62	54
4484	100	1200	62	72	120	95
4604	100	1500	80	110	150	150

\* Average water quality

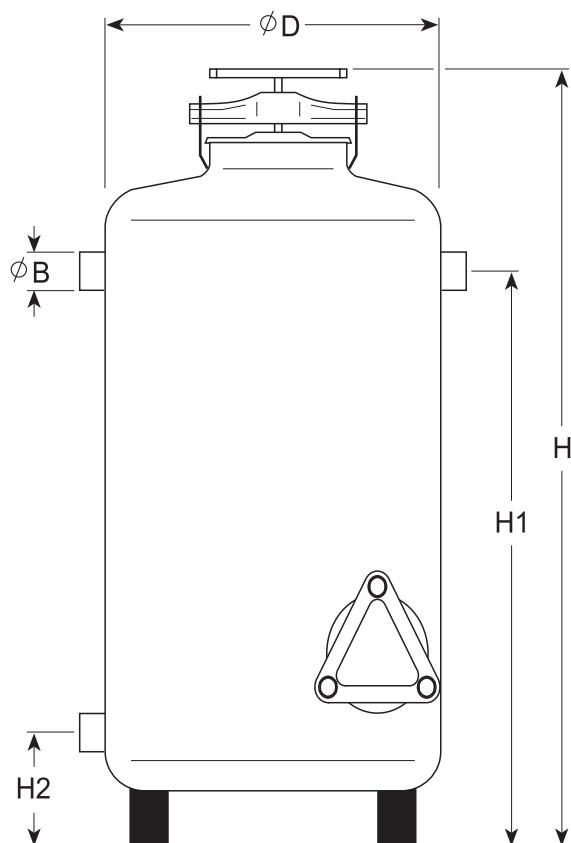
\*\* For dirty water reduce the flow rate

\*\*\* Larger tanks available upon request



## MEDIA FILTER - SERIES 4000

### FILTER DIMENSIONS



#### OD4121

##### Filter Dimensions

**B:** 25mm  
**D:** 300mm  
**H:** 1150mm  
**H1:** 775mm  
**H2:** 120mm  
 Threaded End Connection

#### OD41615

##### Filter Dimensions

**B:** 40mm  
**D:** 400mm  
**H:** 1250mm  
**H1:** 870mm  
**H2:** 180mm  
 Threaded End Connection

#### OD4202

##### Filter Dimensions

**B:** 50mm  
**D:** 500mm  
**H:** 1250mm  
**H1:** 870mm  
**H2:** 180mm  
 Threaded End Connection

#### OD4242

##### Filter Dimensions

**B:** 50mm  
**D:** 600mm  
**H:** 1350mm  
**H1:** 950mm  
**H2:** 260mm  
 Threaded End Connection

### Gravel Filling

Models	Inlet / Outlet Diameters	Gravel Filling (kg)
OD4121	25mm	60
OD41615	40mm	90
OD4202	50mm	120
OD4242	50mm	180

## HYDROCYCLONE SAND SEPARATORS - SERIES 5000

The ODIS hydrocyclone separator is a simple device, easy to operate and maintain. It has no moving parts or screens. The hydrocyclone separates sand and other solid matter with very little head loss and 90% or better efficiency, no head loss build up and no clogging by solids being separated. Its versatility in system configurations and its economy in installation are some of its great advantages.

### Features

- The hydrocyclones use a tangential injection flow process, enhancing the centrifugal forces and moving solid particles outwards
- The dispersed particles move downwards in a spiral path into an underflow chamber, while clean liquid moves upwards to the centre of the spiral, towards the top outlet
- The underflow chamber can be drained manually or automatically without interfering with the proper functioning of the hydrocyclone
- Modular design - suitable for use in arrays for various flow rates
- 100 micron extra-durable polyester, applied electrostatically and oven-cured on a zinc-phosphate layer for maximal anti-corrosion protection

### Applications

- Used for separation of sand and other solid matter from water or other liquids
- Protects pump, valves and irrigation systems from damage and abrasion caused by suspended solids
- For agriculture, domestic, industrial and municipal use

### Specifications

Recommended Flow Range:	Up to 2666lpm
Maximum recommended working pressure:	800kPa
Maximum pressure:	1000kPa
End Connection Type:	Threaded (25,40&50mm) & Flanged (80,100,150mm)



Part No.	Description
<b>20mm Flow Range: 33lpm - 50lpm</b>	
OD50307	20mm Female BSP Hydrocyclone Sand Separator
<b>25mm Flow Range: 58lpm - 125lpm</b>	
OD50410	25mm Female BSP Hydrocyclone Sand Separator
<b>40mm Flow Range: 125lpm - 200lpm</b>	
OD50615	40mm Female BSP Hydrocyclone Sand Separator
<b>50mm Flow Range: 183lpm - 283lpm</b>	
OD50820	50mm Female BSP Hydrocyclone Sand Separator
<b>80mm Flow Range: 300lpm - 566lpm</b>	
OD50830	80mm Flanged Table D Hydrocyclone Sand Separator
<b>100mm Flow Range: 583lpm - 866lpm</b>	
OD51243	100mm Inlet / 80mm Outlet Flanged Table D Hydrocyclone Sand Separator
<b>150mm Flow Range: 1633lpm - 2666lpm</b>	
OD52060	150mm Flanged Table D Hydrocyclone Sand Separator

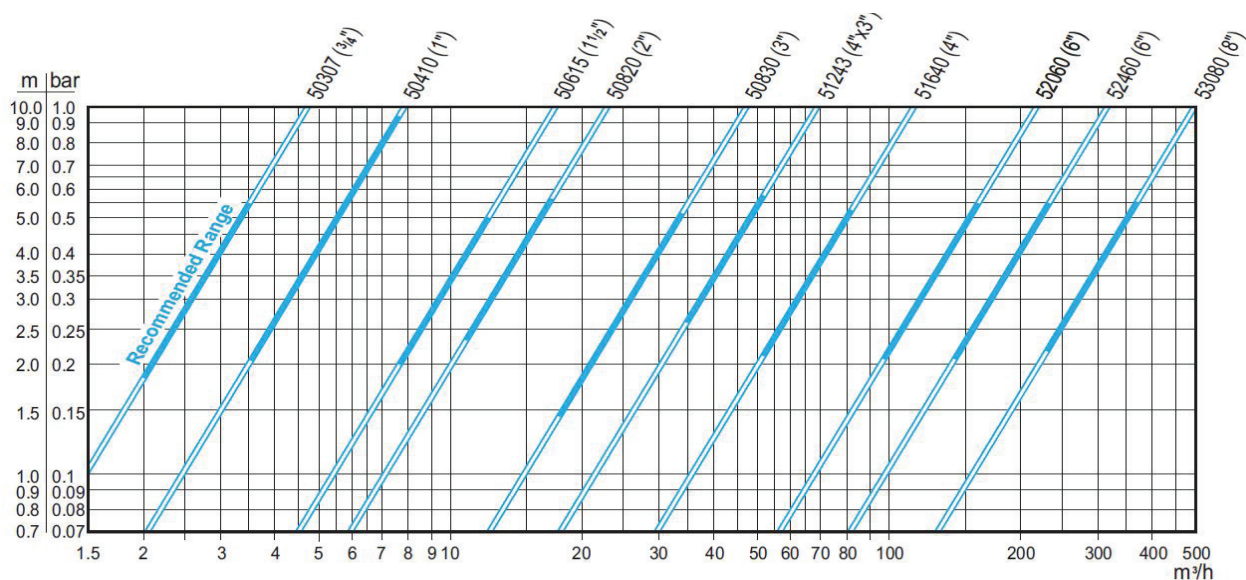


## HYDROCYCLONE SAND SEPARATORS - SERIES 5000

### Head Loss

Model	Head Loss dP (bar)					
	0.2	0.3	0.4	0.5	0.6	0.7
	Flow Rate Q (m³/h)					
50307	2.1	2.6	3.0	3.3	3.6	3.9
50410	3.4	4.2	4.9	5.4	6.0	6.4
50615	7.6	9.3	10.8	12.0	13.2	14.2
50820	10.1	12.4	14.3	16.0	17.5	18.9
50830	21.1	25.9	29.9	33.4	36.6	39.5
51243	30.4	37.2	43.0	48.1	52.7	56.9
51640	50.1	61.3	70.8	79.2	86.8	93.7
52060	96.2	117.8	136.0	152.0	166.5	179.9

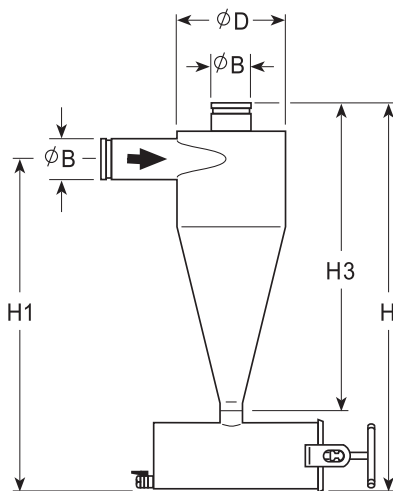
### Head Loss / Flow Rate



■ 1 bar=100 kPa=1.02 kg/cm<sup>2</sup>=10.2 m (W.C)=14.5 psi

# HYDROCYCLONE SAND SEPARATORS - SERIES 5000

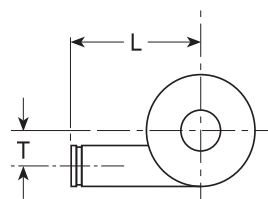
## FILTER DIMENSIONS



### OD50410

#### Filter Dimensions

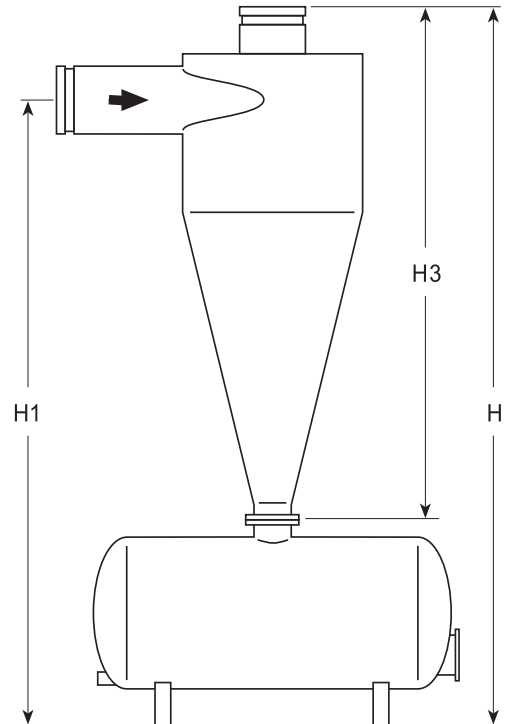
**B:** 25mm  
**D:** 100mm  
**H:** 460mm  
**H1:** 380mm  
**H3:** 345mm  
**L:** 140mm  
**T:** 40mm  
 Weight: 9kg  
 Threaded End Connection



### OD50615

#### Filter Dimensions

**B:** 40mm  
**D:** 150mm  
**H:** 720mm  
**H1:** 580mm  
**H3:** 480mm  
**L:** 240mm  
**T:** 61mm  
 Weight: 18kg  
 Threaded End Connection



### OD50820

#### Filter Dimensions

**B:** 50mm  
**D:** 200mm  
**H:** 735mm  
**H1:** 575mm  
**H3:** 530mm  
**L:** 295mm  
**T:** 80mm  
 Weight: 20kg  
 Threaded End Connection

### OD50830

#### Filter Dimensions

**B:** 80mm  
**D:** 200mm  
**H:** 830mm  
**H1:** 660mm  
**H3:** 625mm  
**L:** 300mm  
**T:** 65mm  
 Weight: 27kg  
 Flanged Table D

### OD51243

#### Filter Dimensions

**B:** 100mm in/ 80mm out  
**D:** 300mm  
**H:** 1330mm  
**H1:** 1130mm  
**H3:** 725mm  
**L:** 500mm  
**T:** 105mm  
 Weight: 66kg  
 Flanged Table D

### OD52060

#### Filter Dimensions

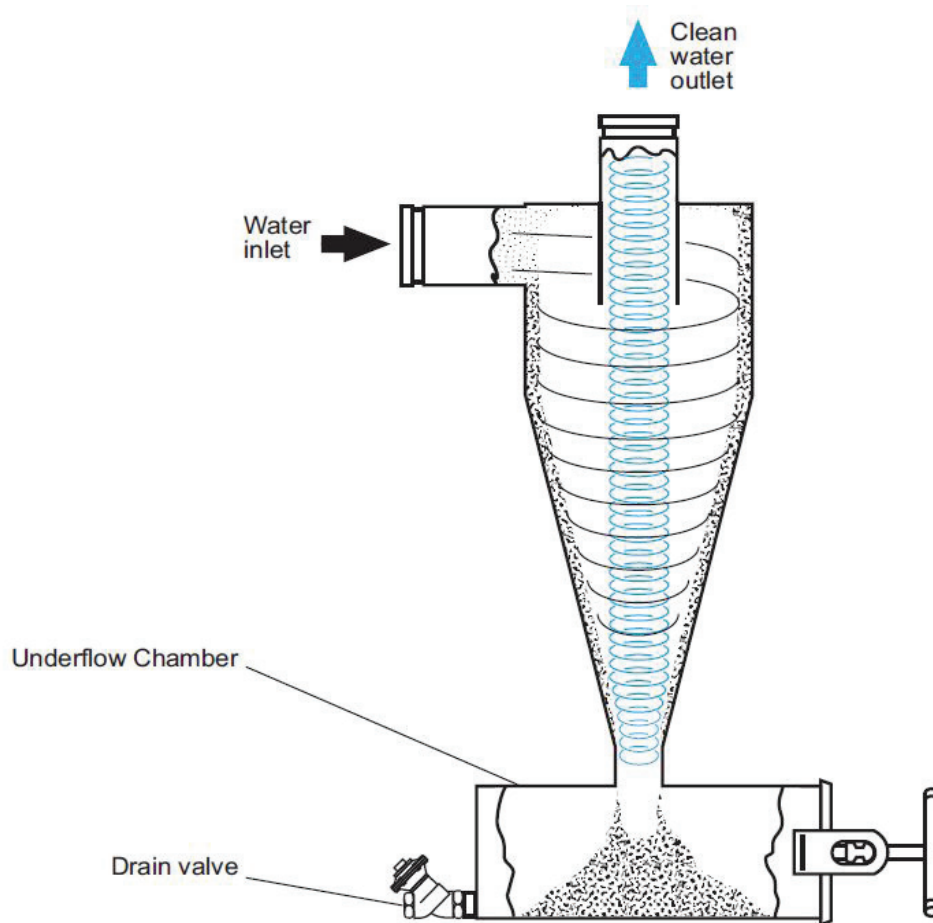
**B:** 150mm  
**D:** 500mm  
**H:** 1900mm  
**H1:** 1610mm  
**H3:** 1150mm  
**L:** 600mm  
**T:** 170mm  
 Weight: 172kg  
 Flanged Table D





## HYDROCYCLONE SAND SEPARATORS - SERIES 5000

### FLOW SCHEME OF HYDROCYCLONE AND MODE OF SEPARATION



## FERTILIZER TANKS - SERIES 6000

Odin fertilizer tanks series 6000 have been designed specifically for fertigation in agriculture. This system is simple, efficient and trouble-free.

The fertilizers are applied continuously during irrigation, either manually or controlled by an irrigation controller.

### Features

- Simple, efficient and trouble-free operation
- Very large opening port facilitates filling of tank and prevents spilling of fertilizer
- Neoprene gasket ensures hermetic sealing and long life service
- Standard models contain P.E tube to increase the efficiency of fertilizer mixing
- Rubber coated metal legs isolate the filter from the ground to prevent corrosion and damage to the protective coating
- Vacuum breaker (kinetic air valve) installed at tank outlet
- Designed and manufactured to achieve the highest standard of quality and finish
- The fertilizer tanks have a 120 micron protective coating of extra durable polyester applied electrostatically and oven cured on a zinc-phosphate layer for maximal anti-corrosion protection

### Applications

- Designed specifically for fertigation in agriculture
- Standard models apply fertilizer on the quantitative principle

### Specifications

Maximum recommended working pressure:	800kPa
Maximum pressure:	1000kPa
Installation:	Vertical and Horizontal



Part No.	Description
<b>120 litre Capacity</b>	
OD6120	Vertical Height 950mm x 480mm Diameter
<b>220 litre Capacity</b>	
OD6221	Horizontal length 1100mm x 750mm Height x 480mm Diameter



## FERTILIZER TANKS - SERIES 6000

### APPROXIMATE FERTILIZING TIMES (HOURS)

Pressure Loss Inlet / Outlet		Tank Capacity			
		60 Litres	90 Litres	120 Litres	220 Litres
(bar)	(psi)	(2)	(3)	(4)	(5)
(1)					
0.05	0.7	1 - 1¼	1¾ - 2	2 - 2½	3¾ - 4½
0.1	1.5	¾ - 1	1¼ - 1½	1½ - 2	2½ - 2¾
0.2	3	½ - ¾	¾ - 1	1 - 1½	1¾ - 2¼
0.4	6	⅓ - ½	½ - ¾	¾ - 1¼	1¼ - 1½

The fertilizing times are **for general use only**, and for fertilizers easily soluble in water. Actual times may be altered according to field conditions.

**Column 1:** Indicates the pressure difference between inlet A and outlet B of the fertilizer head.

**Column 2 - 5:** Indicate the time in hours, of fertilizing (until concentration becomes negligible). Usually, fertilizing times are determined according to type of fertilizer, crops and experience.

**Note:**

The fertilizing time is determined by the pressure loss.

