

The Aloft logo is positioned in the top right corner. It features the word "aloft" in a white, lowercase, sans-serif font. The letter "o" is replaced by a solid green circle. A thin white horizontal line runs across the top of the page, and a thin white vertical line runs down the left side, intersecting at a small green circle.

aloft

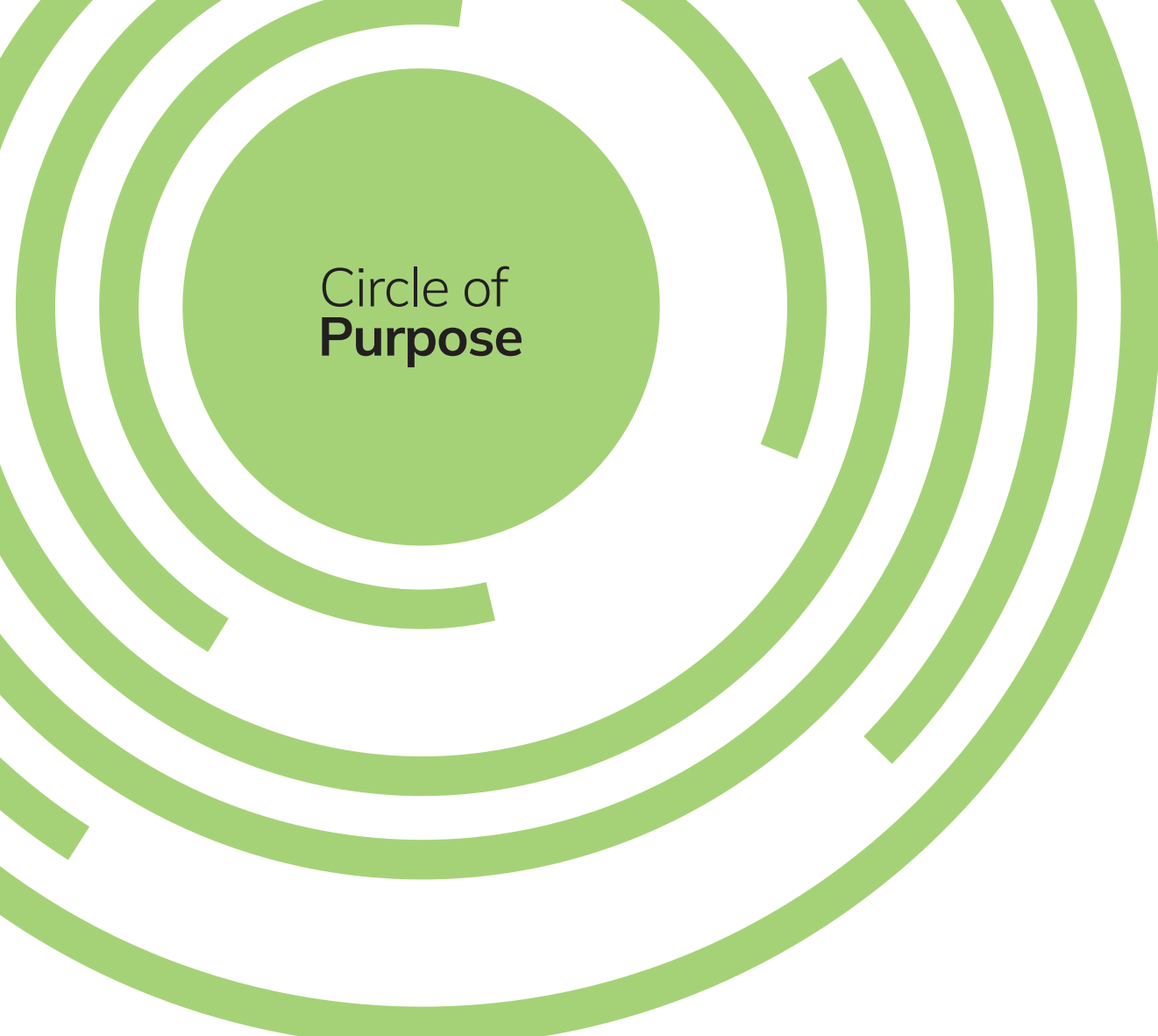
Reliable
Affordable
Precision

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Established in 2017, **Aloft Irritech** has grown into a trusted manufacturer and marketer of components, parts, and spares for **Drip Irrigation System, Sprinkler Irrigation System and Mini & Micro Sprinkler System**. With a fully automated and well-equipped manufacturing facility, the company delivers one of the widest and most cost-efficient product ranges in the industry.

Committed to maintaining international quality standards, **Aloft Irritech** focuses on providing reliable, durable and value-for-money products. Our dedication to quality and customer satisfaction continues to strengthen our reputation among esteemed clients and customers.

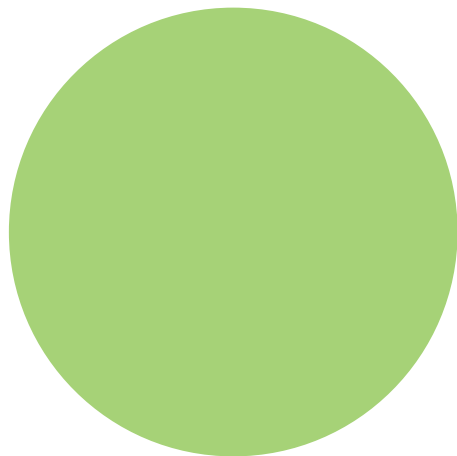


Circle of
Purpose

ACCURACY CONSISTENT
PRECISION-MADE ASSURED
EFFICIENT VALUE TRUSTWORTHY
CONSISTENT



Aloft Irritech is a leading manufacturer of high-quality **micro-irrigation components**. Equipped with advanced automated facilities, we provide cost-efficient, durable solutions that promote sustainable agriculture. Additionally, we offer **white-label partnerships**, delivering customized solutions to meet diverse client needs.





Vision

Our goal is to be a trusted, one-stop destination for the global micro-irrigation industry. We aim to achieve international benchmarks through continuous improvement and innovation, delivering the best products to our partners using our extensive experience, research, and expertise.

Mission

We believe agriculture is our culture, and we deeply respect farmers and the farming community. Our focus is to empower them with advanced irrigation solutions that boost productivity, improve yields, and support a sustainable future. We also understand that our success depends on the satisfaction of our customers.