## FERTILIZER TANKS - SERIES 6000

### TANK DIMENSIONS



#### OD6120

##### Dimensions

D: 480mm

H: 950mm

Weight: 44kg

#### OD6221

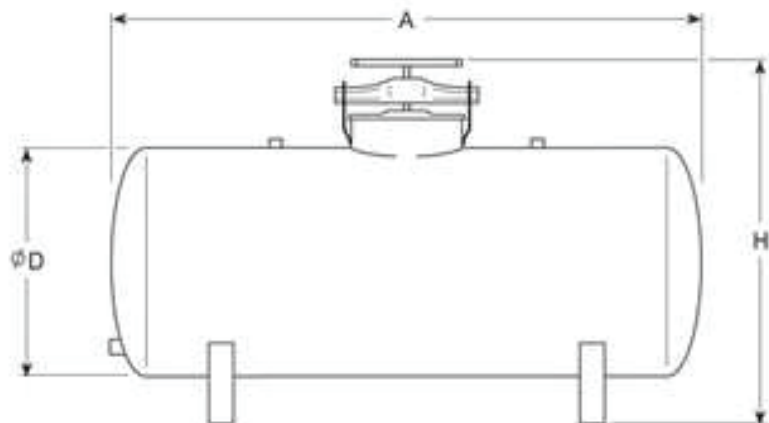
##### Dimensions

A: 1100mm

D: 480mm

H: 750mm

Weight: 59kg





# ODISMATIC HYDRAULIC SELF CLEANING FILTER - SERIES 851D

The Odismatic hydraulic self cleaning filter series 851D are used as an economic compact Automatic Screen Filter in places without electricity. The filter contains a Hydraulically operated collector with suction nozzles to ensure continuous trouble free operation.

## Filtration

Water enters the filter from the bottom passing through the screen mesh and exiting at 90°. This build up of deposits creates a differential pressure across the screen and once the preset pressure differential value of 50kPa is reached, the pressure switch gauge will activate the self cleaning process.

## Material

Filter housing is carbon steel (option for stainless steel available)  
 Filter coating is a 120 micron protective coating of durable polyester  
 Coating is applied electrostatically and oven cured on a zinc phosphate layer for anti corrosion protection  
 Coating is applied to internally and externally on housing  
 All internal parts are made from plastic materials and non-corrosive metals  
 Quick access to the internal parts of the filter is from the top  
 Screen is weaved wire mesh around pvc cylinder  
 Gaskets are natural rubber (option for other materials available)  
 Control system is a AC/DC flushing controller with built-in DP switch and valve. DP switch is set at 50 kPa

## Applications

- Suitable for irrigation, algae and organic matter



Specifications	Bar	PSI	kPa
Minimum Working Pressure	2	30	206
Maximum Working Pressure	10	150	1000

Mesh Sizing Chart									
Mesh	500	300	200	150	120	100	80	50	40
Micron	30	50	80	100	120	150	200	300	400



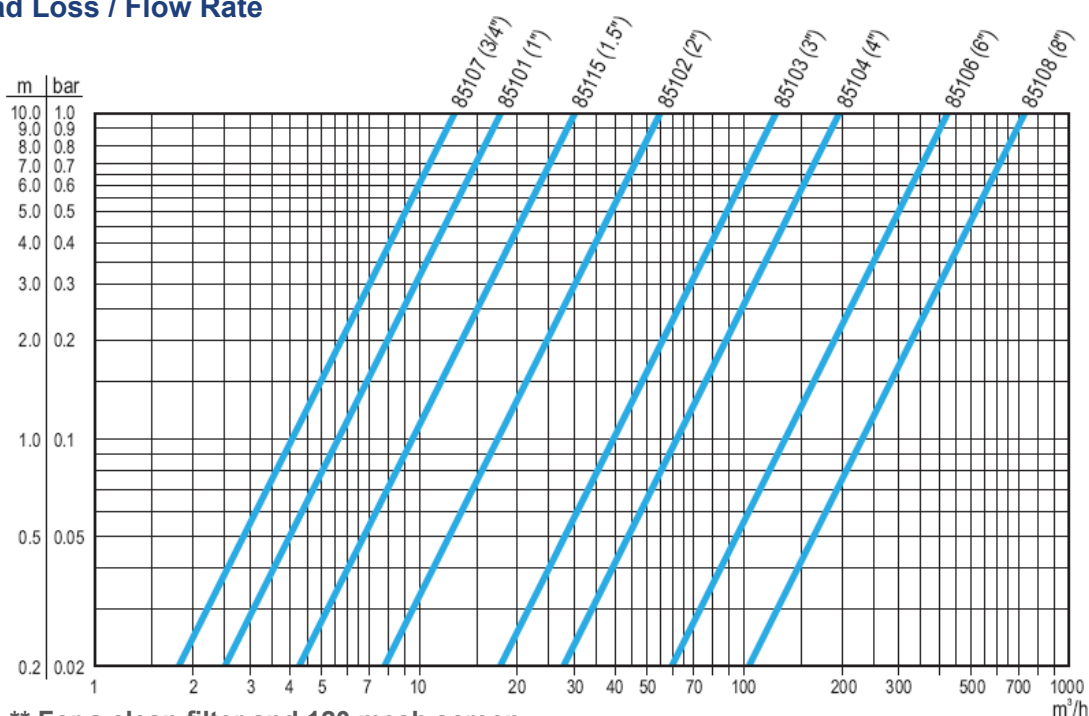
# ODISMATIC HYDRAULIC SELF CLEANING FILTER - SERIES 851D

## Recommended Flow Rates

Model	Description	Screen Area	Max Flow M <sup>3</sup> /H	Flush Rate M <sup>3</sup> /H	Flush kPa
85107	20mm hydraulic self cleaning filter	270cm <sup>2</sup>	4	2 - 3	200
85101	25mm hydraulic self cleaning filter	270cm <sup>2</sup>	7	2 - 3	200
851D15	40mm hydraulic self cleaning filter	850cm <sup>2</sup>	15	4 - 5	200
851D02	50mm hydraulic self cleaning filter	850cm <sup>2</sup>	25	4 - 5	200
851D03	80mm hydraulic self cleaning filter	1450cm <sup>2</sup>	40	4 - 5	200
851D04	100mm hydraulic self cleaning filter	1450cm <sup>2</sup>	80	4 - 5	200
851D04L	100mm hydraulic self cleaning filter	2360cm <sup>2</sup>	80	8 - 10	200
851D06	150mm hydraulic self cleaning filter	4500cm <sup>2</sup>	150	8 - 10	200
851D08	200mm hydraulic self cleaning filter	6200cm <sup>2</sup>	300	12 - 14	200
851D08L	200mm hydraulic self cleaning filter	8000cm <sup>2</sup>	300	15 - 17	200
851D10	250mm hydraulic self cleaning filter	8000cm <sup>2</sup>	400	15 - 17	200

*All 851 series filters available ex-factory, please consult HR Products for further technical specifications*

## Head Loss / Flow Rate



**\*\* For a clean filter and 120 mesh screen**

■ 1 Bar = 100 kPa = 1.02kg/cm<sup>2</sup> = 10.2m (W.C) = 14.5 psi

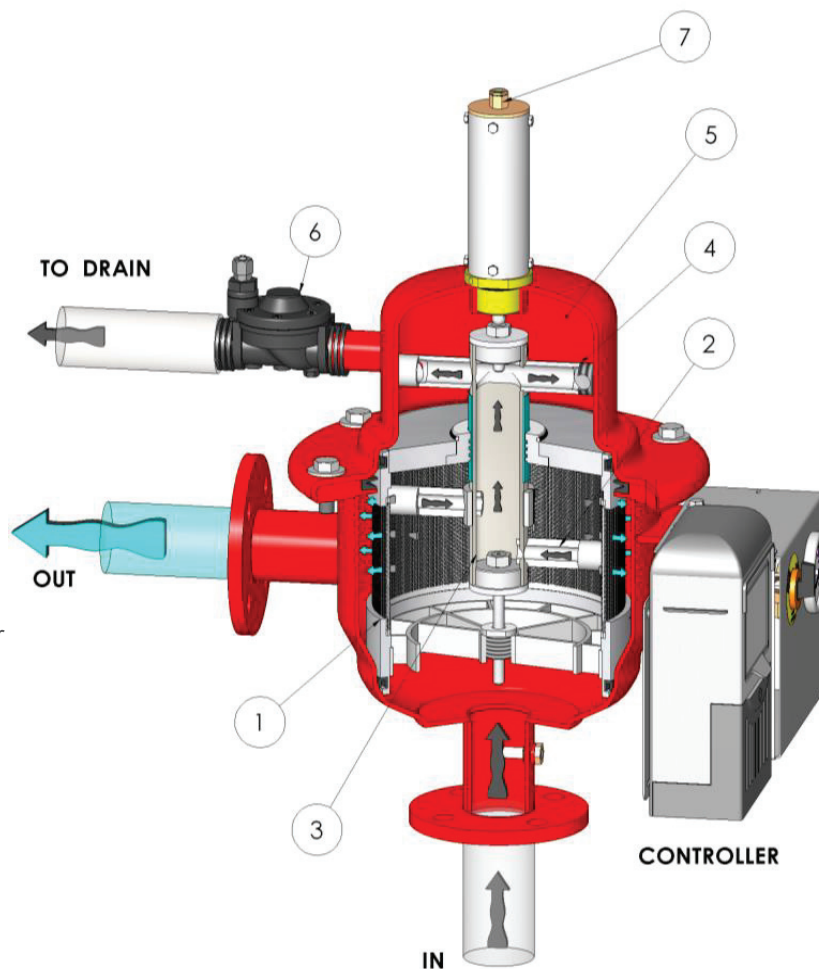


# ODISMATIC HYDRAULIC SELF CLEANING FILTER - SERIES 851D

## OPERATING PRINCIPLES

### Normal Flow Pattern

Raw water enters the filter through the inlet port, passing through the fine screen (1) and out to the outlet port. The sediments stopped on the screen (1) create a "cake" of sediment. This "cake" improves filtration efficiency as it performs a finer filtration. The sediments accumulated on the screen, create a differential pressure across the screen. The differential pressure rises until the predetermined value is reached [normally 0.5 bar (7.5 psi)]. A pressure switch gauge will activate the self cleaning process. A timer backup guarantees that the time passed from the last self cleaning process will not be longer than the preset value determined by the user.

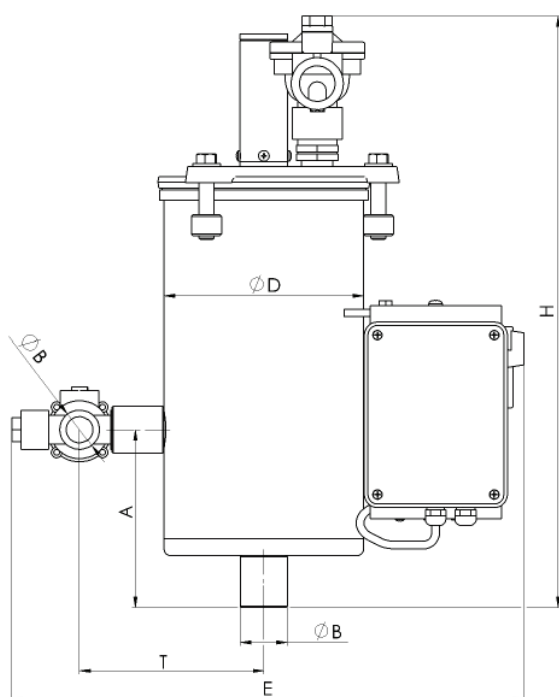


### Self Cleaning

On the flushing command, the flush valve (6) will open to atmosphere which creates a pressure drop in the motor chamber (5) and the dirt load is sucked in from the screen by the nozzles (2), at the same time the pressure drop moves the piston (7) and collector in linear movement, the hydraulic motor (4) rotates the collector. These two processes simultaneously create a spiral movement of the nozzles which allows them to cover the whole screen surface enabling the cleaning of the screen. Cleaning time is carried out in seconds (clean times vary on filter size) and when completed the filter returns to the filtering process. This self cleaning flush cycle can be initiated by the DP switch timer or manual by user.  
Flushing duration 40mm to 100mm filters is 8 -12 seconds  
Flushing duration 150mm to 250mm filters is 14 - 16 seconds

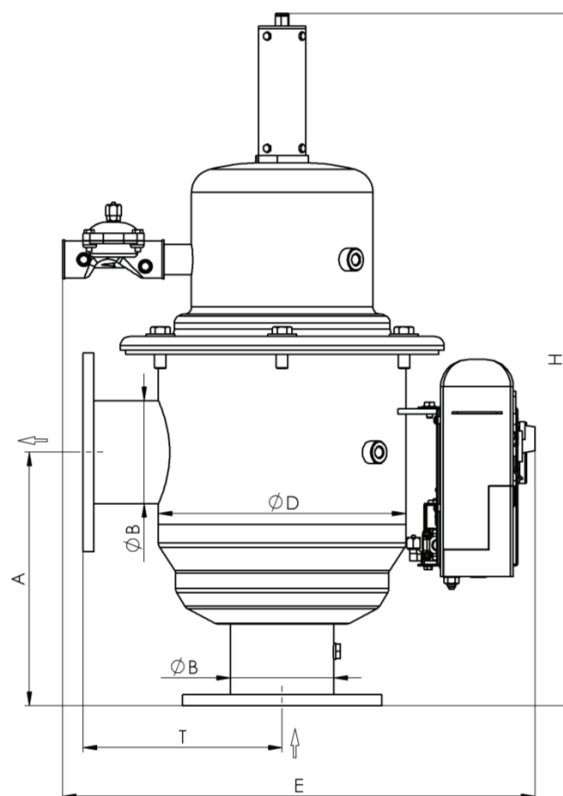
# ODISMATIC HYDRAULIC SELF CLEANING FILTER - SERIES 851D

## DIMENSIONS & WEIGHT



### MODELS

85107, 85101



### MODELS

851D15, 851D02, 851D03,  
851D04, 851D04L, 851D06,  
851D08

Model	B mm	D mm	A* mm	E* mm	H* mm	T* mm	Weight Kg
85107	20	150	150	410	500	155	11
85101	25	150	150	410	500	155	11
851D15	40	250	230	540	600	220	26
851D02	50	250	230	540	600	220	28
851D03	80	250	280	540	770	220	41
851D04	100	250	280	540	770	220	42
851D04L	100	250	280	540	905	220	48
851D06	150	300	540	600	1310	320	65
851D08	200	300	700	600	1530	320	78



# TAVLIT FILTERS



# ADIR MANUAL FILTERS - SCREEN & DISC

## 25MM & 40MM

Tavlit's professional line of plastic filters are designed for use in all irrigation systems and industry. Filters are available in sizes from 25mm to 80mm.

### Features

- Body lock ring enables easy opening of the filter without the use of tools
- Stainless steel weave wire screen element (available)
- Filter disc element is secured to the body and includes a telescopic spine
- Large filtration area for handling large quantities of dirt
- Grooved plastic disc element on telescopic spine (available)

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application
- Applicable for a wide range of flows

### Specifications

Recommended Flow Range:	134lpm - 250lpm
Max Recommended Operating Pressure:	1000kPa
Filtration Range:	80 - 120 mesh
Body Material:	Polypropylene & Glass Filled Nylon
End Connection Type:	Male BSP Thread
Locking Ring:	Polyamide & Glass Filled Nylon
O Ring:	EPDM



25mm



40mm

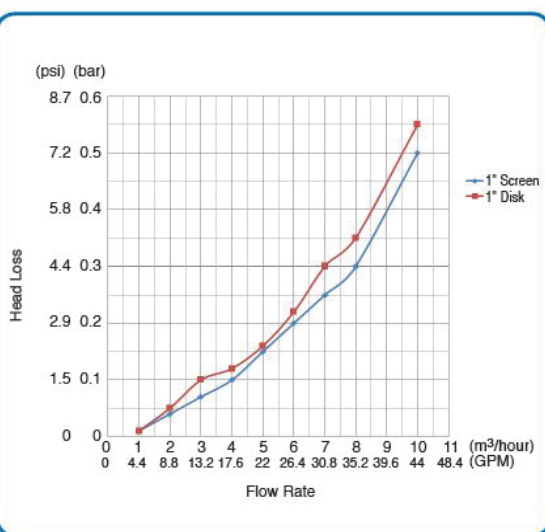
Part No.	Description
<b>25mm Flow Range: Up to 134lpm</b>	
<b>Screen Filters</b>	
NF1MS80	25mm 80 mesh screen filter
NF1MS120	25mm 120 mesh screen filter
<b>Disc Filters</b>	
NF1MD80	25mm 80 mesh disc filter
NF1MD120	25mm 120 mesh disc filter
<b>40mm Flow Range: Up to 250lpm</b>	
<b>Screen Filters</b>	
NF112MS80	40mm 80 mesh screen filter
NF112MS120	40mm 120 mesh screen filter
<b>Disc Filters</b>	
NF112MD80	40mm 80 mesh disc filter
NF112MD120	40mm 120 mesh disc filter



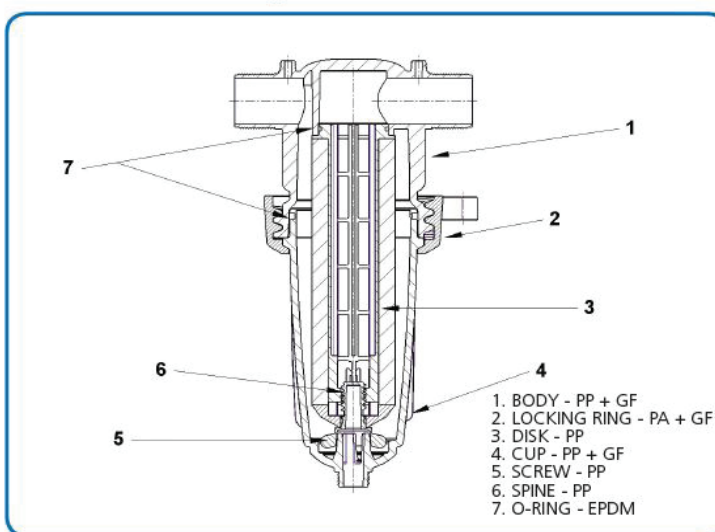
# ADIR MANUAL FILTERS - SCREEN & DISC 25MM & 40MM