8+

Years of Excellence

100+

High Quality Products

90+

Trusted Dealers

18+

States Presence

50+

Dedicated Employees

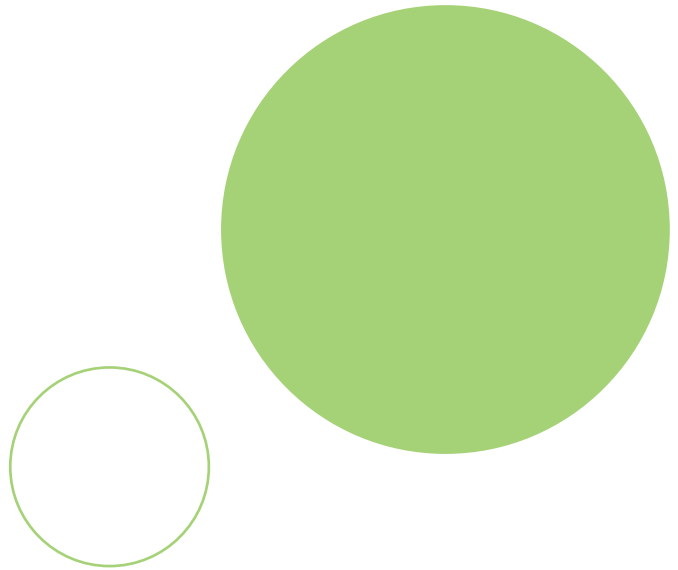


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Filters

Filtration in irrigation systems is a crucial process, to ensure the efficient operation of the system and to maintain the health of crops. Its primary purpose is to remove particles, sediments, organic matter and other debris from irrigation water before it reaches the emitters, drippers or sprinklers.



Screen Filter



Model	SF 250	SF 400	SF 500
Nominal Size	Φ 2"	Φ 2.5"	Φ 3"
Inlet/Outlet Connection Size (mm)	50	65	80
Maximum Operating Pressure (kg/cm²)	4 kg/cm²		
Maximum Recommended Flow	417 LPM (25m³/hr)	667 LPM (40m³/hr)	833 LPM (50m³/hr)
Range of Flow Rate (m³/hr)	20-30	30-40	40-50
Filter Element	120 Mesh SS Screen (Removable Element) with moulded plastic		
Filtration Area in (cm²)	490	825	1090
Length of Screen Element in (mm)	322.5	405	502
Drain Valve Port	1" Plastic Female Thread		
Vacuum Breaker Port	1/2" Brass Insert Female Thread		
Pressure Gauge Port	1/4" Brass Insert Female Thread		
Dimension of Filter in mm			
Length	518	605	700
Width	295	329.50	331
Height	294	294	294

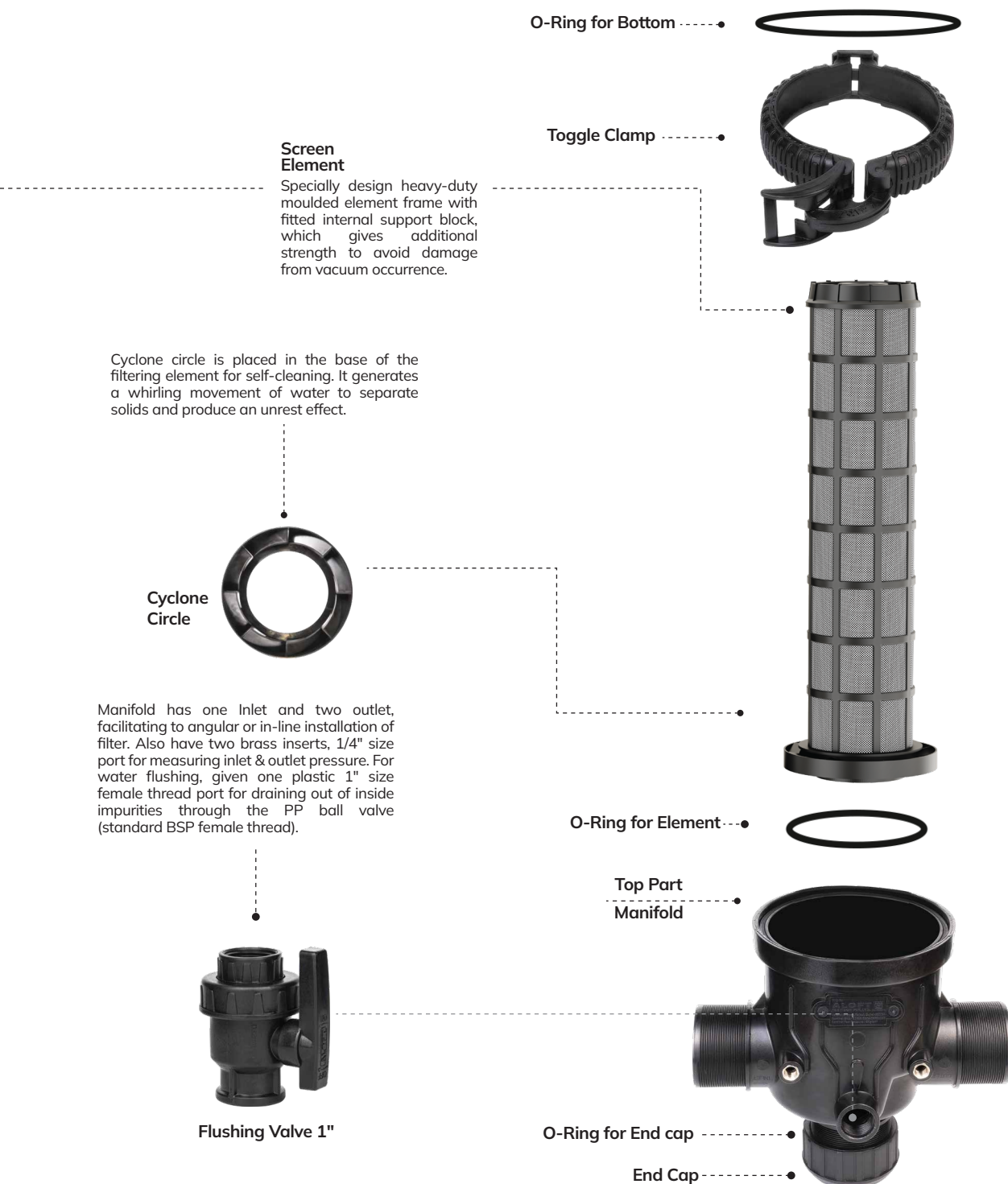


Screen Filter



Available End Connection:

- Thread
- Slip on flange end
- Split type flange end



- Features:**
- Waterway from outside to Inside for filtration.
 - Provided an atmospheric vacuum breaker valve for quick air in-out to avoid a vacuum in the system.
 - Easily open and close the filter with a heavy duty toggle-type clamp for the cleaning process of the filter.
 - PPGF slip on flange for easy installation of filter (optional).
 - For up side installation for easy and safe operation.
 - Bigger 1" size port for water flushing.
 - Screen elements attach with the cyclone circle, which provides superior filtering of water and increases element cleaning interval time.
 - 80 mesh SS screen available (optional).
 - Nylon and stainless-steel (SS) hybrid clamp available (optional).