## 25mm

1" ADIR FILTER HEAD LOSS

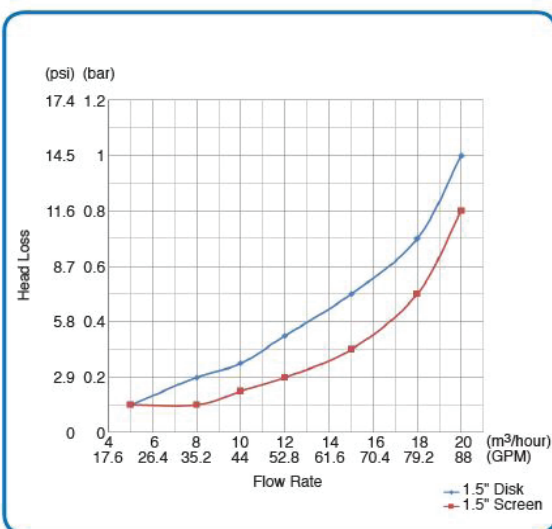


1", 1 1/2" DISK FILTER

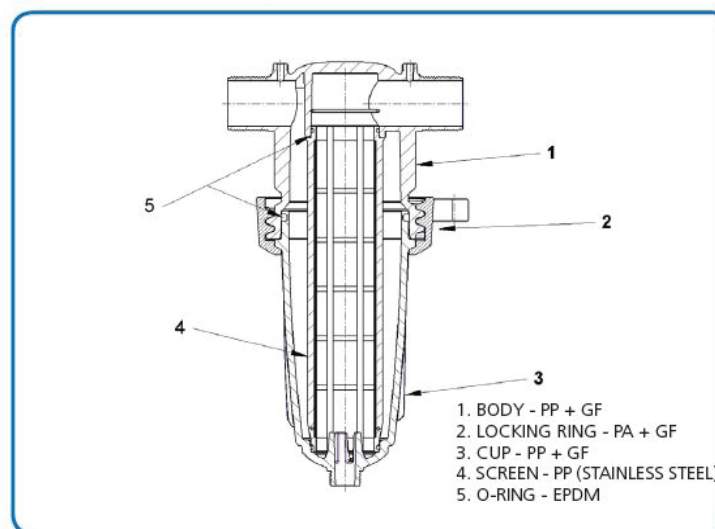


## 40mm

1.5" ADIR FILTER HEAD LOSS



1", 1 1/2" SCREEN FILTER



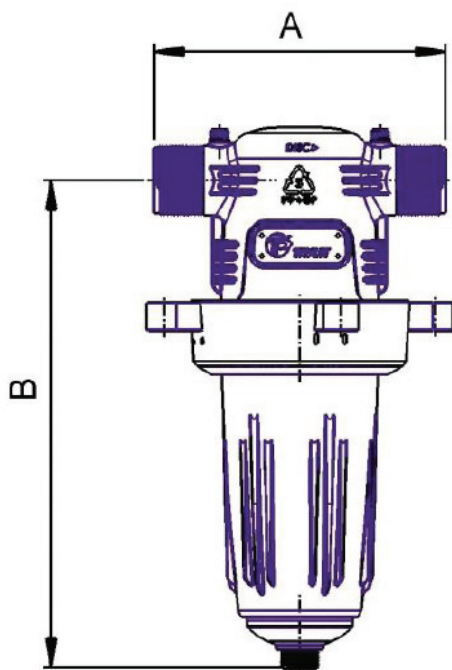
### 25mm & 40mm Tavlit Plastic Filters - Spare Parts Screen and Disc Elements

NFSI80M	80 mesh screen for 25mm & 40mm Tavlit filter bodies - Blue
NFSI120M	120 mesh screen for 25mm & 40mm Tavlit filter bodies - Red
NEFD80M	80 mesh disc for 25mm & 40mm Tavlit filter bodies - Yellow
NEFD120M	120 mesh disc for 25mm & 40mm Tavlit filter bodies - Red



# ADIR MANUAL FILTERS - SCREEN & DISC 25MM & 40MM

## FILTER DIMENSIONS



25mm

**Filter Dimensions**  
A: 200mm  
B: 340mm  
Weight: 1.5kgs

40mm

**Filter Dimensions**  
A: 200mm  
B: 340mm  
Weight: 1.7kgs

## FILTER ELEMENTS





In order to respond to the various needs Tavlit offers the Adir line of filters with two types of filter elements:

1. **Stainless Steel** - Stainless steel weave wire screen.
2. **Grooved Plastic** - disc elements stacked together on a telescopic spine that can be released in order to perform proper flushing of the dirt accumulated on and between the discs.

A wide range of filtration degrees is offered for various applications.



## FILTER ELEMENTS

Mesh/Micron	80/200		120/120	
Stainless Steel Screen	Blue		Red	
Disc	Yellow		Red	

- Mesh count per Linear inch.
- Micron in approximate values may vary between element types



# ADIR MANUAL FILTERS - SCREEN & DISC

## 50MM & 80MM

Tavlit's professional line of plastic filters are designed for use in all irrigation systems and industry. Filters are available in sizes from 25mm to 80mm.

### Features

- Body lock ring enables easy opening of the filter without the use of tools
- Stainless steel weave wire screen element (available)
- Filter disc element is secured to the body and includes a telescopic spine
- Large filtration area for handling large quantities of dirt
- Grooved plastic disc element on telescopic spine (available)

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application
- Applicable for a wide range of flows

### Specifications

Recommended Flow Range:	416lpm - 833lpm
Max Recommended Operating Pressure:	1000kPa
Filtration Range:	80 - 120 mesh
Body Material:	Polypropylene & Glass Filled Nylon
End Connection Type:	Male BSP Thread
Locking Ring:	Polyamide & Glass Filled Nylon
O Ring:	EPDM



50mm Disc

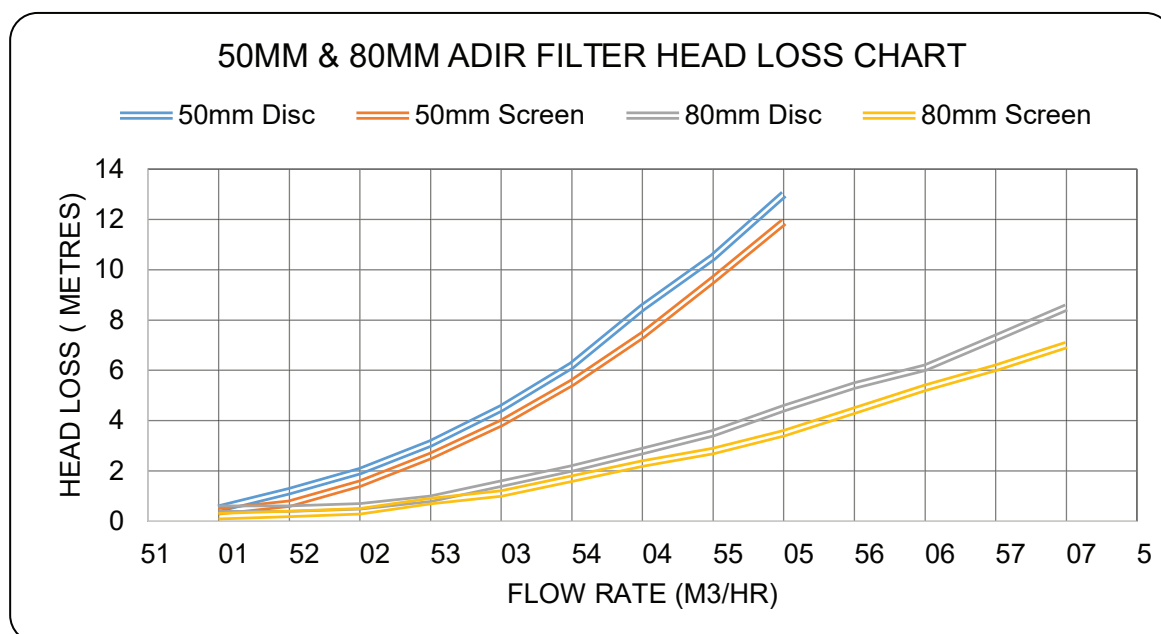


80mm

Part No.	Description
<b>50mm Flow Range: Up to 416lpm</b>	
<b>Screen Filters</b>	
NF2MS80	50mm 80 mesh screen filter
NF2MS120	50mm 120 mesh screen filter
<b>Disc Filters</b>	
NF2MD80	50mm 80 mesh disc filter
NF2MD120	50mm 120 mesh disc filter
<b>80mm Flow Range: Up to 833lpm</b>	
<b>Screen Filters</b>	
NF3MS80	80mm 80 mesh screen filter
NF3MS120	80mm 120 mesh screen filter
<b>Disc Filters</b>	
NF3MD80	80mm 80 mesh disc filter
NF3MD120	80mm 120 mesh disc filter

# ADIR MANUAL FILTERS - SCREEN & DISC 50MM & 80MM

## HEAD LOSS CHART

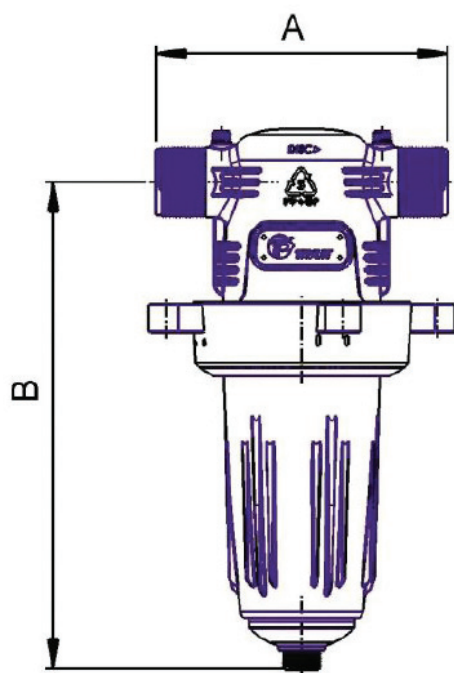


50mm & 80mm Tavlit Plastic Filters - Spare Parts Screen and Disc Elements	
NFSI80B	80 mesh screen for 50mm & 80mm Tavlit filter bodies - Blue
NFSI120B	120 mesh screen for 50mm & 80mm Tavlit filter bodies - Red
NEFD80B	80 mesh disc for 50mm & 80mm Tavlit filter bodies - Yellow
NEFD120B	120 mesh disc for 50mm & 80mm Tavlit filter bodies - Red



## ADIR MANUAL FILTERS - SCREEN & DISC 50MM & 80MM

### FILTER DIMENSIONS



50mm

#### Filter Dimensions

A: 280mm

B: 420mm

Weight: 4.6kgs

80mm

#### Filter Dimensions

A: 280mm

B: 450mm

Weight: 5.3kgs

### FILTER ELEMENTS





In order to respond to the various needs Tavlit offers the Adir line of filters with two types of filter elements:

1. **Stainless Steel** - Stainless steel weave wire screen.
2. **Grooved Plastic** - disc elements stacked together on a telescopic spine that can be released in order to perform proper flushing of the dirt accumulated on and between the discs.

A wide range of filtration degrees is offered for various applications.



### FILTER ELEMENTS

Mesh/Micron	80/200		120/120	
Stainless Steel Screen	Blue		Red	
Disc	Yellow		Red	

- Mesh count per Linear inch.
- Micron in approximate values may vary between element types

## ADIR SEMI AUTOMATIC FILTERS - DISC 50MM & 80MM

Tavlit's unique and innovative semi-automatic disc filters are designed for use in all irrigation systems and industry. This filter has the advantage of disc filtration without having to manually open the filter to clean the discs. Filters are available in sizes 50mm and 80mm.

### Special Features

- Flushing is performed simply by turning the operation handle a ¼ of a turn
- Water for flushing the discs is filtered with an internal screen
- Small footprint
- No external valves are required

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application
- Intended as a control filter in subsections for easy cleaning
- Most suitable for low quality water sources where the user prefers to clean the discs element without dismantling the filter

### Specifications

Max Recommended Operating Pressure:	1000kPa
Max Flow Rate:	50mm - 25m <sup>3</sup> /h 80mm - 50m <sup>3</sup> /h
Filtration Range:	40 - 140 mesh
Body Material:	Polypropylene & Nylon
End Connection Type:	Male BSP Thread
Minimum Flushing Pressure:	200kPa
Maximum Flushing Pressure:	600kPa
Flushing Flow Rate:	50mm - 15m <sup>3</sup> /h 80mm - 18m <sup>3</sup> /h
Required time for flushing:	10-20 seconds
Required time to flush the secondary port:	10 seconds

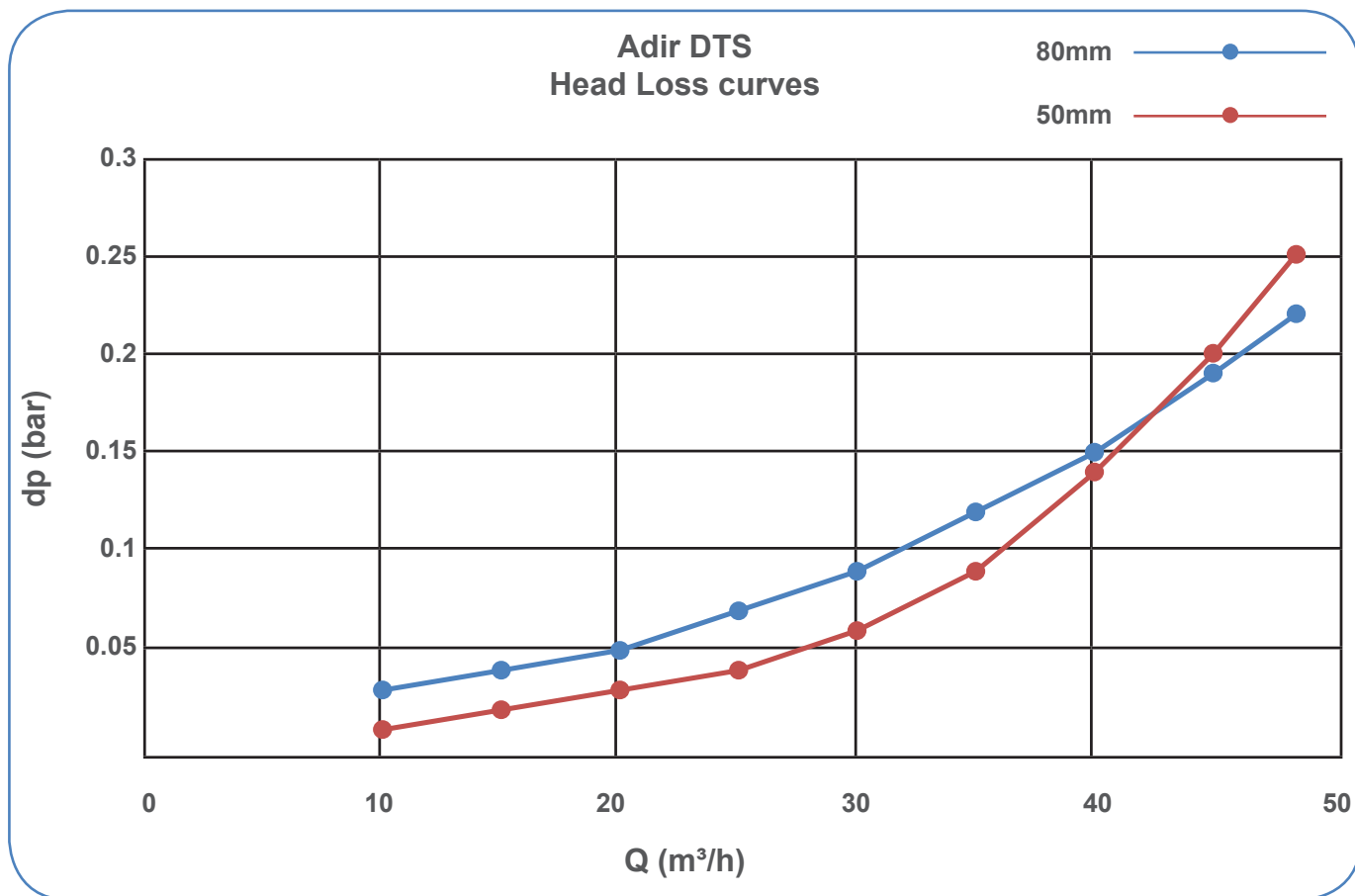


Part No.	Description
<b>50mm - Max Flow Rate 25m<sup>3</sup></b>	
<b>Disc Filters</b>	
SAF2MD80	50mm semi automatic disc filter 80 mesh
SAF2MD120	50mm semi automatic disc filter 120 mesh
<b>80mm - Max Flow Rate 50m<sup>3</sup></b>	
<b>Disc Filters</b>	
SAF3MD80	80mm semi automatic disc filter 80 mesh
SAF3MD120	80mm semi automatic disc filter 120 mesh



## ADIR SEMI AUTOMATIC FILTERS - DISC 50MM & 80MM

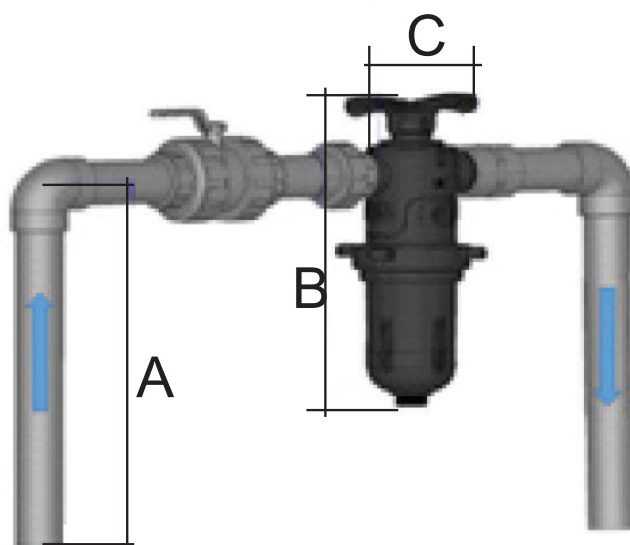
HEAD LOSS CHART





# ADIR SEMI AUTOMATIC FILTERS - DISC 50MM & 80MM

## FILTER DIMENSIONS



### Physical Dimensions

Dimensions (mm)	One Action	Two Action
A	750	950
B	645	795
C	235	235

### Weight (Empty)

Size	Model	Weight (kg)
50mm - 80mm	1 action	8.6
50mm - 80mm	2 action	9.3

### Technical Specification

Size		50S	80
Flow Rate	m <sup>3</sup> /h	25	50
Disc Filtration area	cm <sup>2</sup>	1,025	1,025
Disc Element	Mesh (micron)	40 - 140 (425 - 105)	40 - 140 (425 - 105)



## ADIR SEMI AUTOMATIC FILTERS - SCREEN 50MM & 80MM

Tavlit offers semi-automatic screen filters for easy effective filtration. The plastic filters are designed for long life and service in hard conditions. Filters are available in sizes 50mm and 80mm.

### Special Features

- Water flow to the field is uninterrupted
- Made from high quality plastic materials
- High quality and robust SS 316 screen
- Small footprint and large filtration area
- Tailor made batteries of filters are available for higher flow rates

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application
- Intended as a control filter in subsections for easy cleaning
- Most suitable for low quality water sources where the user prefers to clean the discs element without dismantling the filter

### Specifications

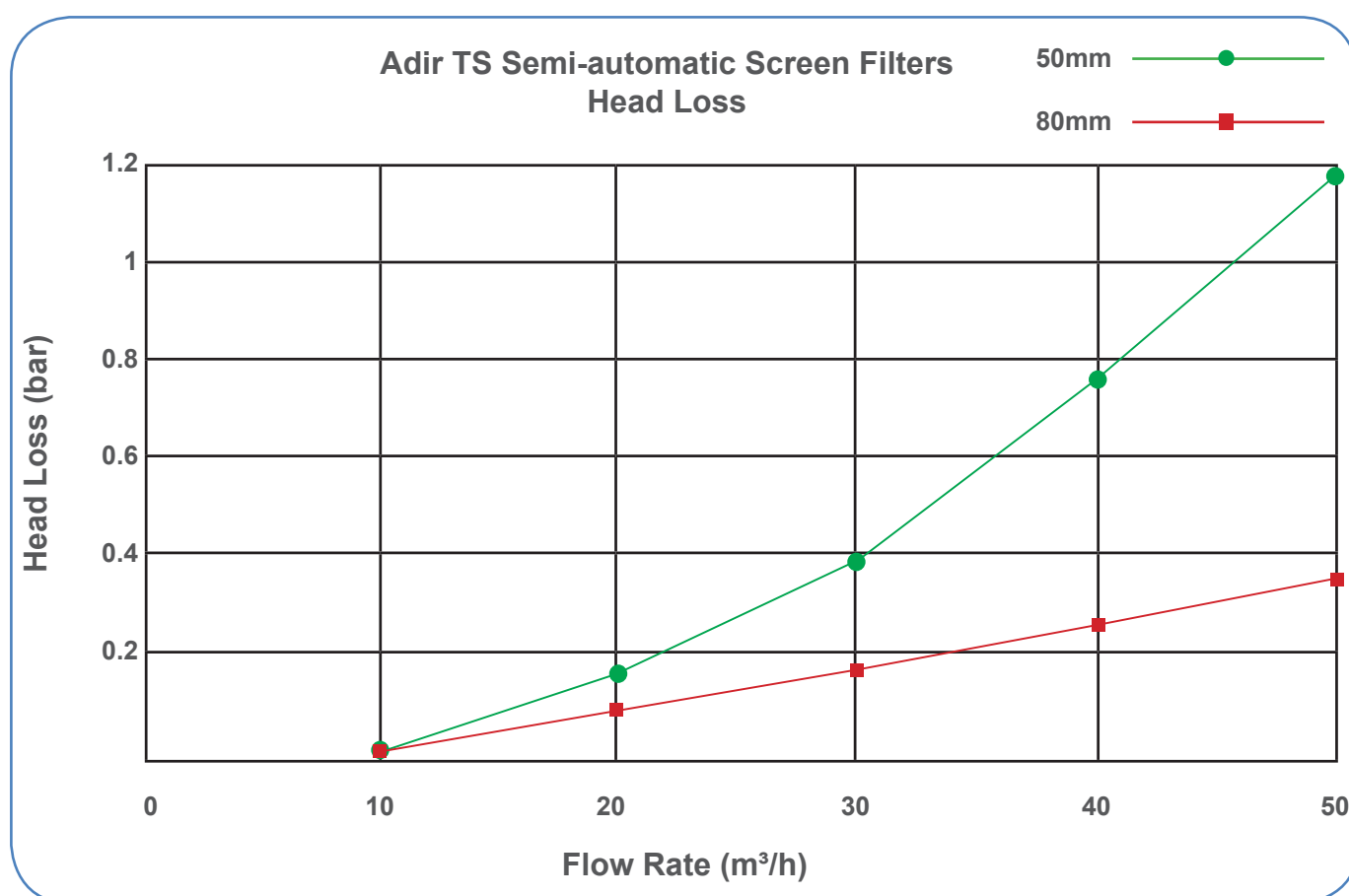
Max Recommended Operating Pressure:	1000kPa
Max Flow Rate:	50mm - 25m <sup>3</sup> /h 80mm - 50m <sup>3</sup> /h
Filtration Range:	40 - 140 mesh
Body Material:	Polypropylene & Nylon
End Connection Type:	Male BSP Thread
Minimum Flushing Pressure:	200kPa
Flushing Flow Rate:	5.4m <sup>3</sup> /h at 200kPa 6.8m <sup>3</sup> /h at 300kPa
Filtration area:	950cm <sup>2</sup>



Part No.	Description
<b>50mm - Max Flow Rate 25m<sup>3</sup></b>	
<b>Screen Filters</b>	
SAF2MS80	50mm semi automatic screen filter 80 mesh
SAF2MS120	50mm semi automatic screen filter 120 mesh
<b>80mm - Max Flow Rate 50m<sup>3</sup></b>	
<b>Screen Filters</b>	
SAF3MS80	80mm semi automatic screen filter 80 mesh
SAF3MS120	80mm semi automatic screen filter 120 mesh

# ADIR SEMI AUTOMATIC FILTERS - SCREEN 50MM & 80MM

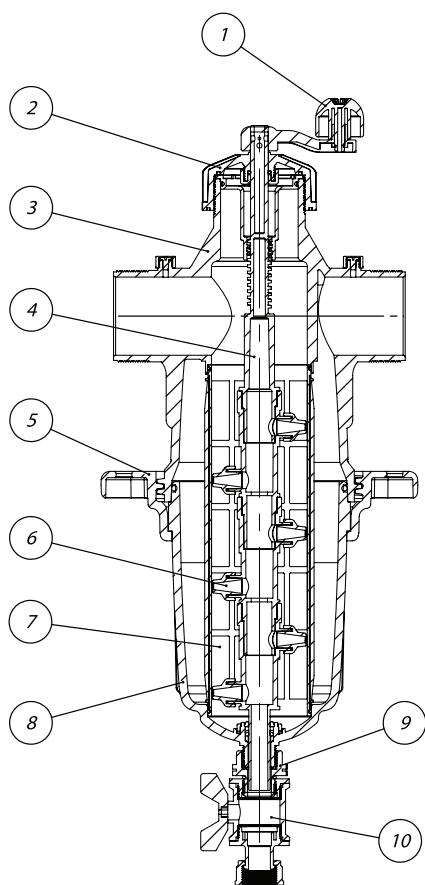
HEAD LOSS CHART



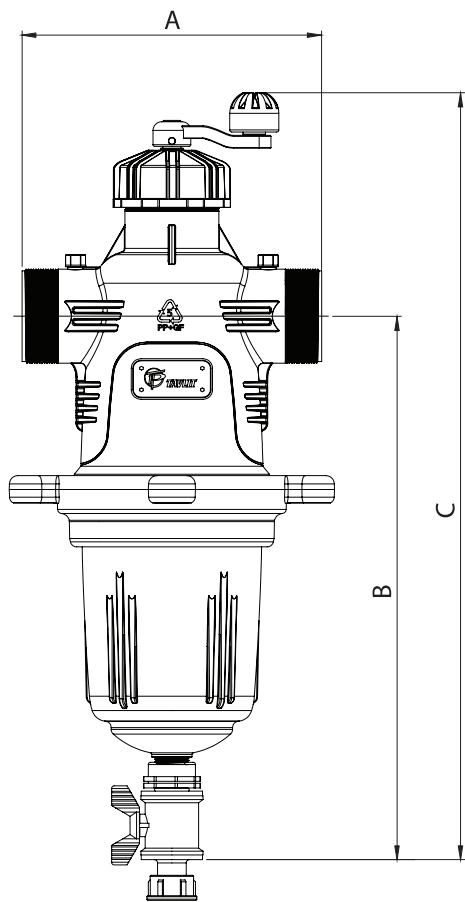


# ADIR SEMI AUTOMATIC FILTERS - SCREEN 50MM & 80MM

## FILTER DIMENSIONS



Item No.	Description
1	Handle
2	Cover
3	Filter Body
4	Flush Pipe
5	Locking Ring
6	Nozzle
7	Adir Screen Filter Box
8	Filter Cup
9	Bushing 25mmF/ 25mmM
10	Flush Valve 25mm



Dimensions (mm)	50mm	80mm
A	280	280
B	490	508
C	720	750

## TAVLIT SCREEN FILTERS - 20MM & 25MM

Tavlit Screen Filters are used for protection in drip, spray and sprinkler watering systems. Filters are available in sizes from 20mm to 50mm.

### Features

- Unique: Swivel quick installation
- Interchangeable filtration elements:  
Disc and Screen elements fit the same filter body
- High Flow, low pressure loss
- Easy maintenance
- UV Resistant
- BSP male or female thread

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application

### Specifications

Maximum Flow - 20mm:	58lpm
Maximum Flow - 25mm:	85lpm
Max Recommended Operating Pressure:	800kPa
Filtration Range:	40 - 155 mesh
Filtration Screen:	Polyester/Stainless Steel
Gaskets:	EPDM
Body:	Polypropylene

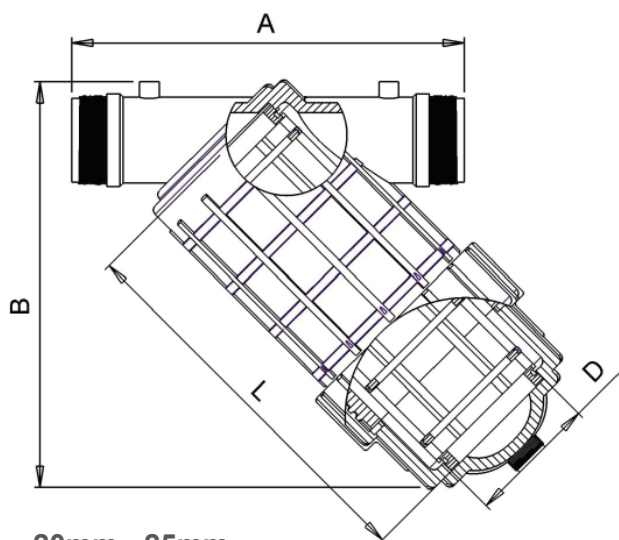


Part No.	Description
<b>20mm Tavlit Screen Filters</b>	
TF-20-120	20mm x 120 mesh screen (Brown)
TF-20-155	20mm x 155 mesh screen (Green)
TF-20-80	20mm x 80 mesh screen (Light Blue)
<b>25mm Tavlit Screen Filters</b>	
TF-25-120	25mm x 120 mesh screen (Brown)
TF-25-155	25mm x 155 mesh screen (Green)
TF-25-80	25mm x 80 mesh screen (Light Blue)
TF-25-40	25mm x 40 mesh screen (Dark Blue)
<b>20mm &amp; 25mm Tavlit Plastic Filters - Spare Parts Screen Elements</b>	
TF-20-BO	20mm BSP female swivel inlet & outlet Filter Body
TF-25-BO	25mm BSP female swivel inlet & outlet Filter Body
TFF-40	40 mesh screen to suit 20mm & 25mm Body
TFF-80	80 mesh screen to suit 20mm & 25mm Body
TFF-120	120 mesh screen to suit 20mm & 25mm Body
TFF-155	155 mesh screen to suit 20mm & 25mm Body



## TAVLIT SCREEN FILTERS - 20MM & 25MM

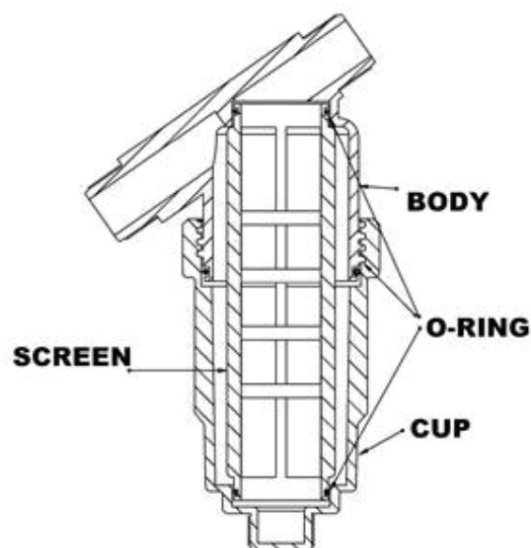
### FILTER DIMENSIONS



20mm - 25mm

#### Filter Dimensions

A: 121mm  
B: 160mm  
L: 153mm  
D: 31mm



Body: P.P

Screen: Stainless Steel or Polyester

O-Rings: EPDM

### HEAD LOSS at 120 mesh in metres, 10kPa

#### Screen Filters:

Flow Rate	20mm	25mm
LPM	kPa	
16.6	0.5	0.2
33.3	1.10	0.62
50	1.70	1.0
66.6	3.0	1.8
83.3	4.6	3.0
100	7.0	4.47



## TAVLIT SCREEN FILTERS - 40MM & 50MM

Tavlit Screen Filters are used for protection in drip, spray and sprinkler watering systems. Filters are available in sizes from 20mm to 50mm.

### Features

- Unique: Swivel quick installation
- Interchangeable filtration elements:  
Disc and Screen elements fit the same filter body
- High Flow, low pressure loss
- Easy maintenance
- UV Resistant
- BSP male or female thread

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application

### Specifications

Maximum Flow - 40mm:	207lpm
Maximum Flow - 50mm:	342lpm
Max Recommended Operating Pressure:	1000kPa
Filtration Range:	80 - 155 mesh
Filtration Screen:	Polyester/Stainless Steel
Gaskets:	EPDM
Body:	Polypropylene



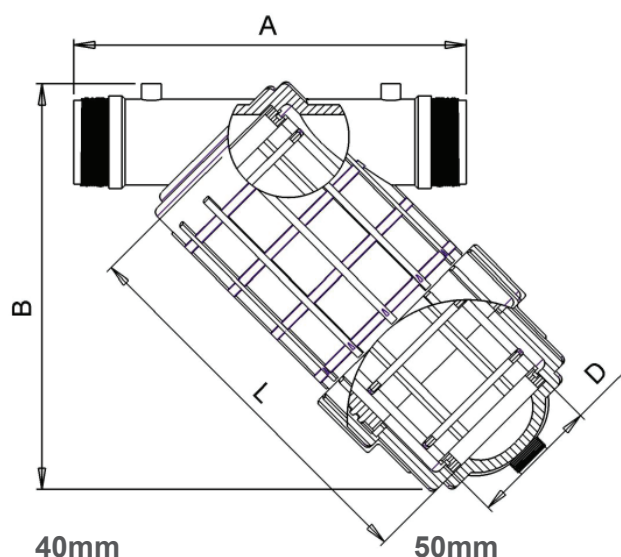
Part No.	Description
<b>40mm Tavlit Screen Filters</b>	
TF-40-120	40mm x 120 mesh screen (Brown)
TF-40-155	40mm x 155 mesh screen (Green)
TF-40-80	40mm x 80 mesh screen (Light Blue)
<b>50mm Tavlit Screen Filters</b>	
TF-50-120	50mm x 120 mesh screen (Brown)
<b>40mm &amp; 50mm Tavlit Plastic Filters - Spare Parts Screen Elements</b>	
TFM40-80	80 mesh screen to suit 40mm Body
TFM40-120	120 mesh screen to suit 40mm Body
TFM50-80	80 mesh screen to suit 50mm Body
TFM50-120	120 mesh screen to suit 50mm Body





## TAVLIT SCREEN FILTERS - 40MM & 50MM

### FILTER DIMENSIONS



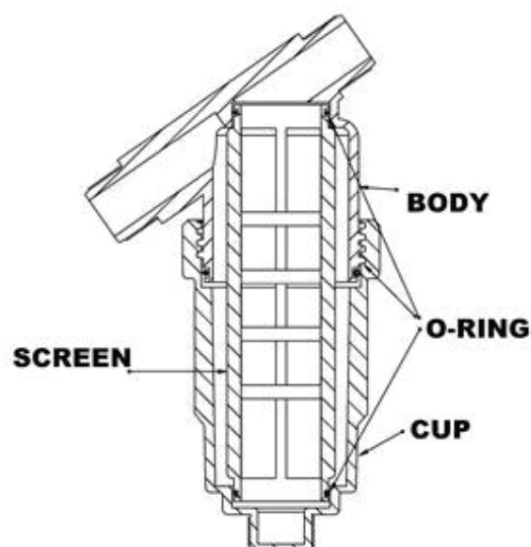
#### Filter Dimensions

**A:** 257mm  
**B:** 240mm  
**L:** 220mm  
**D:** 80mm

#### Filter Dimensions

**A:** 257mm  
**B:** 270mm  
**L:** 265mm  
**D:** 80mm

### MATERIALS



**Body:** P.P

**Screen:** Stainless Steel or Polyester

**O-Rings:** EPDM

**HEAD LOSS at 120 mesh in metres, 10kPa**

**Screen Filters:**

Flow Rate	40mm	50mm
LPM	kPa	
83	3.0	
100	4.0	
116	6.0	3.0
133	8.0	3.5
150	9.5	5.0
166	11.9	6.4
200	13.7	7.5
233	17.0	9.9
266	21.9	13.0
300	27.9	15.9
333	35.0	19.9

## TAVLIT DISC FILTERS - 20MM - 50MM

Tavlit Screen Filters are used for protection in drip, spray and sprinkler watering systems. Filters are available in sizes from 20mm to 50mm.