Disc Filter



Model	DF 250	DF 400	DF 500
Nominal Size	Φ 2"	Φ 2.5"	Φ 3"
Inlet/Outlet Connection Size (mm)	50	65	80
Maximum Operating Pressure (kg/cm²)	4 kg/cm²		
Maximum Recommended Flow	417 LPM (25m³/hr)	667 LPM (40m³/hr)	833 LPM (50m³/hr)
Range of Flow Rate (m³/hr)	20-30	30-40	40-50
Filter Element	120 Mesh PP Plastic Disc (Removable Element)		
Filtration Area in (cm²)	1045	1385	1800
Length of Disc Element in (mm)	336	425	517
Drain Valve Port	1" Plastic Female Thread		
Vacuum Breaker Port	1/2" Brass Insert Female Thread		
Pressure Gauge Port	1/4" Brass Insert Female Thread		
Dimension of Filter in mm			
Length	518	605	700
Width	295	329.50	331
Height	294	294	294



2"

2.5"

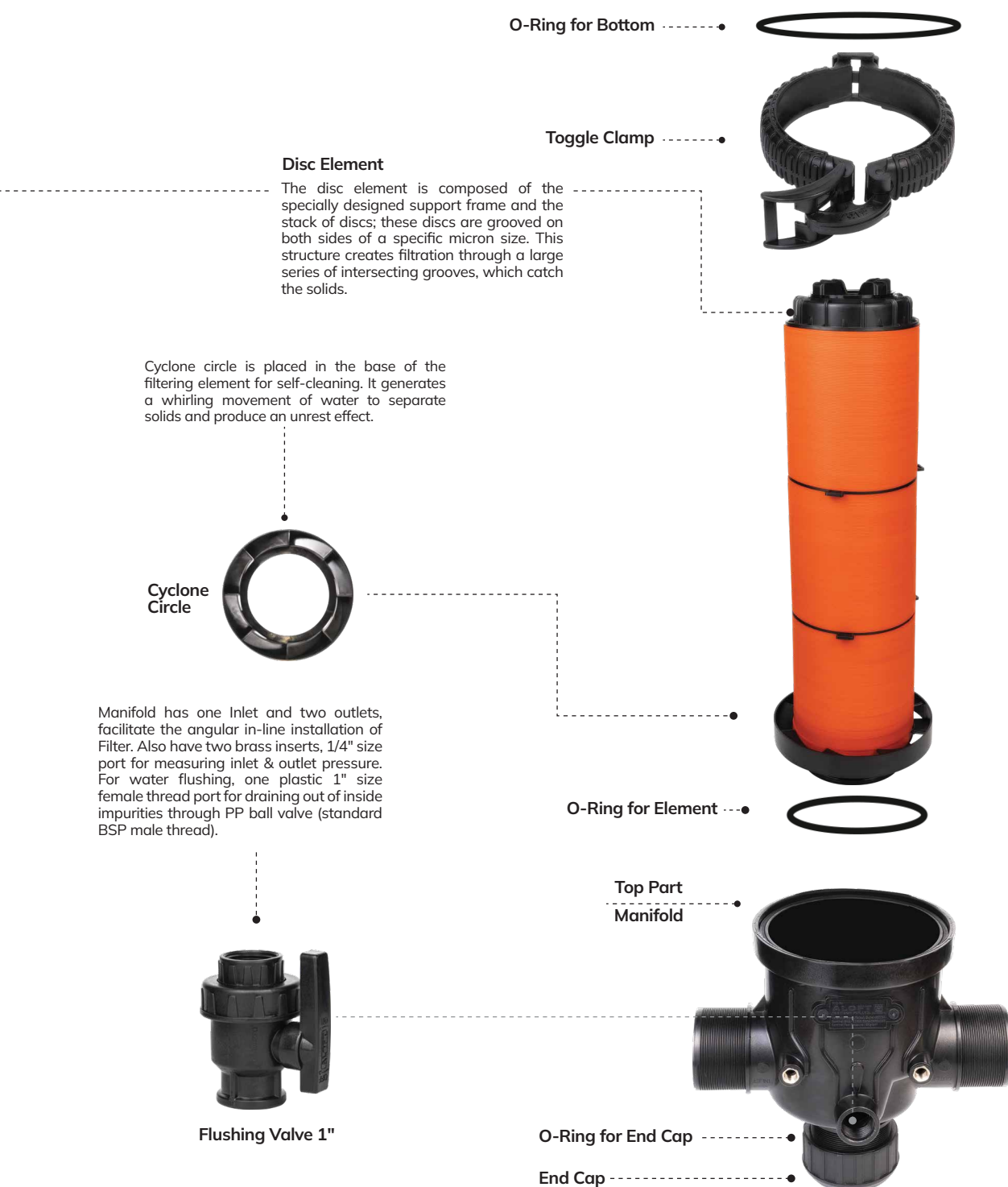
3"

Disc Filter



Available End Connection:

- Thread
- Slip on flange end
- Split type flange end



Features:

- Water way from outside to Inside for filtration.
- Provided an atmospheric vacuum breaker valve for quick air in-out to avoid a vacuum in the system.
- Easily open and close the filter with a heavy duty toggle-type clamp for the cleaning process of the filter.
- PPGF slip on flange for easy installation of filter (optional).
- For up side installation for easy and safe operation.
- Bigger 1" size port for water flushing.
- Disc elements attach with the cyclone circle, which provides superior filtering of water and increases element cleaning interval time.
- Nylon and stainless-steel (SS) hybrid clamp available (optional).

Hydro-Cyclone Filter



Features:

- Body made of reinforced plastic for long life.
- Hydro dynamically designed to create maximum centrifugal action.
- Sand particles can be easily flushed out through the drain part.
- The collector tank can be easily cleaned by opening the collector cover through the opening of the toggle clamps.
- T-type stands for stable fitment.
- Specially designed high wear resistant special plastic is inserted in the bottom of the cone to avoid wear due to the strong sand vortex.
- Flange type connection to joint cone and collector tank for proper stable fitment and support.
- Extra wide locking portion provides a perfect joint of cone and manifold for better sealing and provides no leakage.

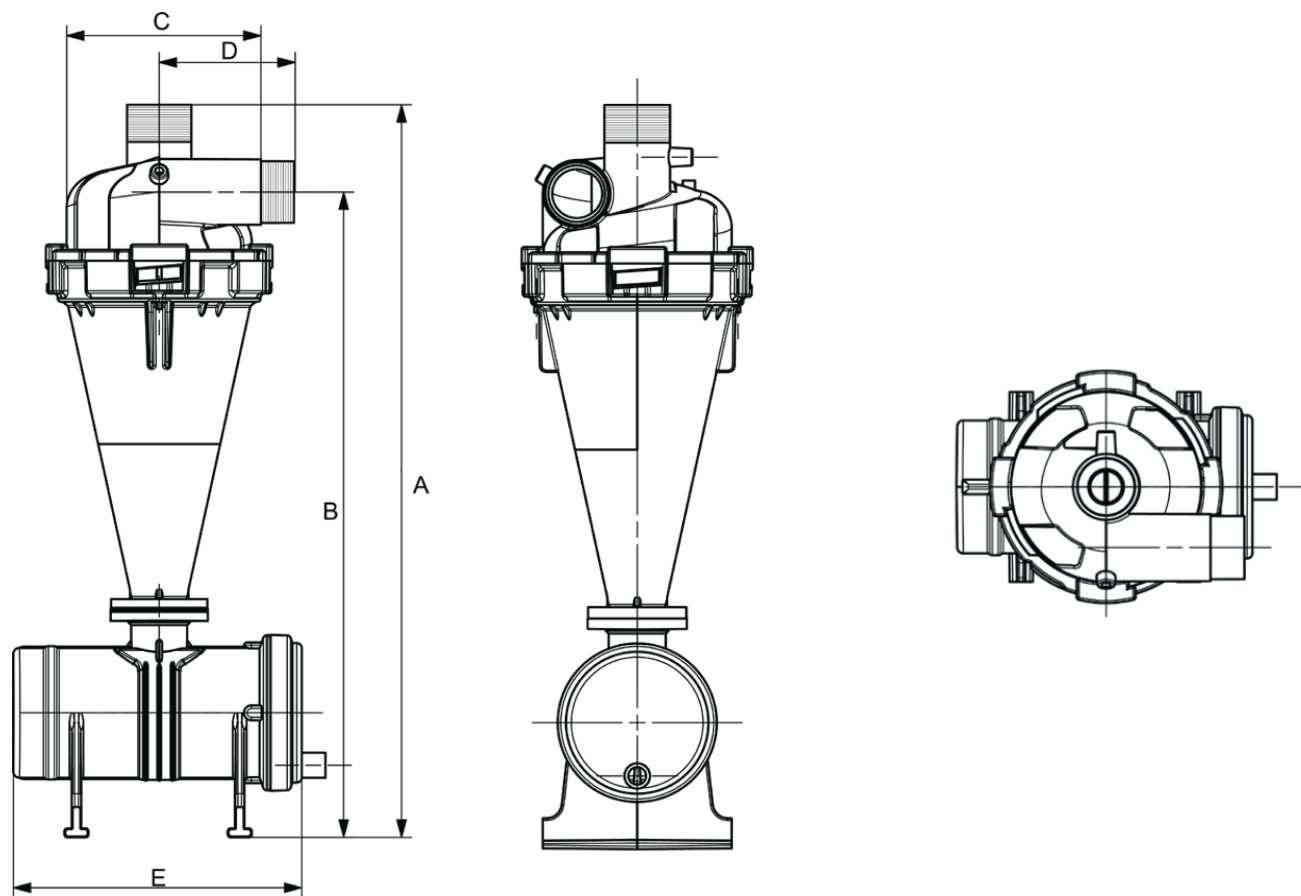
Technical Specification:

- Size: 2", 2.5", 3".
- Material of construction: Reinforced glass/nylon.
- Maximum operating pressure: 3 kg/cm².

End Connection Option:

- Slip on flange
- Threaded

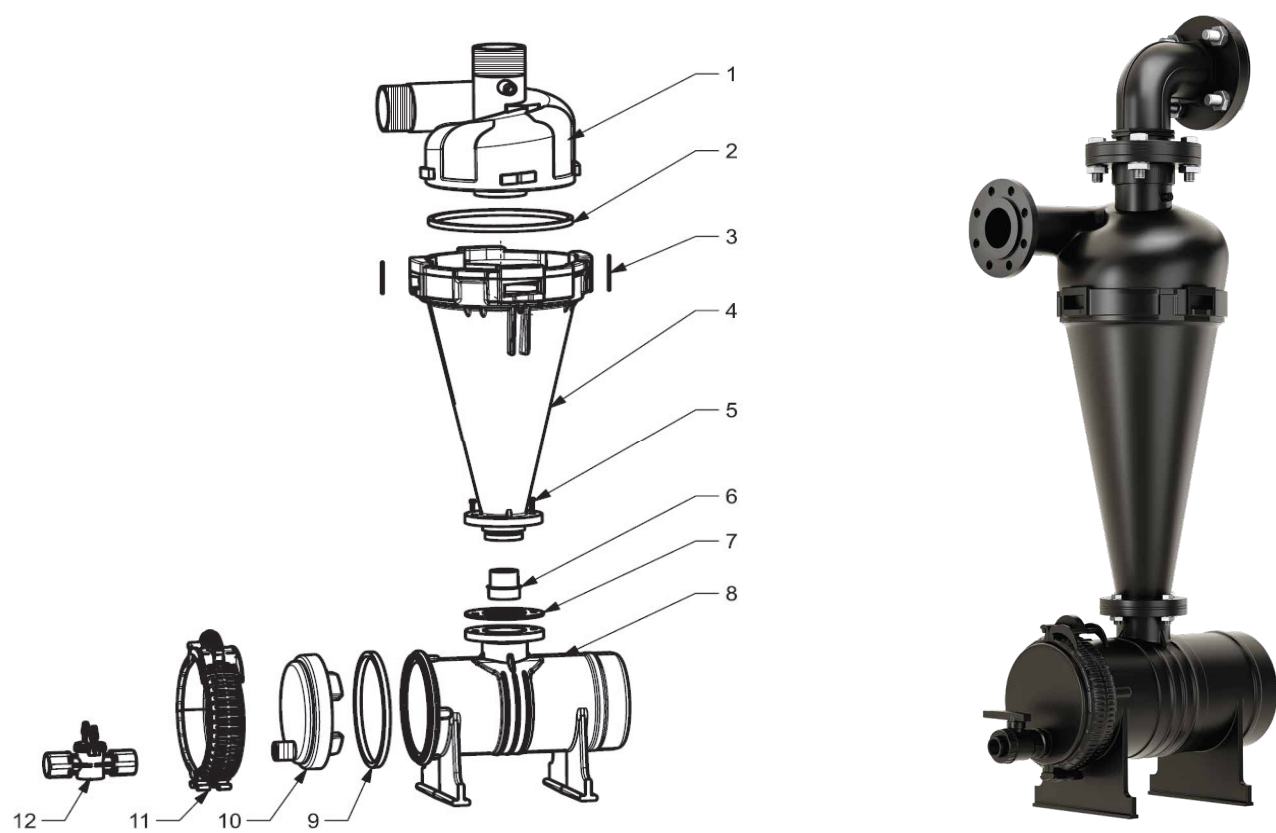
Hydro-Cyclone Filter



Dimensions of Hydro-Cyclone Filter (mm):