### Features

- Unique: Swivel quick installation
- Interchangeable filtration elements:  
Disc and Screen elements fit the same filter body
- High Flow, low pressure loss
- Easy maintenance
- UV Resistant
- Removable flushing cap
- BSP male or female thread

### Applications

- Water filtration for Agriculture, Turf, domestic and industrial application

### Specifications

Max Recommended Operating Pressure 20/25: 800kPa  
 Max Recommended Operating Pressure 40/50: 1000kPa  
 Cartridge Spring: Stainless Steel  
 Gaskets: EPDM  
 Body: Polypropylene

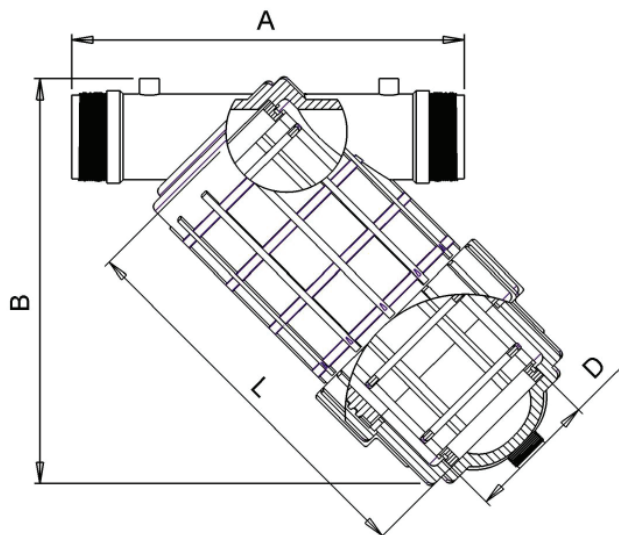


Part No.	Description
<b>20mm Tavlit Disc Filters</b>	
SF34D120	20mm x 120 disc (Red)
<b>25mm Tavlit Disc Filters</b>	
SF1D120	25mm x 120 disc (Red)
<b>40mm Tavlit Disc Filters</b>	
SF40D120	40mm x 120 disc (Red)
<b>50mm Tavlit Disc Filters</b>	
SF50D120	50mm x 120 disc (Red)
<b>20mm - 50mm Tavlit Plastic Filters - Spare Parts Disc Elements</b>	
SF1DE-120	120m disc element to suit 20/25mm Body
SF40DE-120	120m disc element to suit 40mm Body
SF40DE-140	140m disc element to suit 40mm Body
SF40DE-40	40m disc element to suit 40mm Body
SF40DE-80	80m disc element to suit 40mm Body
SF50DE-120	120m disc element to suit 50mm Body
SF50DE-140	140m disc element to suit 50mm Body
SF50DE-40	40m disc element to suit 50mm Body
SF50DE-80	80m disc element to suit 50mm Body



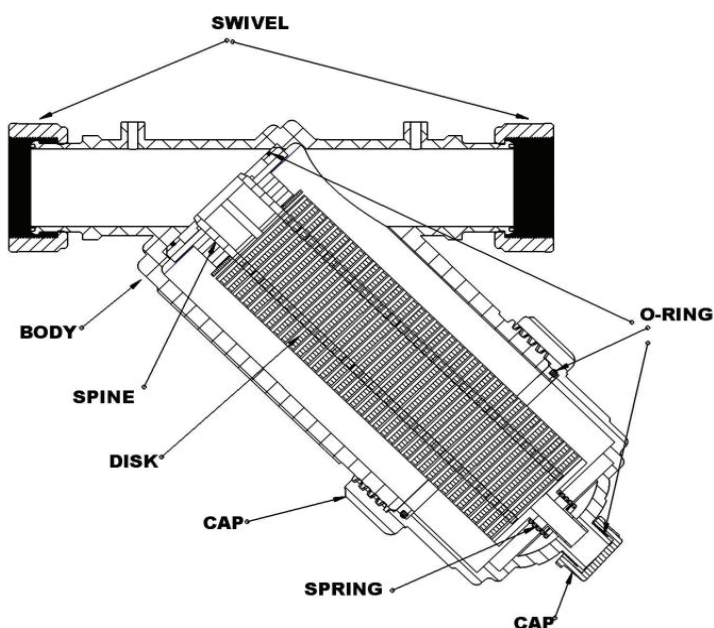
## TAVLIT DISC FILTERS - 20MM - 50MM

### FILTER DIMENSIONS



Physical Dimensions				
	A	B	L	D
Model	mm	mm	mm	mm
20-25mm	121	160	153	31
40mm	257	240	220	80
50mm	257	270	265	80

### MATERIALS



**Body:** P.P  
**Spin:** P.P  
**Cup:** P.P  
**Disc:** P.P  
**Sleeve:** P.P  
**Springs:** Stainless Steel  
**O-Rings:** EPDM

## TAVLIT DISC FILTERS - 20MM - 50MM

### FLOW vs LOSS CHART (kpa)

Flow vs Loss Chart (kpa)				
Flow l/min	20mm	25mm	40mm	50mm
16	0.7	0.1		
33	2	1	1	
50	4	2	2	1
66	6.4	3	3.5	2.4
83		5	4.5	3.8
100		8.2	8	5
116			11	7
133			15	9.5
150			19	12.5
166			22	15.5
200			29	20
233			37	24
266			45	30
300				43
333				70

	20mm	25mm	40mm	50mm
Flow Range LPM	16-66	16-100	33-250	33-300
Disc Filter Area	180cm <sup>2</sup>	180cm <sup>2</sup>	385cm <sup>2</sup>	488cm <sup>2</sup>
Disc Mesh Range	80-140	80-140	40-140	40-140



# **JAIN**

# **PLASTIC FILTERS**





## JAIN SPIN CLEAN FILTERS - 20MM & 25MM

AG Products Spin Clean® filters are unique in that incoming dirty water is forced through a directional nozzle plate onto the inside of the stainless steel screen. This creates a centrifugal action which rotates debris down the screen wall to the large debris holding basin. Debris is flushed out via a ball valve or unscrewing cap. A spinning action keeps more of the screen area clean, minimizing pressure losses due to excessive dirt build-up.

### Features

- 20mm and 25mm inlet/outlet
- Two piece threaded housing with O ring seal for easy maintenance
- Moulded from high heat and chemical resistant ABS Plastic
- Ball Valve for flushing debris
- Strong, stainless steel filter screens available in mesh sizes of 50, 100 and 150 (please specify when ordering)
- Removable flushing cap



### Applications

- High quality screen filter for agriculture and landscape irrigation systems

### Specifications

Max Recommended Operating Pressure:	550kPa
20mm Maximum Flow Rate:	42lpm
25mm Maximum Flow Rate:	105lpm
20mm Maximum size cleaning efficiency:	15lpm
25mm Maximum size cleaning efficiency:	26lpm
20mm Screen area:	585mm
25mm Screen area:	710mm

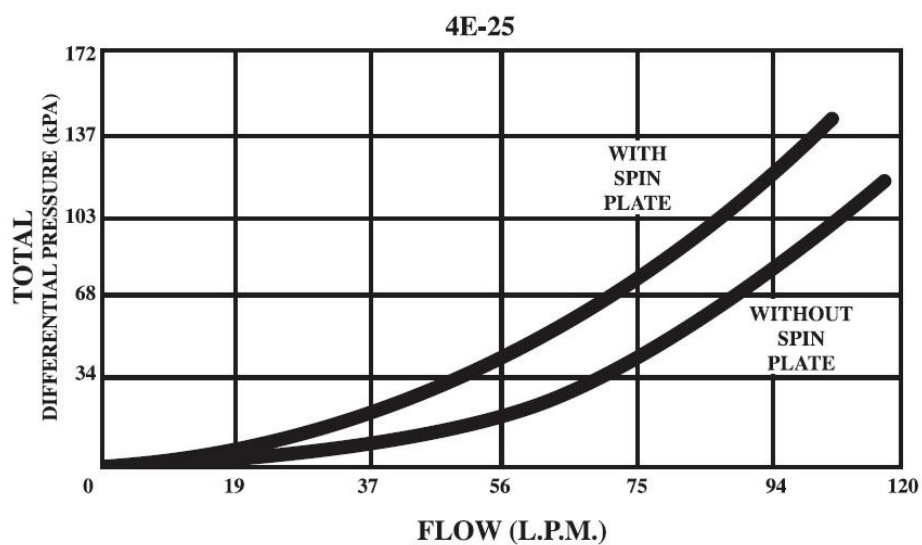
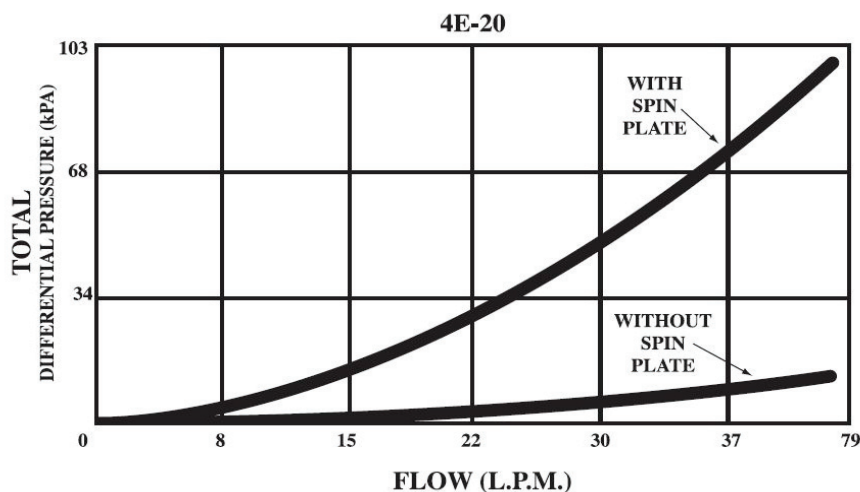
Part No.	Description
<b>20mm Spin Clean Filters - with Flushing outlet valve</b>	
4E20-50	20mm x 50 mesh screen
4E20-100	20mm x 100 mesh screen
4E20-150	20mm x 150 mesh screen
<b>20mm Spin Clean Filters - Spare Parts</b>	
20SC-50	Screen Only 50 mesh (Yellow)
20SC-100	Screen Only 100 mesh (Blue)
20SC-150	Screen Only 150 mesh (Black)
4E20-B	20mm Spin Clean Filter Body Only
4E20-ORING	20/25mm Spin Clean Filter - Body ORing
4E20-SP	20/25mm Spin Clean Filter - Spin Plate
FOV	Flushing Outlet Valve

Part No.	Description
<b>25mm Spin Clean Filters - with Flushing outlet valve</b>	
4E25-50	25mm x 50 mesh screen
4E25-100	25mm x 100 mesh screen
4E25-150	25mm x 150 mesh screen
<b>25mm Spin Clean Filters - Spare Parts</b>	
25SC-50	Screen Only 50 mesh (Yellow)
25SC-100	Screen Only 100 mesh (Blue)
25SC-150	Screen Only 150 mesh (Black)
4E25-B	25mm Spin Clean Filter Body Only
4E20-ORING	20/25mm Spin Clean Filter - Body ORing
4E20-SP	20/25mm Spin Clean Filter - Spin Plate
FOV	Flushing Outlet Valve






## JAIN SPIN CLEAN FILTERS - 20MM & 25MM

### FLOW CHARACTERISTICS



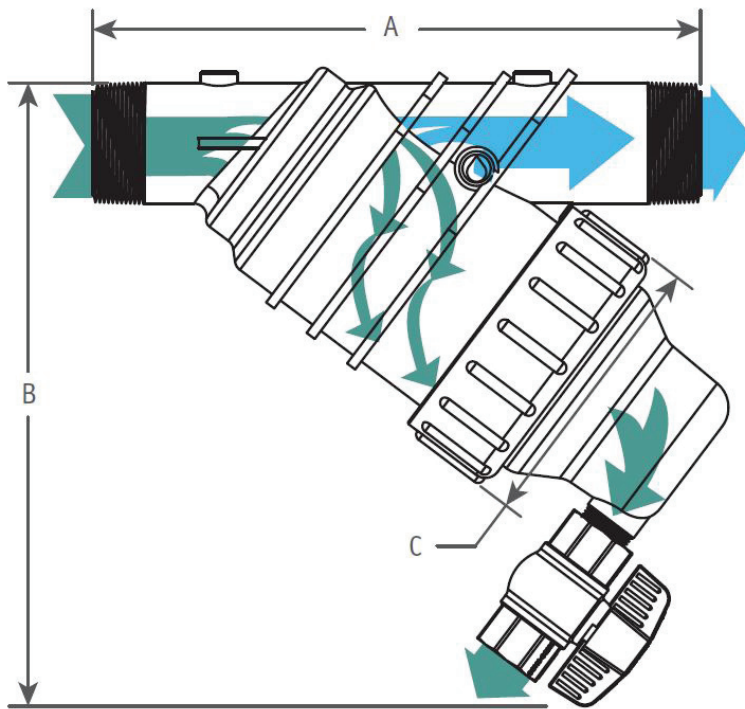
### FILTER SCREEN MESH/ MICRON CONVERSIONS

Filter Screen Mesh / Micron Conversions			
Mesh	50	100	150
Inch	.012	.006	.004
Micron	300	152	100
Colour	Yellow	Blue	Black
			



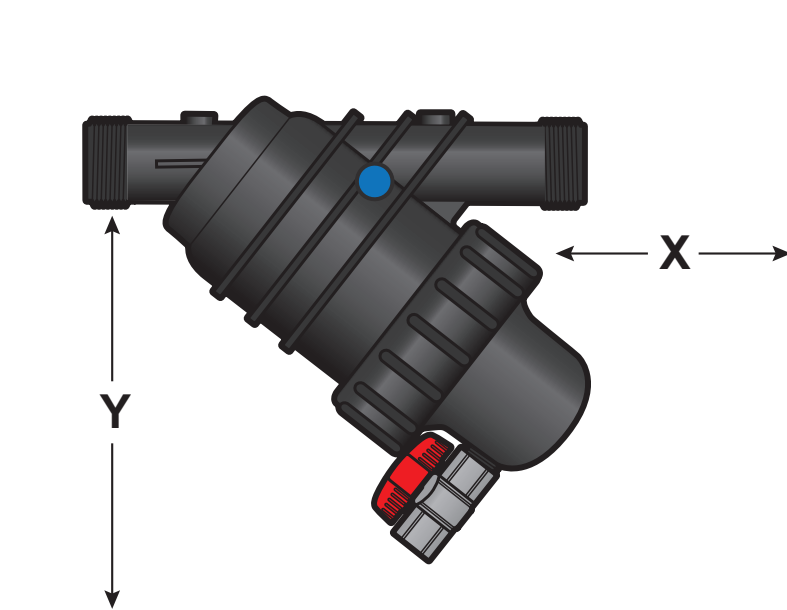
## JAIN SPIN CLEAN FILTERS - 20MM & 25MM

### FILTER DIMENSIONS



Physical Dimensions			
	A	B	C
Size	cm	cm	cm
20mm	15.8	21.6	7.6
25mm	17.3	24.1	7.6

### MINIMUM CLEARANCE



Size	X	Y
4E - 20mm & 25mm with valve	150mm	200mm



## JAIN SPIN CLEAN FILTERS - 40MM & 50MM

AG Products Spin Clean® filters are unique in that incoming dirty water is forced through a directional nozzle plate onto the inside of the stainless steel screen. This creates a centrifugal action which rotates debris down the screen wall to the large debris holding basin. Debris is flushed out via a ball valve or unscrewing cap. A spinning action keeps more of the screen area clean, minimizing pressure losses due to excessive dirt build-up.