Model No.		AIPL-HC50	AIPL-HC65	AIPL-HC80
Outlet Connection (mm)		50mm	65mm	80mm
Rec. Range of Flow Rate (m³/hr)		15-25 m³/hr	25-40 m³/hr	35-50 m³/hr
Nominal Flow Rate (m³/hr)		25 m³/hr	40 m³/hr	50 m³/hr
Dimensions (mm)	A	954.8	954.8	994
	B	821	828.5	876
	C	220.4	220.4	262.5
	D	153	153	183
	E	289.5	289.5	389.5
Capacity of Underflow Tank (ltr)		8	8	8
Gross Weight (kg)	Empty (kg)	7.580	7.765	10.360
	In Operation (kg)	22.724	23.934	32.00

Hydro-Cyclone Filter



Sr. No.	Part Name
1	Manifold Body (BSP Threaded)
2	Cone Main O-Ring
3	SS Lock Pin
4	Cyclone Cone
5	Nut & Bolt
6	PU bush for tank
7	Rubber Gasket for Tank
8	Collector Tank
9	Collector Tank O-Ring
10	Collector Cap
11	Clamp
12	1" PP Ball vale (FxF)

Header Assembly



Header Assembly PPGF with Throttle Valve Threaded Type



Header Assembly PPGF with Split Type Flange



Header Assembly PPGF with Slip on Flange



Header Assembly PPGF with Split Type Flange

Features:

- Both 1" & 1.5" connections for air vents in a single port.
- Double pressure gauge ports with brass bushes.
- Support for assembly to maintain sturdiness.
- Made of glass reinforced engineering plastic, which is much stronger than polypropylene.
- UV stabilized.
- Corrosion resistant, this is a major problem with metal head units.
- Pressure rating: 8 kg/cm².

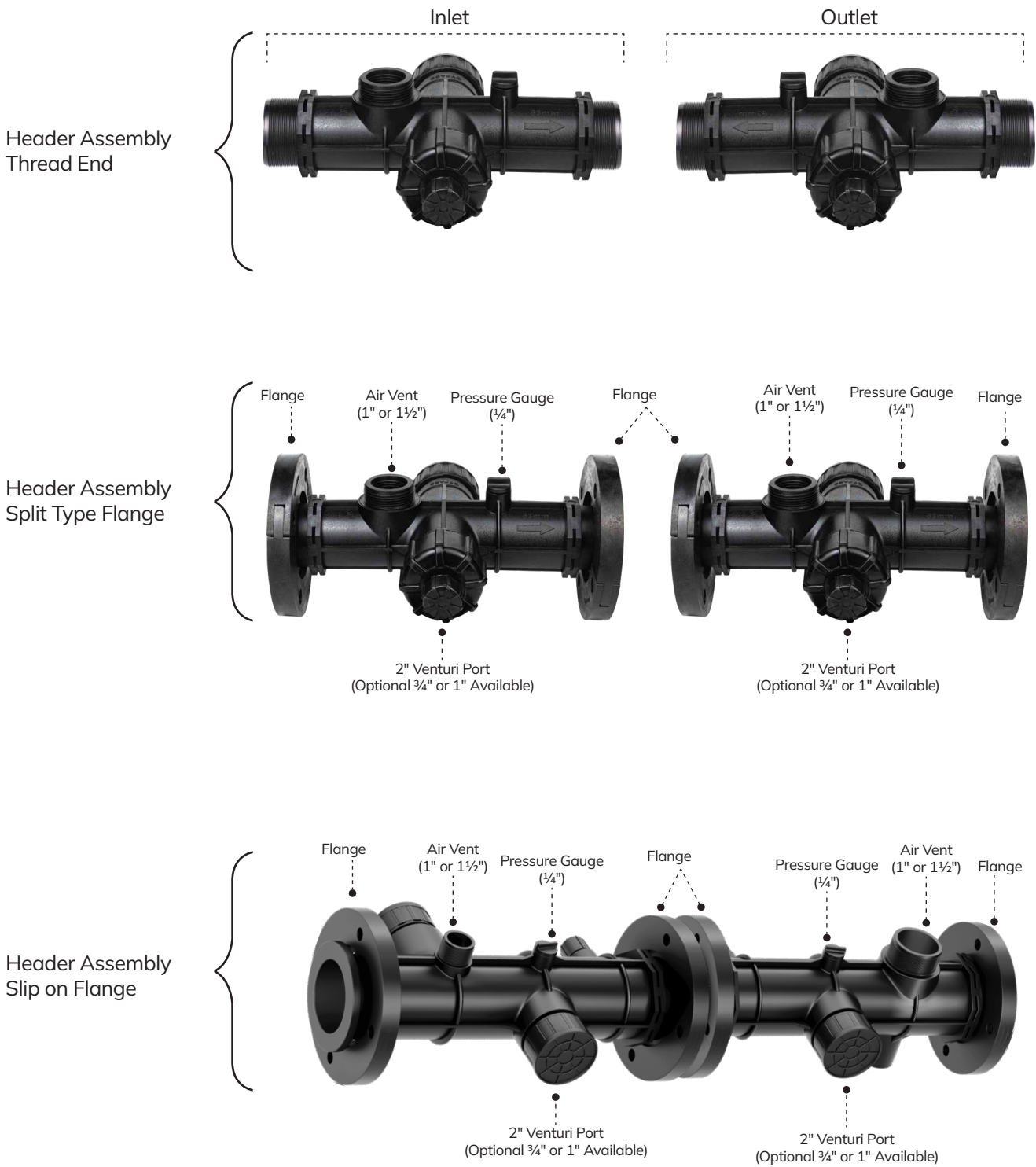
Applications:

- Easy to install venturi/fertilizer tank and control the Injection rate of fertilizer.

Available Sizes:

- 2", 2.5", 3", 4".

Header Assembly



Header Accessories



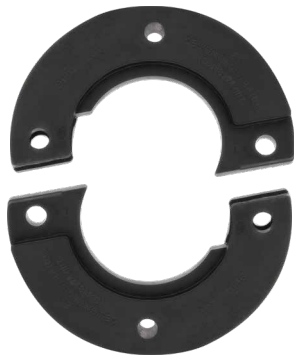
By Pass Tee



Threaded End



Slip on Flange



Split Type Flange

**Design
Registration No.**
318924-001

Available Sizes:

- 2", 2.5" & 3".

Venturi Injector



Sr. No.	Pressure kg/cm ²		Injector Size							
			3/4"		1"		2" (Low Flow)		2" (High Flow)	
	Inlet	Outlet	Motive Flow LPH	Suction Flow LPH	Motive Flow LPH	Suction Flow LPH	Motive Flow LPH	Suction Flow LPH	Motive Flow LPH	Suction Flow LPH
1	0.50	0.00	720	165	2100	265	5500	550	10320	1250
2	0.75	0.00	810	180	2500	272	6200	750	12300	1325
3	1.00	0.00	920	187	2900	290	7800	905	14400	1400
4	1.50	0.00	1140	185	3300	285	10120	995	16800	1450
5	2.00	0.00	1300	183	4100	280	11850	1200	18900	1450

Features:

- Venturi Injectors control or adjust the suction of fertilizer.
- Fertigation is based on the proportionate principle.
- Uniform application of fertilizer.
- In-built check valve for protecting the injected liquid against backflow.
- Saves energy & man power.
- Delivers plant nutrients directly into the crop root zone.
- Can be used with a large variety of chemicals.

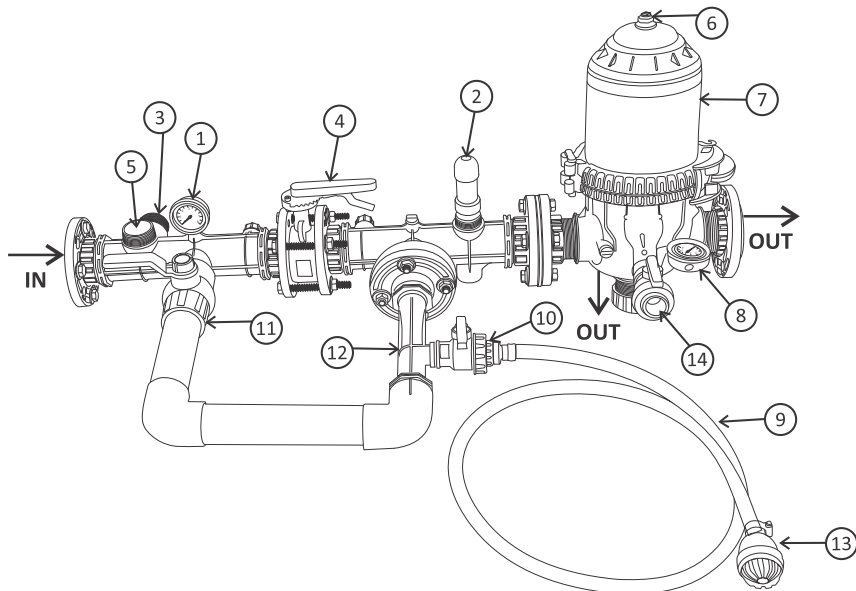
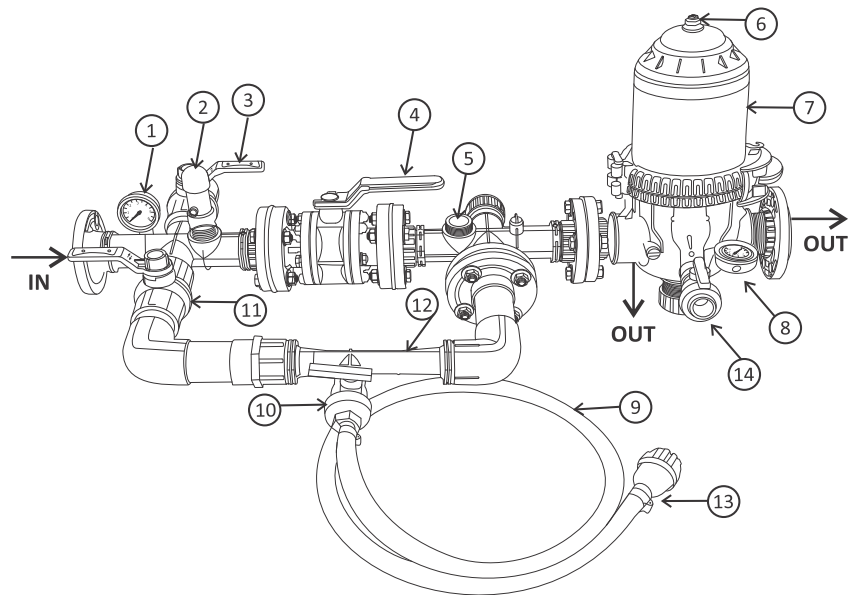
Applications:

- Delivers plant nutrients directly into the wetted zone.

Available Sizes:

- 3/4", 1" & 2".

Venturi Injector



Parts Name:

- 01 - Pressure Gauge
- 02 - Air Release Valve
- 03 - By Pass Valve
- 04 - Control Valve
- 05 - PRV Port
- 06 - Vacuum breaker
- 07 - Filter
- 08 - Pressure Gauge
- 09 - Suction Pipe
- 10 - Suction On/Off Valve
- 11 - Venturi On/Off Valve
- 12 - Venturi Injector
- 13 - Non-Return Valve
- 14 - Flush Valve

Sprinkler Irrigation Systems

Durable sprinklers and precision nozzles for wide and even water distribution. Ideal for covering large areas with consistent performance.



Mini Sprinkler Nozzle - 1/2"



Nozzle size (mm)	Pressure (kg/cm ²)	Flow Rate (LPH)	Wetted DOC (mtr)	Precipitation Rate (mm/hr) Rectangular Spacing (MxM)							
				8x8	8.5x8.5	9x9	9x10	10x10	9x12	10x12	12x12
2.4x1.8	0.7	355	17.0	5.5	4.9	4.4	3.9	3.6	3.3	3.0	2.5
2.4x1.8	1.0	425	18.0	6.6	5.9	5.2	4.7	4.3	3.9	3.5	3.0
2.4x1.8	1.25	475	18.5	7.4	6.6	5.9	5.3	4.8	4.4	4.0	3.3
2.4x1.8	1.5	525	18.5	8.2	7.3	6.5	5.8	5.3	4.9	4.4	3.6
2.4x1.8	2.0	600	19.0	9.4	8.3	7.4	6.7	6.0	5.6	5.0	4.2
2.4x1.8	2.5	675	19.0	10.5	9.3	8.3	7.5	6.8	6.3	5.6	4.7

Features:

- Specially designed nozzles for excellent distribution uniformity of sprinkler even at a low water pressure.
- Bayonet nozzle connection for easy service in field conditions.
- Covers more area (increased diameter of coverage) and improved uniform distribution.
- Rotation starts even at a low pressure of 0.5 bar.
- Corrosion-proof plastic pivot pin prevents wear & tear of the sprinkler.
- Special springs & washers to perform even at a low pressure.
- Graphite bottom washer for smooth and consistent rotation.

Applications:

- Recommended for closely spaced field crops, such as potato, leafy vegetables, cotton, oil seeds, pulses, and fodder crops.
- For irrigation and germination of vegetables, flowers and nursery crops.