### Features

- 40mm and 50mm inlet/outlet
- Two piece threaded housing with O ring seal for easy maintenance
- Moulded from high heat and chemical resistant ABS Plastic
- Ball Valve for flushing debris
- Strong, stainless steel filter screens available in mesh sizes of 50, 100, 150 and 200 (please specify when ordering)
- Removable flushing cap

### Applications

- High quality screen filter for agriculture and landscape irrigation systems

### Specifications

Max Recommended Operating Pressure:	689kPa
40mm Maximum Flow Rate:	207lpm
50mm Maximum Flow Rate:	434lpm
40mm Maximum size cleaning efficiency:	189lpm
50mm Maximum size cleaning efficiency:	378lpm
40mm Screen area:	392.3cm <sup>2</sup>
50mm Screen area:	392.3cm <sup>2</sup>

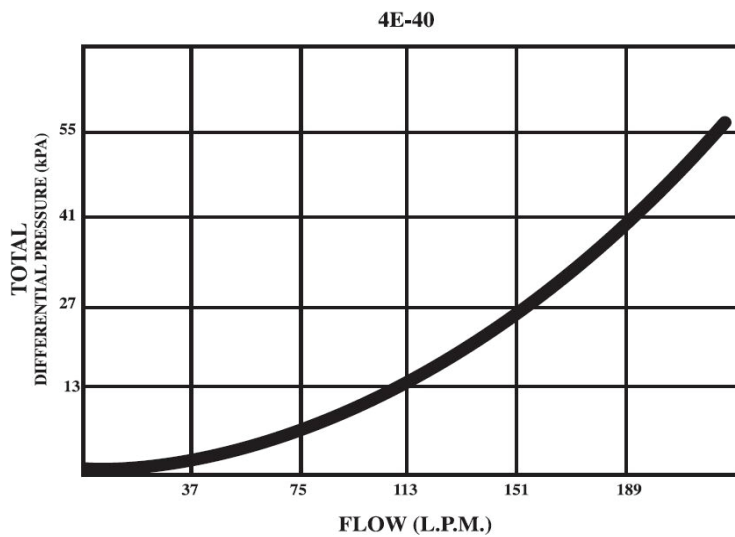


Part No.	Description
<b>40mm Spin Clean Filters - with Flushing outlet valve</b>	
4E40-50	40mm x 50 mesh screen
4E40-100	40mm x 100 mesh screen
4E40-150	40mm x 150 mesh screen
<b>40mm Spin Clean Filters - Spare Parts</b>	
50SC-50	Screen Only 50 mesh (Yellow)
50SC-100	Screen Only 100 mesh (Blue)
50SC-150	Screen Only 150 mesh (Black)
50SC-200	Screen Only 200 mesh (Red)
4E40-B	40mm Spin Clean Filter Body Only
4E40-ORING	40/50mm Spin Clean Filter - Body ORing
4E40-SP	40mm Spin Clean Filter - Spin Plate
4E40CC	40/50mm Collection Cell
FOV	Flushing Outlet Valve

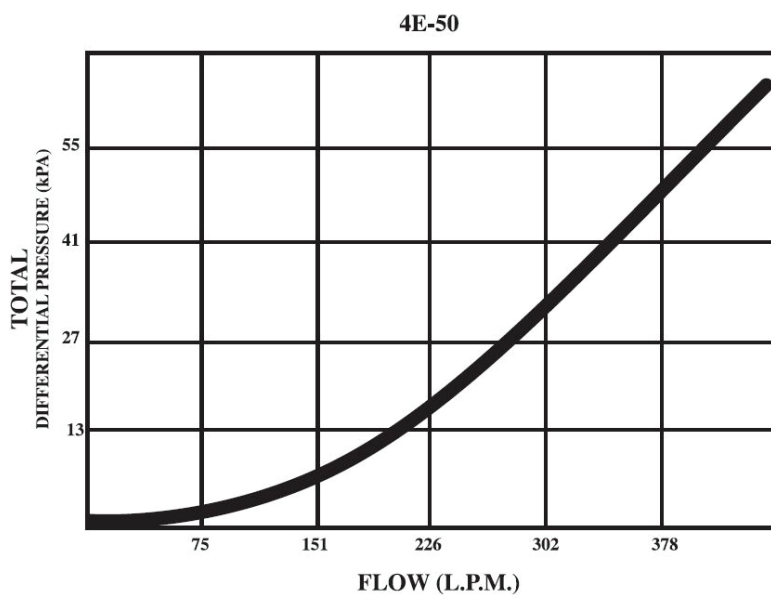
Part No.	Description
<b>50mm Spin Clean Filters - with Flushing outlet valve</b>	
4E50-50	50mm x 50 mesh screen
4E50-100	50mm x 100 mesh screen
4E50-150	50mm x 150 mesh screen
<b>50mm Spin Clean Filters - Spare Parts</b>	
50SC-50	Screen Only 50 mesh (Yellow)
50SC-100	Screen Only 100 mesh (Blue)
50SC-150	Screen Only 150 mesh (Black)
50SC-200	Screen Only 200 mesh (Red)
4E50-B	50mm Spin Clean Filter Body Only
4E50-ORING	40/50mm Spin Clean Filter - Body ORing
4E50-SP	50mm Spin Clean Filter - Spin Plate
4E50CC	40/50mm Collection Cell
FOV	Flushing Outlet Valve

# JAIN SPIN CLEAN FILTERS - 40MM & 50MM

## FLOW CHARACTERISTICS







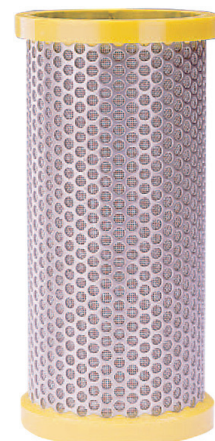
40mm Filter



50mm Filter

## FILTER SCREEN MESH/ MICRON CONVERSIONS

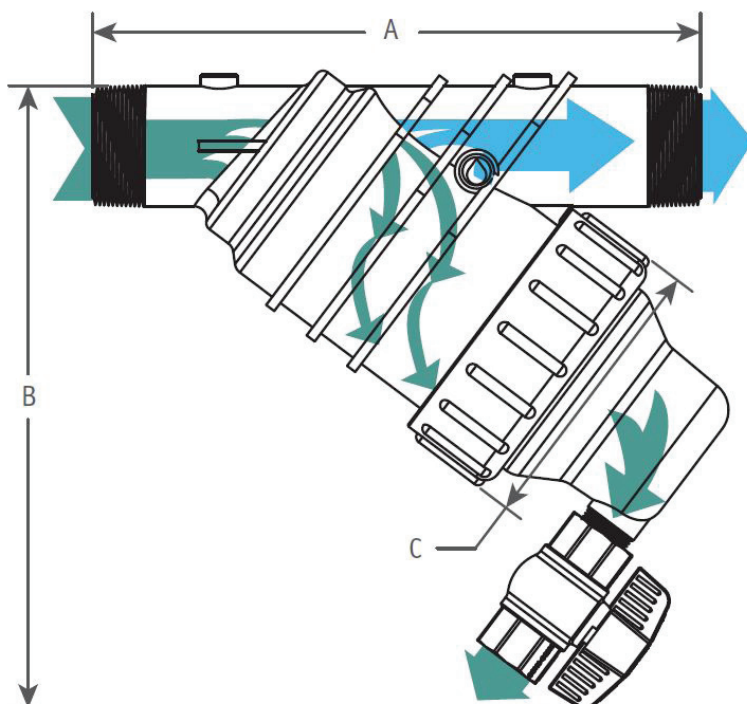
Filter Screen Mesh / Micron Conversions				
Mesh	50	100	150	200
Inch	.012	.006	.004	.003
Micron	300	152	100	80
Colour	Yellow	Blue	Black	Red
				





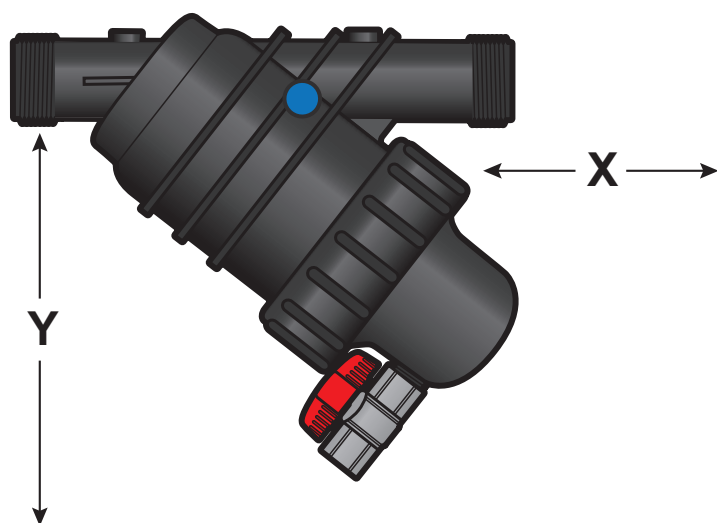
## JAIN SPIN CLEAN FILTERS - 40MM & 50MM

FILTER DIMENSIONS



Physical Dimensions			
	A	B	C
Size	cm	cm	cm
40mm	30.5	30.5	14
50mm	30.5	30.5	14

MINIMUM CLEARANCE



Size	X	Y
4E - 40mm	100mm	300mm
4E - 50mm	100mm	300mm



## JAIN SPIN CLEAN FILTERS - MAINTENANCE

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Care should be taken to keep the operating pressure differential across the filter between 34kPa - 55kPa. Pressure reading should be monitored sufficiently to detect any build up of pressure differential during normal operation, which indicates the start of filter screen plugging. When this occurs, the system should be shut down, the filter drained and disassembled. The screen element should be washed thoroughly using a high pressure spray washer, spraying from outside in.

Several steps can be taken to extend the maintenance interval:

- 1.** Start with a thoroughly clean screen element. Rinsing with garden hose pressure is not as good as using a pressure washer.
- 2.** Make sure the filter never runs with less than a 34kPa differential.
- 3.** Change spin plates to boost operating differential to 55kPa if not already achieved, to further increase cleaning action.
- 4.** Increase flush flow rate for continuous flushing filters.
- 5.** Pre-screen heavy organic/aquatic loads with a coarse screen filter at the pump inlet for surface water installations.
- 6.** Open flush valve fully on start-up to prevent sudden loading from a surge of contaminants.



# **HR PRODUCTS**

# **PLASTIC FILTERS**

## HR PRODUCTS SCREEN FILTERS - 40MM & 50MM

Filter suitable for filtration of sand and inorganic particles on drip, micro jets and sprinklers. Incoming dirty water is forced through a directional nozzle plate onto the inside of the stainless steel filter screen. This centrifugal motion and gravity move the debris downward and out the flushing valve. Periodical opening of the flush valve will release the dirt from the debris area. without the need to open the filter for cleaning, thus the filter is kept cleaner for a longer period.

### Features

- Complete glass reinforced polypropylene construction makes the filter durable to time, solar radiation and chemicals.
- Can be used as main or secondary filter
- Easy to clean by removing the screen element from the filter housing for rinsing

### Specifications

- Screen Surface Area: 40mm - 185cm<sup>2</sup>  
50mm - 274cm<sup>2</sup>
- Discharge: 40mm - 133lpm  
50mm - 266lpm
- Working Pressure: 800kPa
- Body: PPC
- Screen: INOX

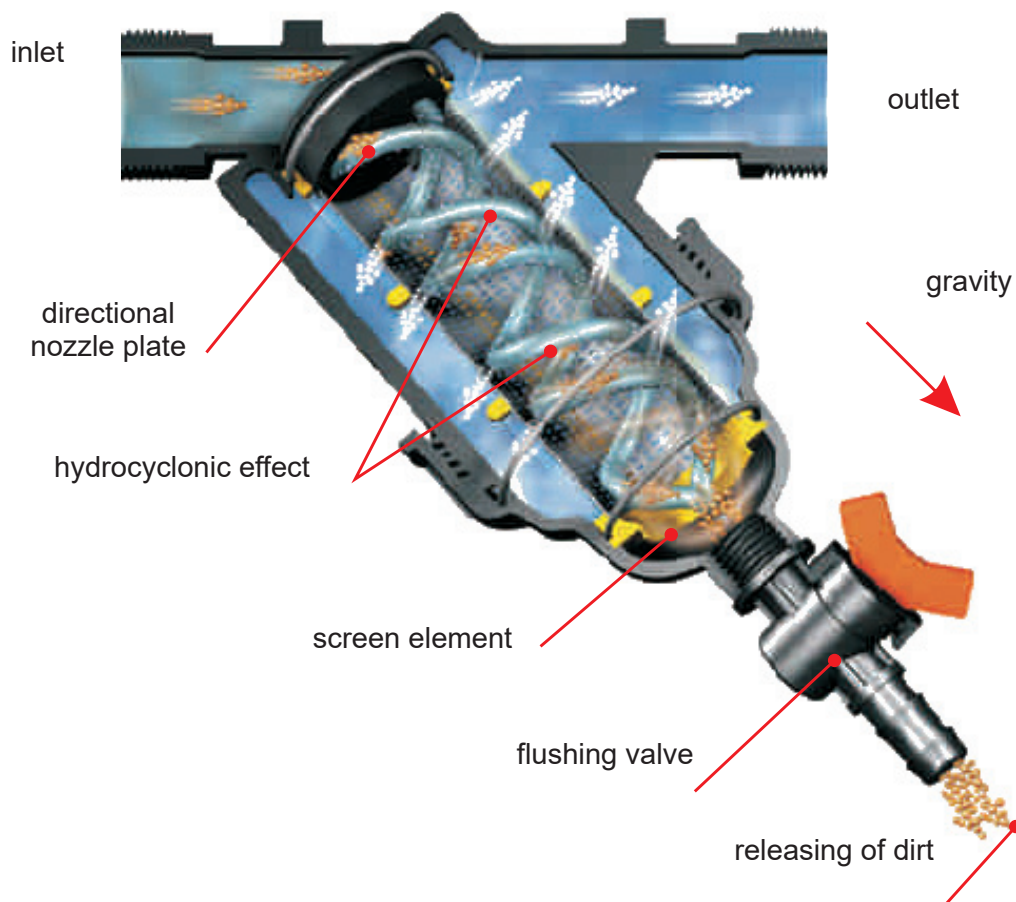


Part No.	Description
<b>40mm Plastic Body Screen Mesh Filter</b>	
HR3388-40	40mm x 120 mesh screen
<b>40mm Screen Filters - Spare Parts Mesh Elements</b>	
HR338840-60M	60mesh element (Grey)
HR338840-80M	80 mesh element (Black)
HR338840-120M	120 mesh element (Red)
HR338840-150M	150 mesh element (Brown)





Part No.	Description
<b>50mm Plastic Body Screen Mesh Filter</b>	
HR3388-50	50mm x 120 mesh screen
<b>50mm Screen Filters - Spare Parts Mesh Elements</b>	
HR338850-60M	60mesh element (Grey)
HR338850-80M	80 mesh element (Black)
HR338850-120M	120 mesh element (Red)
HR338850-150M	150 mesh element (Brown)



## HR PRODUCTS SCREEN FILTERS - 40MM & 50MM



### FILTER SCREEN MESH/ MICRON CONVERSIONS

Filter Screen Mesh / Micron Conversions				
Mesh	60	80	120	150
Micron	250	200	125	100
Colour	Grey	Black	Red	Brown
				



## HR PRODUCTS DISC FILTERS - 20MM & 25MM

Filter suitable for filtration of sand and inorganic particles on drip, micro jets and sprinklers.  
Available with either a screen or disc filtration system.

### Features

- Complete glass reinforced polypropylene construction makes the filter durable to time, solar radiation and chemicals.
- Used mainly as a secondary filter
- Easy to clean by removing the screen element from the filter housing for rinsing

### Specifications

- Disc Surface Area: 20mm - 152cm<sup>2</sup>  
25mm - 152cm<sup>2</sup>
- Disc Discharge: 20mm - 66lpm  
25mm - 83lpm
- Screen Surface Area: 20mm - 90cm<sup>2</sup>  
25mm - 90cm<sup>2</sup>
- Screen Discharge: 20mm - 83lpm  
25mm - 100lpm
- Working Pressure: 600kPa
- Body: PPC
- Cartridge: PPC
- Screen-Spring: INOX



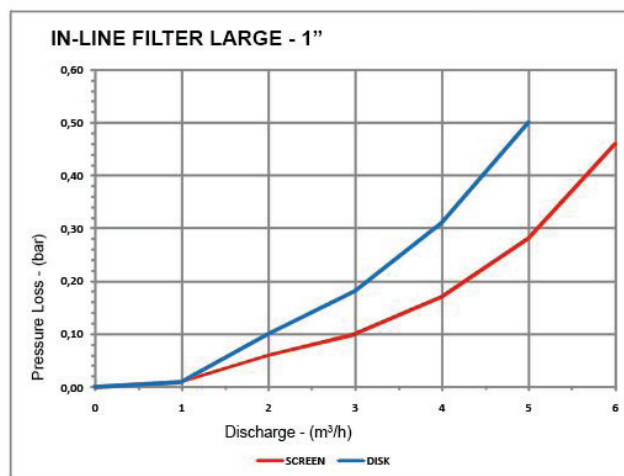
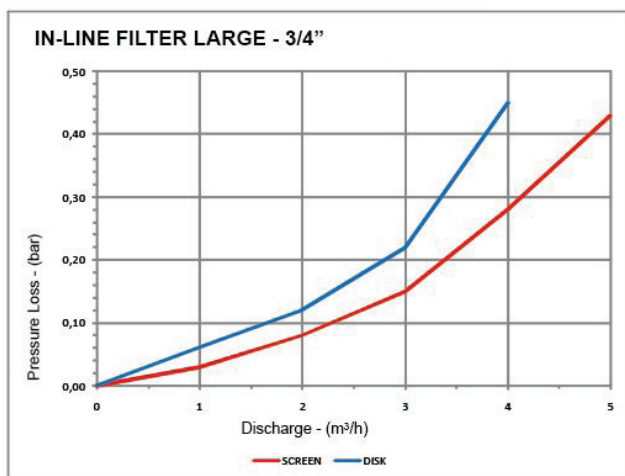
Part No.	Description
<b>20mm Plastic Body Disc Filter</b>	
HR3383-20	20mm x 120 disc
<b>20mm Disc Filters - Spare Parts Mesh Elements</b>	
HR338320-120M	120 mesh element (Red)
HR338320-150M	150 mesh element (Black)

Part No.	Description
<b>25mm Plastic Body Disc Filter</b>	
HR3383-25	25mm x 120 disc
<b>25mm Disc Filters - Spare Parts Mesh Elements</b>	
HR338325-120D	120 mesh disc element (Red)
HR338325-120M	120 mesh element (Red)
HR338325-150M	150 mesh element (Black)





## HR PRODUCTS DISC FILTERS - 20MM & 25MM

### PRESSURE LOSS DIAGRAMS



**Note** : All measurements have been taken in clean water conditions.

### FILTER SCREEN MESH/ MICRON CONVERSIONS

Filter Screen Mesh / Micron Conversions		
Mesh	120	150
Micron	125	100
Colour	Red	Black
		







# **MAZZEI**

# **FERTILIZER**

# **INJECTORS**





## MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

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Mazzei Injectors (patented) are extremely efficient, compact differential injection devices. Currently operating successfully in thousands of installations worldwide. Mazzei Injectors offer a reliable, accurate and economical method to inject virtually any liquid or gas substance into a pressurized fluid stream.

### Application

The highly versatile Mazzei Injectors are suitable for a wide variety of applications -

#### Agriculture

*Ag Irrigation Systems* - to inject fertilizers and other chemicals or water treatment additives.

*Ag Spray Systems* - for mixing and/or the transfer of concentrated pesticide materials.

*Food Processing* - for water chlorination, injection of detergents, bacterial agents and other water treatment purification additives.

#### Home and Garden

*Irrigation Systems* - for application of liquid fertilizer through landscape sprinkler or drip irrigation systems, hose end sprinklers and/or spray nozzles.

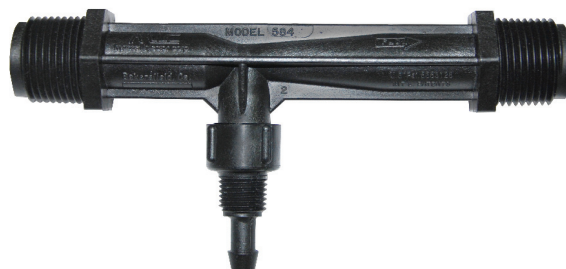
(Check local guides)

#### Industrial/Commercial

*Water Treatment* - to inject air, liquids, gases (ozone) and other water purification chemicals for cooling tower or other water or fluid recirculatory systems, waste

water systems and potable water systems.