Benefits:

- Operates even at a low water pressure of 0.5 kg/cm².
- Uniform distribution of water improves the crop yield.
- Can operate more sprinklers simultaneously, hence covering a larger area in a given time period.
- Saves water, efforts and energy.

Technical Specifications:

- Available in 1/2" male threaded connection.
- Recommended pressure 0.7 - 2.5 bar.
- Recommended spacing up to 10mtr for higher distribution uniformity.
- Trajectory angle: 24°.

Plastic Sprinkler Nozzle - 3/4"



Nozzle (mm)	Pressure (kg/cm ²)	Radius (mtr)	Discharge Rate (LPM)	Precipitation Rate (mm/hr) Spacing (12mtr x 12mtr)
5.15 x 3.17 (Black)	1.0	11.6	23.83	11.3
	2.0	13.2	32.5	13.5
	3.0	14.5	43.33	16.8
4.76 x 3.17 (Grey)	1.0	10.8	22.17	9.3
	2.0	13.0	30.33	11.8
	3.0	14.0	39.17	15.9

Features:

- Available in 3/4" BSP male thread connection.
- Trajectory angle 24°.
- A non-clog stream straightener in the range nozzle ensures excellent performance in wind conditions.
- The nozzles feature a lockable design that aids in cleaning the sprinkler.
- Manufactured from a special grade of high-strength plastic.
- Superior quality of washers and other parts ensures more efficient performance.
- Economically easy to install on a farm.

Applications:

- All crops are compatible with overhead sprinkler irrigation on portable as well as solid set systems.
- Used for agricultural fields for open field application.



Mini Sprinkler - Accessories



Joiner



Tee



Male Threaded Adaptor



Elbow



End Cap

Mini Sprinkler Accessories



Mini Tube Assembly



Tube Lock



Male - Female Connector



Connector

Technical Specification:

Parameters	: Push Type
Connection Sizes	: 32mm OD
Threads	: Threaded BSP
Male Threaded Adaptor	: 32x1"
Straight Coupler	: 32x32
Male Threaded Elbow	: 32x1"
Terminal End cap	: 32xPlug
Tee	: 1"x1"x1"
Tube Assembly	: 1.2 & 1.5mtr
Connector	: 1/2"
Tube Lock	: 1/2"

Features:

- All parts made of UV stabilized engineering plastic.
- Excellent sealing at min/max. pressure.
- Push-fit type fittings suitable for speedy installation.
- Superior slim & strong design provides a leak-proof solution for pipe joining.

Applications:

- Simplest & fastest way to connect irrigation laterals/Pipes.
- No need for fusion welding.

HDPE Fittings & Accessories



HDPE Bend



Foot Bottom



HDPE Tee



Female PCN Connector



End Cap



Flange PCN Connector

Features:

- Manufactured from high-quality virgin pipe grade material.
- Useful for distribution.
- Useful for jointing purposes.

Applications:

- Sprinkler and drip irrigation systems for connecting main and sub main line.
- Suitable for water supply distribution pipelines.
- Can be used for temporary and portable piping systems.

Available Sizes:

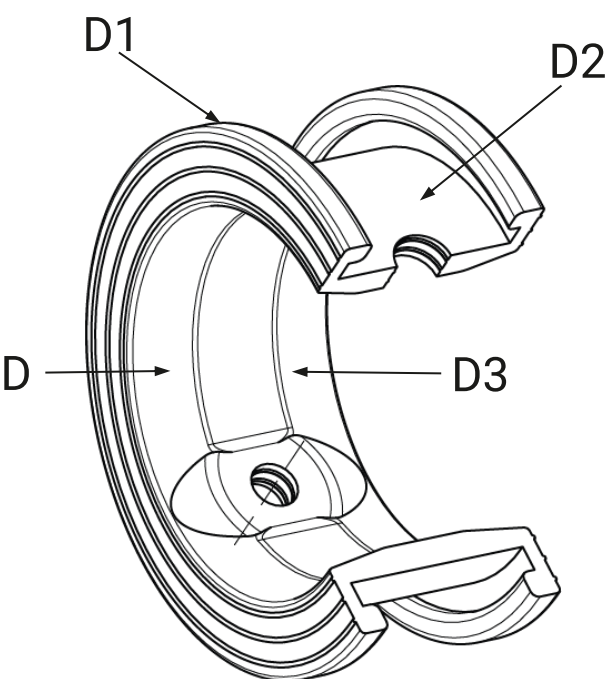
- 50mm, 63mm, 75mm, 90mm, 110mm.

Valves

Designed for accuracy and durability, these valves regulate flow with exceptional precision, helping maintain optimal water pressure throughout the irrigation network. Their rugged construction resists wear, corrosion, and field stress, delivering long-lasting performance even under demanding agricultural conditions.



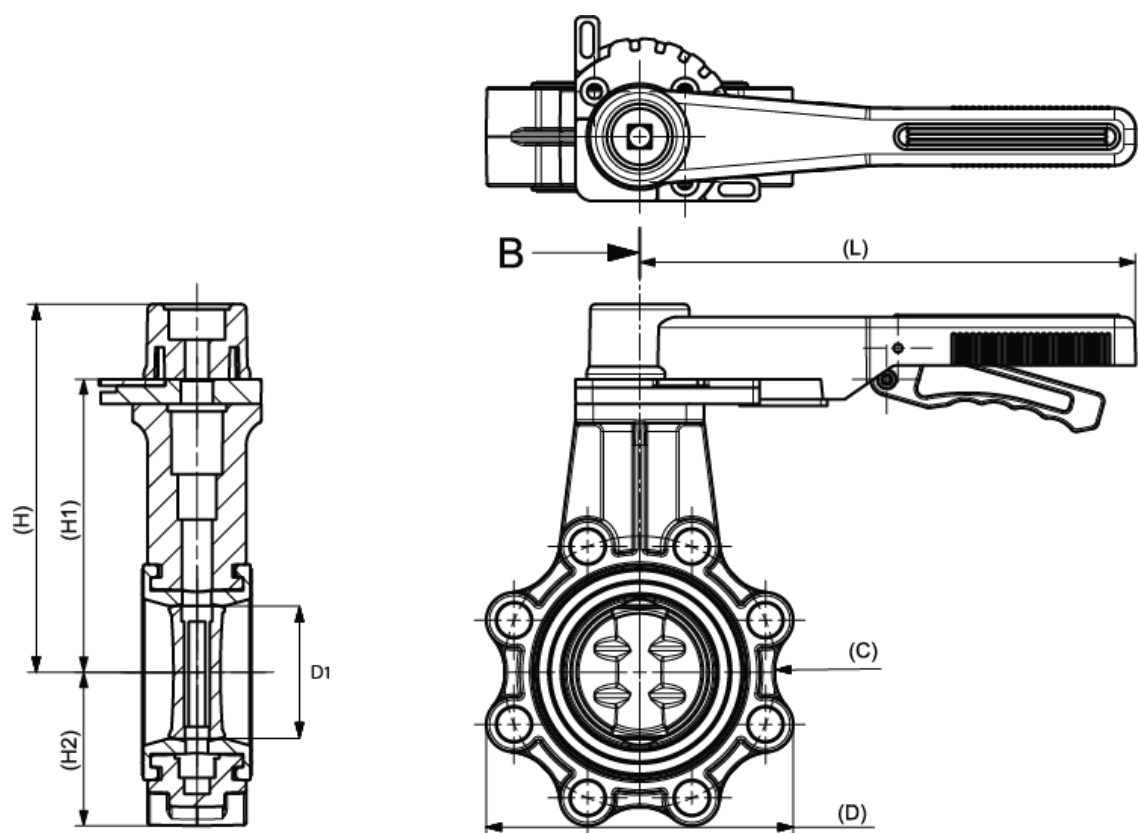
Butterfly Valve



Dimensions
Rubber Sleeve of Butterfly Valve

Dimensions	50mm	65mm	80mm	100mm
D1	90.00	100.5	128	135.30
D2	65.40	76.2	92.5	116.40
D3	50.40	64.5	79.5	103.40

Butterfly Valve



Dimensions	50mm	65mm	80mm	100mm
D	62.70	143.3	164.7	194.30
H	165.00	171.8	179.8	180.00
H1	125.00	136.8	141.8	125.00
H2	55.00	71.7	82.4	110.00
L	23.00	231.3	231.3	235.00
C	100.10	Φ127	Φ148	172.10

Features:

- Lightweight, easy to install.
- One-piece body made of uPVC.
- Disc designed to ensure low torque and low pressure loss.
- Rust prevention is ensured for all main parts, such as the disc and shaft, as well as small parts like bolts and washers, which are made of high-grade stainless steel for superior corrosion resistance.
- Lock plate: Provided with throttling notches at every 15° up to 90° for balancing or shut-off service, the lever can be padlocked in any notch position.
- It has an EPDM rubber seal for good sealing performance.

Applications:

- Ideal application for flow control in a drip irrigation system.
- It is suitable for piping in a limited space.
- It is used as a control valve for a filtration unit.

Available Sizes:

- 2", 2.5", 3" & 4".

PP & PVC Ball Valve



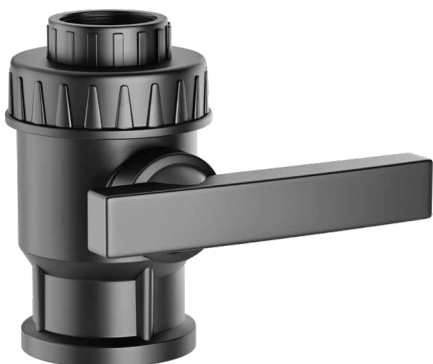
Single Union Ball Valve



Double Union Ball Valve



Throttle Valve



Single Union Ball Valve

Sr. No.	Product	Size Available	Connection Type	Pressure Rating
1	PP / PVC Ball Valve Single Union	1", 1.5", 2", 2.5", 3", 4"	P/P, P/T	PN 10
2	PP / PVC Ball Valve Double Union	2", 2.5", 3", 4"	P/P, T/T	PN 10
3	Throttle Valve	2", 2.5", 3"	T/T	PN 10

Note: P - Plain & T- Threaded

Features:

- Manufactured with high performance rigid PVC compound.
- Excellent chemical & corrosion resistance.
- Low frictional losses.
- Chemical resistant.
- Nitrile rubber o-rings make it leak-proof for a longer period.
- Easy to install and dismantle.
- Available in single and double union connections.
- Maximum working pressure 10kg/cm².

Applications:

- Used to control flow in irrigation & water supply lines.

Air Release Valve



Features:

- Air evacuation (air release): It allows large volumes of air to escape the pipeline quickly during the initial filling process.
- Air Intake (vacuum prevention): It allows large volumes of air to enter the pipeline during draining or in the event of a sudden pressure drop (like a burst pipe) to prevent a vacuum from forming, which can cause pipes to collapse.
- Maximum pressure up to 10kg/cm².

Technical Specifications:

- Air valves are available in plastic.
- Plastic valves available in ½", ¾", 1", and 1½" sizes with male and female threads.

Flush Valve



Features:

- Equipped with a stopper for the cap to prevent snap-out of the cap while flushing, a special provision is made for the cap.
- Large opening provided to take out dirt from the pipeline.
- Threaded facility to open for ease of flushing dirt from the sub main.
- Special 'o' ring provided for leak-proof performance.
- Flush out sediment and debris (like dirt and mineral deposits) that accumulate over time.
- Prevent clogging of the emitters.
- Maintain uniform water flow and efficiency across the entire system.

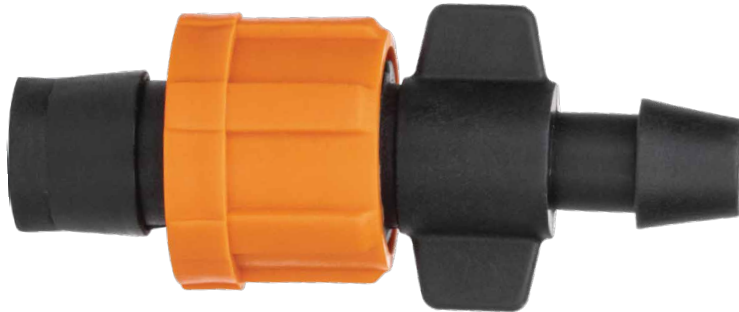
Sizes:

- 40x50mm.
- 63x75mm.
- 90mm.

Applications:

- Suitable for flushing the entire drip irrigation system & water supply line.
- Recommended in micro/drip irrigation as a flush valve to remove the entrapped dirt from the pipeline during flushing.

Twist Type Connector



Twist Type Start Connector - 16mm

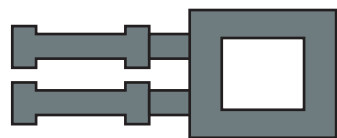


Twist Type End Cap - 16mm



Twist Type Joiner - 16mm

Other Accessories



Packaging Clip (Black)
Packaging Clip (White)



Bundle Side Circle - Regular



Bundle Side Circle - Heavy



Rubber Gasket



Service Saddle

Available Sizes:

Rubber Gasket: 2", 2.5" & 3".

Service Saddle: 63x32mm, 63x25mm, 63x20mm, 75x32mm, 75x25mm, 90x32mm, 90x25mm.



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