*Washing and Cleaning* - to inject detergents, solvents and other cleaning agents into carpet cleaning equipment, car wash systems, dishwashing equipment and other industrial cleaning processes.



# MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

## Features

- Molded from high quality thermoplastics with superior strength, high temperature capability and resistant to most chemicals
- No moving parts, low maintenance trouble-free operation
- Unique design allows maximum cavitation in the injection chamber, thereby providing instantaneous mixing
- Ideally suited for continuous mixing functions, requires no secondary blending devices
- Initial cost and installation cost are low
- Powered by the motive fluid, no external energy required for most installations
- Available in a broad range of sizes, flows and injection capacities

**\*\*Please note it is strongly recommended that a pressure gauge be fitted on either side of the injector**

Part No.	Description	Part No.	Description
HR283	7.8lph Mazzei Venturi Fertilizer Injector - 15mm	HRK184	Suction Kit suits HR283, HR384, HR484 & HR584
HR384	38.4lph Mazzei Venturi Fertilizer Injector - 15mm	HRK183	Suction Kit suits HR878, HR1078 & HR1583A
HR484	48lph Mazzei Venturi Fertilizer Injector - 15mm	HRK282	Suction Kit suits HR2081A
484X	PVDF Mazzei Venturi Fertilizer Injector - 20mm Suitable for chlorine, sulphuric and nitric acids Resistant to ozone	<b>Mazzei Fertilizer Injector Spare Parts</b>	
HR584	81.6lph Mazzei Venturi Fertilizer Injector - 20mm	CR2	Ball & Washer for HR383, HR484, HR584
HR878	212.4lph Mazzei Venturi Fertilizer Injector - 25mm	CR3	Ball / Spring & Washer for HR878, HR1078
HR1078	327lph Mazzei Venturi Fertilizer Injector - 25mm		
HR1583A	652.8lph Mazzei Venturi Fertilizer Injector - 40mm		
HR2081A	4716lph Mazzei Venturi Fertilizer Injector - 50mm		

\* Injection flow rates for Mazzei Injectors based on 350kPa inlet with 211kPa on outlet

## MAZZEI VENTURI FERTILIZER INJECTOR SPARE PARTS

**Suction Kit**



**Ball / Spring & Washer**





## MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

Information needed to select an Injector -

**1. INLET PRESSURE (Upstream Pressure Available) -**

What is the pressure upstream from the injector?

**2. MOTIVE FLOW RATE (Flow through the Injector) -**

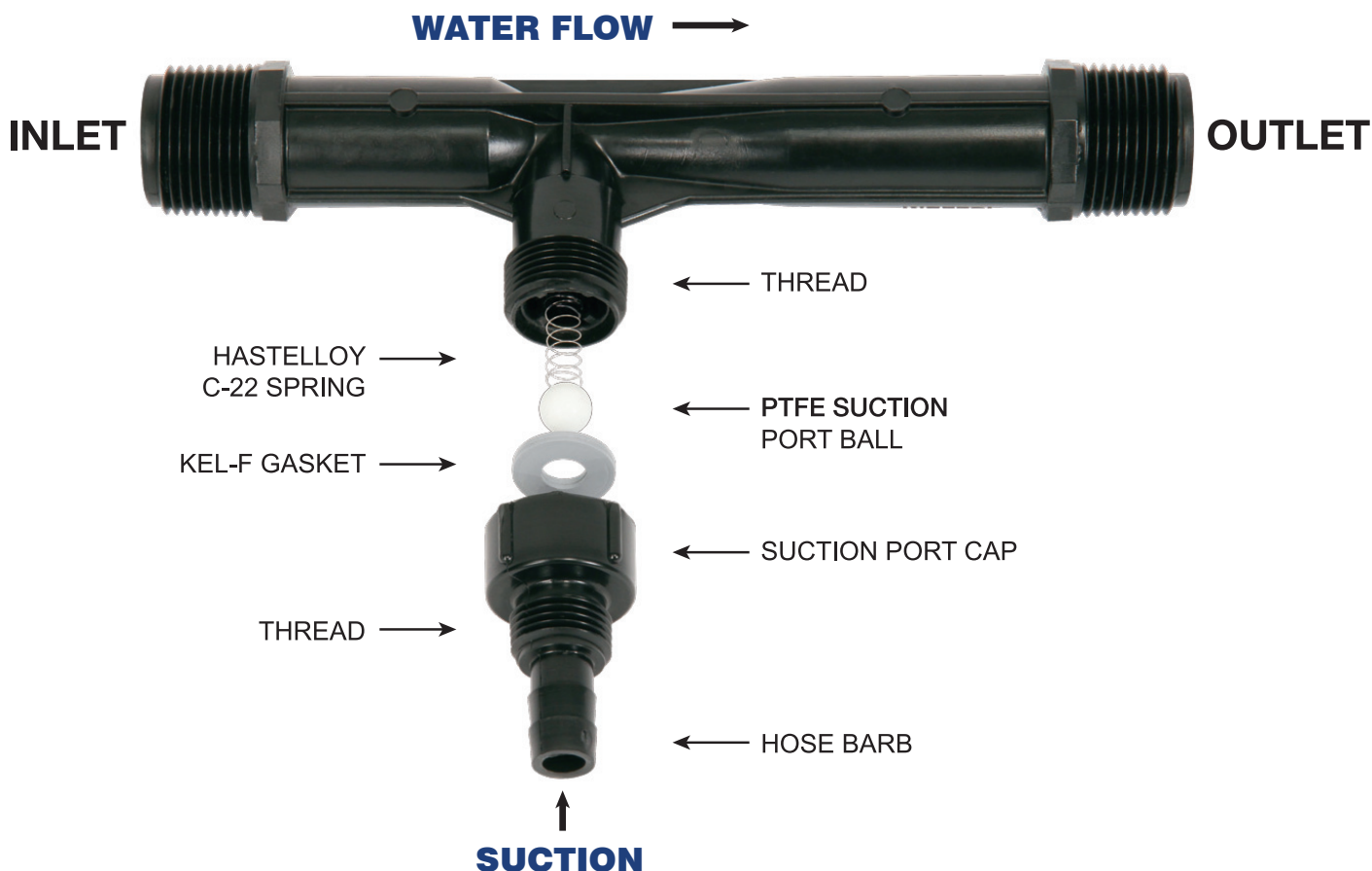
How much water needs to go through the injector?

**3. OUTLET PRESSURE (Downstream Pressure) -**

What pressure will the Injector see downstream after installation?

**4. INJECTION RATE (Suction Rate) -**

How much do you want to inject?

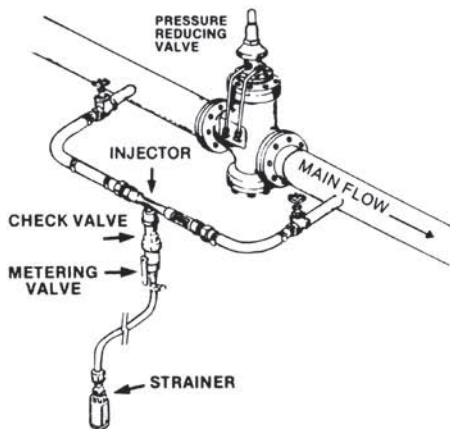


# MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

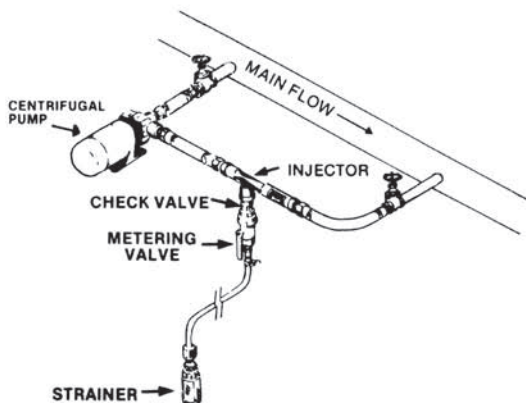
## How the Mazzei Fertilizer Injector works:

When pressurized, operating (motive) fluid enters the Injector inlet, it is constricted toward the injection chamber and changes into a high velocity jet stream. The increase in velocity through the injection chamber results in a decrease in pressure, thereby enabling an additive material to be drawn through the suction port and entrained into the motive stream. As the jet stream is diffused toward the injector outlet, its velocity is reduced and it is converted into pressure energy (but at a pressure lower than the injector inlet pressure.)

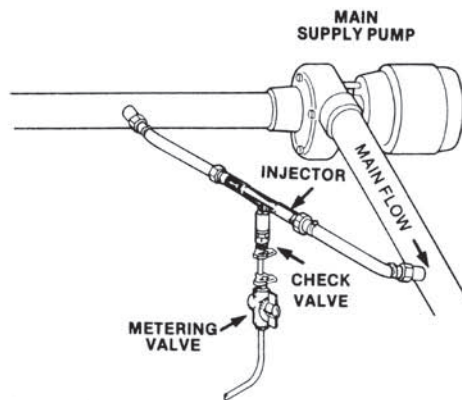
## Typical Installations



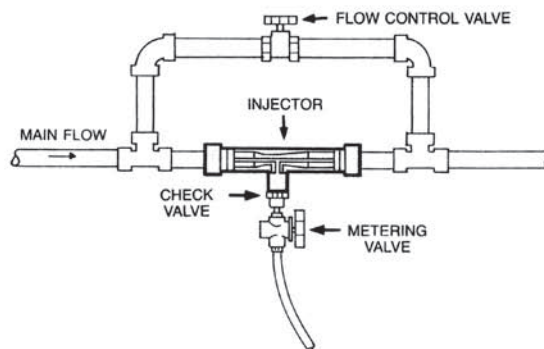
Injector installed around a point of restriction such as a regulator valve or gate valve which creates a differential pressure, thereby allowing the injector to produce a vacuum.



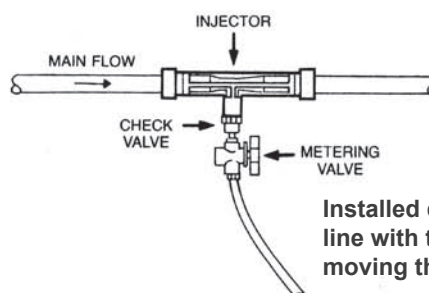
Installed in conjunction with a centrifugal pump to boost pressure through the injector thereby creating a differential pressure and producing a vacuum for chemical induction downstream from the pump.



Injector installed across the differential pressure created by an existing booster or supply pump in the system. It is plumbed from the discharge side to the intake side of the pump.



Injector installed in main flow line with flow control valve on by-pass line.



Installed directly in the main flow line with total flow of the system moving through the injector.



# MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

INJECTOR PERFORMANCE TABLE																			
Operating Pressure		Suction Capacity of Mazzei Injectors at Various Operating Conditions																	
Inlet kPa	Outlet kPa	HR283 15mm		HR384 15mm		HR484 15mm		484X 20mm		HR584 20mm		HR878 25mm		HR1078 25mm		HR1583 40mm		HR2081A 50mm	
		Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm
35	0		0.20		0.65		0.92		1.4		1.8		3.9		6.4		8.5		39.7
	7	0.64	0.13	2.7	0.54	4.5	0.65	4.5	1.0	7.9	1.8	13.8	2.2	20.7	2.9	40.6	5.3	123	39.7
	14		0.06		0.47		0.42		0.75		1.7		1.5		1.3		3.3		39.7
	21				0.32				0.46		1.6		0.46		0.17				13.5
	28	*(0.25)		*(0.27)		*(0.31)		*(0.25)		*(0.31)	0.63	*(0.28)		*(0.28)		*(0.31)		*(0.32)	8.5
70	0		0.30		0.96		1.1		1.8		1.7		5.9		6.6		13.8		39.7
	14	0.91	0.18	3.8	0.72	6.4	0.88	6.4	1.4	11.2	1.7	19.5	3.9	29.3	4.7	57.4	9.0	174	39.7
	35		0.07		0.48		0.38		0.74		1.7		2.3		2.6		4.9		29.5
	49				0.13		0.17		0.23		0.83		0.99		1.2		2.6		9.4
	56	*(0.49)		*(0.58)		*(0.59)		*(0.53)		*(0.63)	0.69	*(0.61)	0.23	*(0.57)	0.27	*(0.61)		*(0.63)	1.9
105	0		0.34		0.84		1.1		2.4		1.7		5.5		6.3		14.2		39.7
	35		0.17		0.71		0.72		1.3		1.7		3.9		5.0		10.3		39.3
	49	1.1	0.11	4.6	0.53	7.8	0.52	7.8	0.98	13.7	1.7	23.9	2.8	35.9	4.0	70.3	7.8	213	36.3
	70				0.30						0.88		1.4		2.1		5.4		13.4
	84	*(0.74)		*(0.91)		*(0.88)		*(0.61)		*(0.95)	0.69	*(0.88)	0.45	*(0.92)	1.0	*(0.91)	0.92	*(0.94)	4.8
141	0		0.37		0.82		1.1		2.4		1.5		5.2		6.1		14.3		39.7
	35		0.23		0.83		0.98		1.7		1.5		5.0		6.0		12.9		39.7
	70	1.2	0.13	5.4	0.58	9.0	0.59	9.0	0.84	15.8	1.4	27.6	3.0	41.4	4.4	81.2	9.0	245	29.5
	84		0.03		0.40		0.49		0.53		1.2		2.1		3.2		8.3		18.8
	105	*(1.05)		*(1.16)		*(1.20)		*(0.93)		*(1.27)	0.92	*(1.16)	1.3	*(1.22)	1.9	*(1.26)	4.1	*(1.23)	9.5
176	0		0.37		0.89		1.1		2.4		1.5		5.1		6.0		14.3		39.7
	35		0.20		0.89		1.0		2.0		1.5		5.1		6.0		14.2		39.7
	70	1.3	0.16	6.0	0.80	10.1	0.86	10.1	1.3	17.7	1.5	30.9	4.6	46.3	5.6	90.8	12.2	274	39.5
	105		0.04		0.42		0.46		0.62		1.3		2.8		4.3		9.3		25.4
	141	*(1.30)		*(1.44)		*(1.52)		*(1.16)		*(1.55)	0.76	*(1.48)	1.2	*(1.54)	2.0	*(1.55)	3.0	*(1.57)	8.4
211	0		0.38		0.89		1.0		2.5		1.5		5.0		5.9		14.2		39.7
	35		0.37		0.91		1.0		2.4		1.6		4.9		5.9		14.2		39.7
	70	1.5	0.24	6.6	0.87	11.1	1.0	11.1	1.8	19.4	1.5	33.9	4.8	50.8	5.9	99.4	13.3	301	39.7
	105		0.15		0.67		0.71		1.0		1.5		4.1		5.1		10.5		32.2
	141	*(1.58)		*(1.77)		*(1.79)		*(1.20)		*(1.90)	1.1	*(1.84)	2.2	*(1.83)	3.4	*(1.83)	7.9	*(1.83)	21.5
246	0		0.38		0.91		1.0		2.5		1.6		5.0		5.9		14.3		39.7
	35		0.38		0.91		1.0		2.4		1.6		5.0		5.9		14.2		39.7
	70	1.5	0.30	7.1	0.91	11.9	1.0	11.9	2.1	20.9	1.6	36.6	4.8	54.8	5.9	107	14.1	325	39.7
	105		0.21		0.86		1.0		1.5		1.5		4.7		5.7		12.9		39.5
	141	*(1.83)		*(2.01)		*(2.07)		*(1.65)		*(2.22)	1.3	*(2.12)	3.3	*(2.11)	4.6	*(2.07)	10.4	*(2.14)	29.0
281	0		0.38		0.89		1.0		2.5		1.6		4.8		5.8		14.3		39.7
	35		0.38		0.89		1.1		2.4		1.6		4.8		5.8		14.4		39.7
	70		0.35		0.88		1.0		2.4		1.6		4.8		5.8		14.3		39.7
	105	1.6	0.26	7.6	0.88	12.8	1.0	12.8	1.8	22.4	1.6	39.1	4.8	58.6	5.8	115	13.9	347	39.7
	141		0.16		0.79		0.96		1.3		1.5		4.6		5.7		12.1		33.0
316	0		0.38		0.86		1.0		2.6		1.6		5.0		5.8		14.3		39.7
	35		0.38		0.87		1.0		2.4		1.6		5.0		5.8		14.4		39.7
	70		0.37		0.87		1.1		2.3		1.6		5.0		5.8		14.3		39.7
	105	1.7	0.31	8.0	0.86	13.5	1.1	13.5	2.2	23.7	1.6	41.5	5.0	62.2	5.8	122	14.1	368	39.7
	141		0.21		0.87		1.0		1.6		1.6		4.9		5.9		13.4		38.2
352	0		0.38		0.89		1.0		2.6		1.6		4.7		5.8		14.3		39.7
	35		0.38		0.89		1.0		2.5		1.6		4.7		5.8		14.3		39.7
	70		0.38		0.89		1.1		2.4		1.6		4.7		5.8		14.2		39.7
	105		0.36		0.89		1.1		2.3		1.6		4.7		5.8		14.2		39.7
	141	1.8	0.30	8.5	0.85	14.3	1.1	14.3	1.8	25.0	1.6	43.7	4.7	65.5	5.8	128	14.1	388	39.7
	176		0.22		0.85		1.0		0.51		1.5		4.3		5.8		12.8		37.0
	211		0.13		0.63		0.80				1.3		3.5		5.4		10.8		28.5
	246		0.04		0.38		0.49				0.99		2.3		4.0		7.6		18.9
	281	*(2.60)		*(2.78)		*(2.88)		*(2.04)		*(3.16)	0.60	*(2.97)	0.60	*(3.09)	2.2	*(2.95)	2.5	*(2.92)	7.2

\*Numbers in parenthesis indicate the injector outlet pressure when suction stops (Zero Suction Point).





# MAZZEI VENTURI FERTILIZER INJECTORS-

## 15MM - 50MM

INJECTOR PERFORMANCE TABLE																			
Operating Pressure		Suction Capacity of Mazzei Injectors at Various Operating Conditions																	
Inlet kPa	Outlet kPa	HR283 15mm		HR384 15mm		HR484 15mm		484X 20mm		HR584 20mm		HR878 25mm		HR1078 25mm		HR1583 40mm		HR2081A 50mm	
		Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm
422	0		0.38		0.86		1.1		2.6		1.6		4.5		5.8		14.4		39.7
	35		0.38		0.86		1.1		2.6		1.6		4.5		5.8		14.4		39.7
	70		0.38		0.85		1.1		2.4		1.6		4.5		5.8		14.4		39.7
	105	2.0	0.38	9.3	0.85	15.6	1.1	15.6	2.4	27.4	1.6	47.9	4.5	71.8	5.8	141	14.3	425	39.7
	141		0.36		0.84		1.1		2.3		1.6		4.5		5.8		14.3		39.7
	211		0.24		0.78		1.0		1.4		1.6		4.4		5.8		13.0		37.8
	246		0.15		0.73		0.96				1.5		3.9		5.7		11.5		32.0
	281		0.08		0.52		0.75				1.2		2.6		4.8		9.3		24.0
	316	*(3.20)		*(3.33)	0.15	*(3.57)		*(2.43)		*(3.76)	0.90	*(3.60)	1.0	*(3.59)	2.8	*(3.47)	5.1	*(3.52)	13.6
492	0		0.38		0.76		1.1		2.6		1.6		4.6		5.8		14.4		39.7
	35		0.38		0.76		1.1		2.6		1.6		4.6		5.8		14.4		39.7
	70		0.38		0.77		1.0		2.4		1.6		4.6		5.8		14.4		39.7
	105		0.38		0.76		1.0		2.3		1.6		4.6		5.8		14.4		39.7
	141	2.2	0.38	10.0	0.77	16.9	1.0	16.9	2.2	29.6	1.6	51.7	4.6	77.5	5.8	152	14.4	459	39.7
	211		0.33		0.77		1.0		1.9		1.6		4.6		5.8		14.2		39.7
	281		0.18		0.75		1.0		1.0		1.6		4.2		5.8		12.5		33.3
	316		0.12		0.69		0.84				1.4		2.9		5.1		10.0		27.7
	352		0.05		0.47		0.71				1.0		1.9		3.4		7.8		20.5
	387	*(3.80)		*(3.68)		*(4.11)		*(2.86)		*(4.43)	0.57	*(4.10)	0.81	*(4.14)	1.8	*(3.99)	2.7	*(4.11)	8.9
562	0		0.38		0.73		1.0		2.6		1.6		4.6		5.9		14.6		39.7
	35		0.38		0.73		1.0		2.6		1.6		4.6		5.9		14.6		39.7
	70		0.38		0.73		1.0		2.6		1.6		4.6		5.9		14.6		39.7
	105		0.38		0.73		1.0		2.5		1.6		4.6		5.9		14.6		39.7
	141	2.3	0.38	10.7	0.73	18.0	1.0	18.0	2.5	31.6	1.6	55.3	4.6	82.9	5.9	162	14.6	491	39.7
	211		0.38		0.73		1.0		2.5		1.6		4.6		5.9		14.6		39.7
	281		0.28		0.73		0.99		1.7		1.6		4.6		5.9		13.9		38.1
	352		0.15		0.71		0.94		0.43		1.5		3.5		5.7		11.1		31.9
	422				0.43		0.39				1.0		1.6		3.3		5.8		17.0
	457	*(4.26)		*(4.35)		*(4.64)		*(3.65)		*(5.10)	0.49	*(4.75)	0.50	*(4.82)	2.0	*(4.92)	0.75	*(4.68)	3.8
633	0		0.38		0.70		0.86		2.6		1.7		4.6		5.9		14.4		39.7
	35		0.38		0.70		0.86		2.6		1.7		4.6		5.9		14.4		39.7
	70		0.38		0.70		0.86		2.5		1.7		4.6		5.9		14.4		39.7
	141		0.38		0.70		0.86		2.5		1.7		4.6		5.9		14.4		39.7
	211	2.5	0.38	11.4	0.70	19.1	0.86	19.1	2.4	33.6	1.7	58.7	4.6	87.9	5.9	172	14.4	521	39.7
	281		0.36		0.70		0.86		2.1		1.7		4.6		6.0		14.4		39.7
	352		0.22		0.70		0.86		1.6		1.7		4.4		5.9		13.7		37.9
	422		0.10		0.69		0.84				1.5		3.0		5.3		11.2		28.9
	492				0.29		0.26				0.83		1.1		2.4		3.0		11.3
	527	*(4.78)		*(4.99)		*(5.20)		*(3.81)		*(5.66)	0.33	*(5.32)	<0.10	*(5.41)	1.2	*(5.14)		*(5.31)	
703	0		0.38		0.68		0.83		2.6		1.8		4.8		5.9		14.6		39.7
	35		0.38		0.69		0.83		2.6		1.8		4.8		5.9		14.6		39.7
	70		0.38		0.68		0.83		2.5		1.8		4.8		5.9		14.6		39.7
	141		0.38		0.69		0.83		2.5		1.8		4.8		5.9		14.6		39.7
	211	2.6	0.38	12.0	0.69	20.2	0.83	20.2	2.5	35.4	1.8	61.8	4.8	92.7	5.9	182	14.6	549	39.7
	281		0.38		0.68		0.83		2.2		1.8		4.8		5.9		14.6		39.7
	352		0.32		0.69		0.83		1.7		1.8		4.7		5.9		14.4		39.2
	422		0.19		0.69		0.83				1.7		4.2		5.9		13.0		37.4
	492		0.07		0.66		0.81				1.4		2.8		5.1		9.2		26.0
	562	*(5.34)		*(5.52)		*(5.83)		*(4.19)		*(6.33)	1.0	*(5.94)	0.82	*(6.05)	1.9	*(5.72)	1.6	*(5.84)	7.6
844	0		0.38		0.68		0.77		2.8		2.0		4.7		5.9				39.7
	35		0.38		0.68		0.77		2.7		2.0		4.7		5.9				39.7
	70		0.38		0.68		0.77		2.7		2.0		4.7		5.9				39.7
	141		0.38		0.68		0.77		2.6		2.0		4.7		5.9				39.7
	211		0.38		0.68		0.77		2.5		2.0		4.7		5.9				39.7
	281		0.38		0.68		0.77		2.3		2.0		4.7		5.9				39.7
	352	2.9	0.35	13.1	0.68	22.1	0.77	22.1	2.0	38.7	2.0	67.7	4.7	101	5.9	-		601	39.7
	422		0.33		0.68		0.77		1.5		1.9		4.7		6.0				38.6
	492		0.25		0.68		0.76		1.2		1.9		4.4		5.9				37.5
	562		0.15		0.68		0.76				1.8		3.8		5.7				33.0
	633		0.06		0.54		0.73				1.0		2.1		3.8				19.5
	703	*(6.54)		*(6.81)		*(7.01)		*(5.00)		*(7.52)		*(7.14)	0.54	*(7.17)	1.4			*(7.09)	

\*Numbers in parenthesis indicate the injector outlet pressure when suction stops (Zero Suction Point).



# **VENTURI FERTILIZER INJECTORS**

# VENTURI FERTILIZER INJECTORS- 20MM & 25MM

Used to inject soluble or liquid fertilizer in greenhouse, open field and landscape watering systems.  
(Check local codes for backflow prevention laws.)

## Features

Kit includes: Venturi.  
Built in sight glass flow indicator.  
Control valve to throttle amount of fertilizer.  
1m of suction tube  
Screen

## Specifications

- Body - Polypropylene for resistance to acids and other chemicals.
- Maximum working pressure 785kPa
- Minimum working pressure on pressurized systems must be 98kPa.
- When using on by pass pressure differential between the inlet and outlet must be at least 70kPa.
- Venturi should always be installed on level plain.

**\*\*Please note it is strongly recommended that a pressure gauge be fitted on either side of the injector**

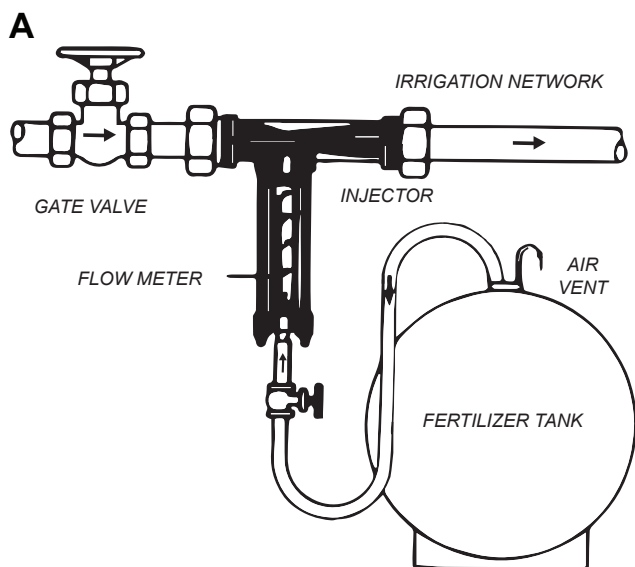


Model	Pressure (kPa)	98	147	196	245	294	Flowmeter Scale
Venturi-3	Motive Flow (lph)	414	468	528	576	600	1 to 40lph
	Suction Flow (lph)	51	56	56	56	56	
Venturi-5	Motive Flow (lph)	1085	1300	1410	1530	1630	8 to 120lph
	Suction Flow (lph)	90	97	103	108	110	
Venturi-7	Motive Flow (lph)	1450	1750	2000	2250	2500	40 to 250lph
	Suction Flow (lph)	202	225	245	248	250	
Venturi-9	Motive Flow (lph)	3550	4250	4850	5500	6000	40 to 250lph
	Suction Flow (lph)	245	260	315	325	330	

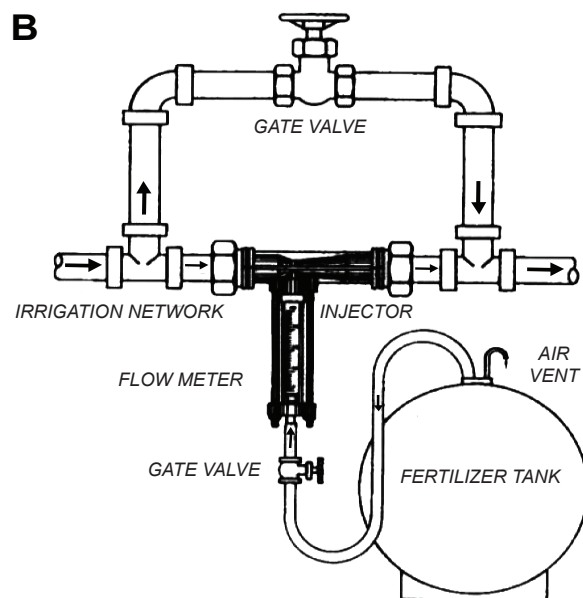
Part No.	Description
VENTURI-3	40lph Venturi Fertilizer Injector - 20mm
VENTURI-5	110lph Venturi Fertilizer Injector - 20mm
VENTURI-7	250lph Venturi Fertilizer Injector - 25mm
VENTURI-9	260lph Venturi Fertilizer Injector - 25mm



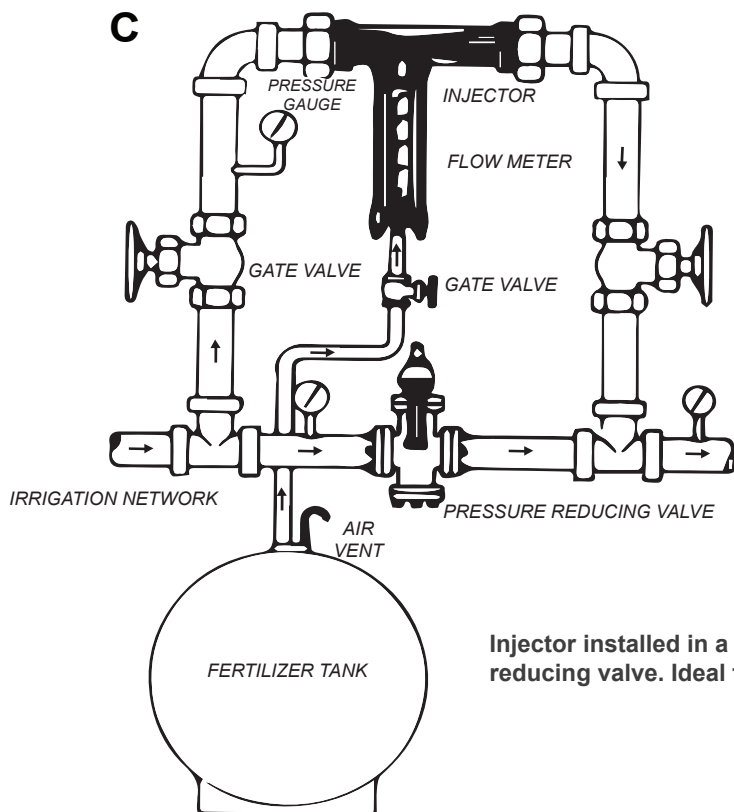
## VENTURI FERTILIZER INJECTORS- 20MM & 25MM



Injector installed directly in-line in the irrigation system. Ideal for small systems, greenhouses or nurseries.

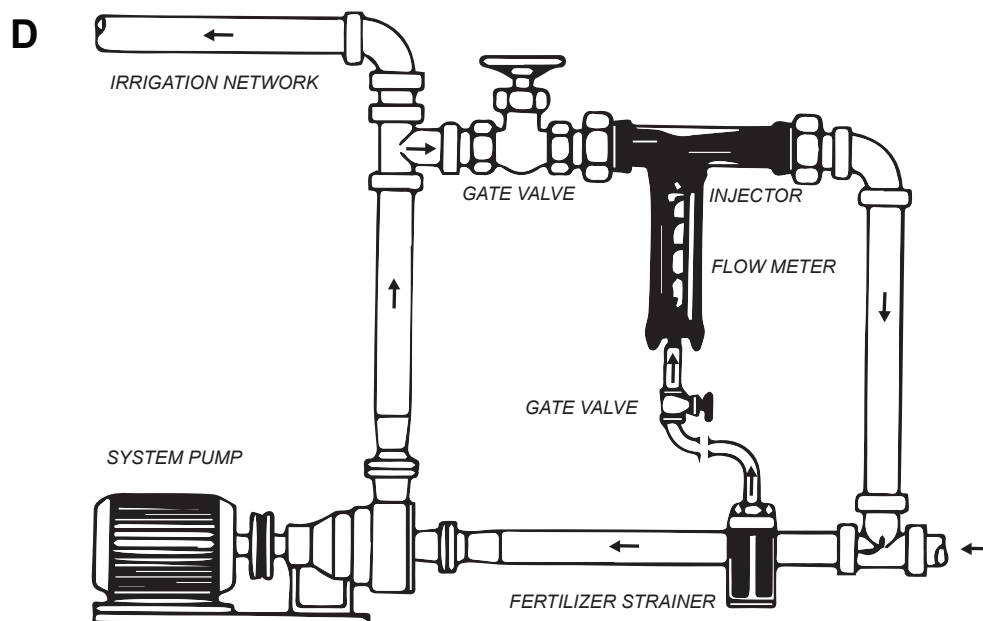


Injector installed directly in-line in the irrigation system, with a by-pass to create a pressure differential. Ideal for small systems, greenhouses or nurseries.

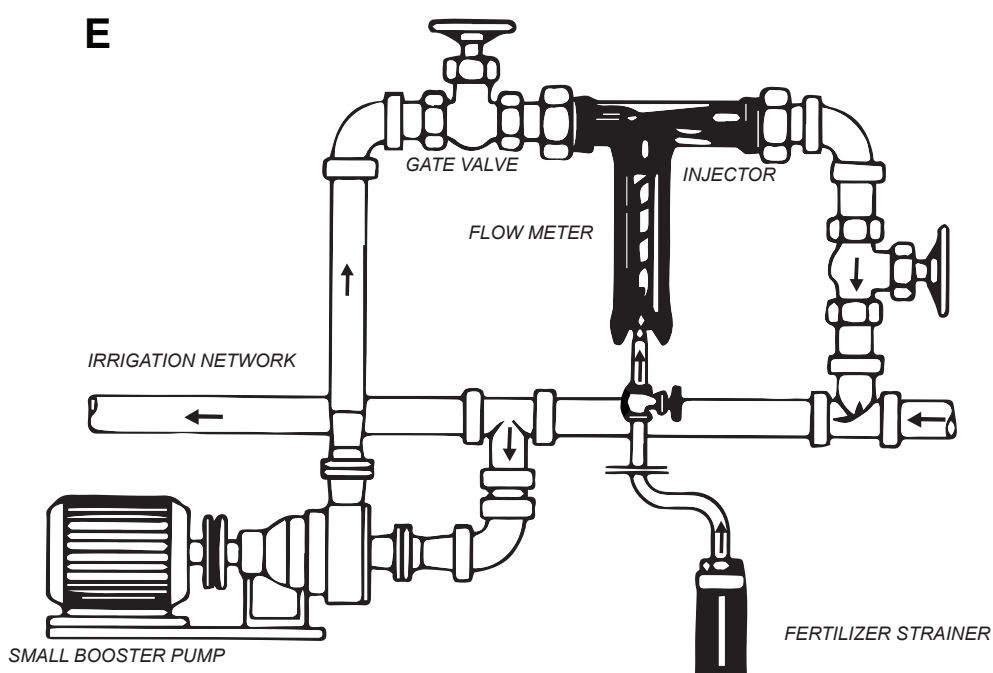


Injector installed in a by-pass line across a pressure reducing valve. Ideal for larger irrigation systems.

## VENTURI FERTILIZER INJECTORS- 20MM & 25MM



Injector installed in a bridge between the pump suction and pump discharge to take advantage of the pressure differential.



Injector working with pressure from a small booster pump. Used when the system pressure is too low to create a suitable pressure differential.



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