

AN ISO 9001:2015 COMPANY

NEXTGEN REVOLUTION  
IN DRIP IRRIGATION



Manufacturer of  
Drip Irrigations Products & Accessories





## Introduction **COMPANY**

The **SATYAM** started its operation in 2011 based at Ahmedabad.

Initially as a small scale unit, it has evolved today as a progressive company.

We at Satyam actively seek every growth opportunity and strive hard to provide the best of **Irrigation** solutions to our various clients.

We believe in the philosophy of delighting our customers by way of providing more than what they expect from us.

## **THE MISSION** Statement

To create our niche in the **Drip Irrigation** Industries.

## **THE VISION** Statement

To acquire the latest skills, know-how and the technology which would help us to serve our customers the best.

## **INFRASTRUCTURE**

Our customers focused approach has guided as to take few strategic decisions and the investment in infrastructure is one of them.

We have a well-developed robust infrastructure in place to produce high quality approved range of **Irrigations** products for our customers.

We have advance tool rooms and our injection moulding division is capable for preparing all types of drip **Irrigation** components.

We have all necessary instruments & equipments, in order to facilitate proper checking and inspection of quality of our products.

## **THE PRODUCTS**

We have prominent name in the industry in supplying different kinds of **Irrigation** moulded components for your requirements.

We are specialized in manufacturing various types of online emitter, Drip **Irrigation** filters, **Irrigation** valve products, drip & mini sprinkler accessories and all kinds of drip **Irrigations** system.

## Our **MOTTO**

At **Satyam**, we believe in retaining our customer and we work to build long-term relationship with them.



### OUR LICENCE



## POLYPROPYLENE FLANGED VALVE

### 3 Piece Flange Ball Valve



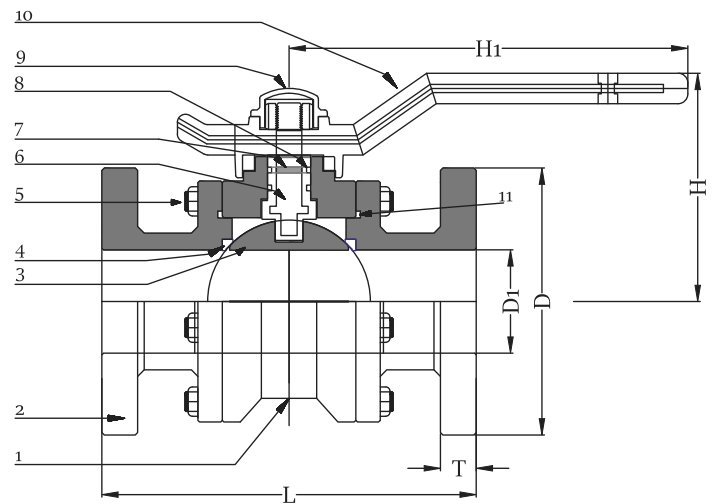
**Size:** 2" / 2½" / 3"

Backed by rich industry experiences, we are highly engaged in manufacturing, exporting and supplying an optimum quality range of Three Piece Flange End Ball Valve. Owing to its accurate dimensions and easy installation features, our offered ball valve is highly demanded among our precious clients. In adherence to the set industry standards, the provided ball valve is well-designed and manufactured by our highly experienced professionals. Furthermore, our clients can avail this ball valve from us at industry leading prices.

- Features:**
- Fine finish
  - Precisely designed
  - Accurate dimensions

#### Specification of Materials

No.	Description	Material	Qty.
1	Body	Polypropylene	1
2	Flange End	Polypropylene	2
3	Ball	P.P. Compound	1
4	Seat Ring	PTFE	2
5	Stud & Nut	M.S. Zink plated / S.S. 304 / S.S. 316	Req.
6	Stem Seal Ring	PTFE	1
7	Stem	P.P. Reinforced with M.S.	1
8	Stem 'O' Ring	Neoprene	1
9	Handle Hex Pin	S.S. 304	1
10	Handle	P.P. Reinforced with M.S.	1
11	Body Seal Ring	Neoprene / PTFE	2



Valve Size	Flange Diameter (D)	D1	Length (L) Face to Face	T	Height Centre (H)
2"	165	50.0	205	21	117.5
2½"	185	63.0	235	26	147
3"	200	75.0	250	26	162

**Note:** (All Dimensions are in mm)(± 2mm)

### DUAL FILTER



**Size:** 2.5" & 3"

**Material:** PPCP

#### Features & Applications :

- Robust design & corrosion resistant.
- Disc housing fan generates hydro cyclonic effect that reduces cleaning frequency.
- Grooved disc design provides high filtration efficiency.
- Uniform distribution of flow into filter housing optimizes filtration process.
- Filter designed for pressure rating PN8 (8 bar)
- Suitable for all commonly used drinking water source, fertilizers and acids.
- Suitable for sea and brackish water, high and low PH.
- Polypropylene housing – excellent chemical resistance.

## FILTER



**DISC ELEMENT**

**SCREEN ELEMENT**

In order to cater to the variegated demands of our precious clients, we have come up with a wide range of quality assured Screen Filter & Disc Filter. This Filter is widely used in irrigation systems for primary filtration purposes. Offered Filter is exclusively designed and manufactured under the guidance of our highly experienced professionals using the best quality raw material and modern technology. Owing to its durability and easy installation features, our provided Irrigation Filter is highly demanded among our precious clients.

**SIZE:** 2" / 2.5" / 3"

### FEATURES:

- The filters are made from special chemically bonded polymer which are weather resistant.
- Filters are manufactured out of specialized plastic, which is tailor made for this product.
- Various sizes are available as per requirement.
- Easy to install & Clean.
- Screen filter cartridges are made of Stainless Steel which are corrosion resistant.
- Disc Filters are made with special Helix system which gives better performance & results.
- All parts easily available as per customer requirement.
- We have provided with tail piece flange for flange connection.

MODEL	SI IPL-230 (2") SI IPLSF-230 (2")	SI IPL-2540 (2½") SI IPLSF-2540 (2½")	SI IPL-350 (3") SI IPLSF-350 (3")
Nominal working pressure	2 kg/cm <sup>2</sup>	2 kg/cm <sup>2</sup>	2 kg/cm <sup>2</sup>
Maximum working pressure	6 kg/cm <sup>2</sup>	6 kg/cm <sup>2</sup>	6 kg/cm <sup>2</sup>
Nominal flow-rate	30m <sup>3</sup> /hr (500 ltr/min)	40m <sup>3</sup> /hr (667 ltr/min)	50m <sup>3</sup> /hr(834 ltr/min)
Range of flow-rate	24 to 40 (m <sup>3</sup> /hr)	32 to 48 (m <sup>3</sup> /hr)	40to 60 (m <sup>3</sup> /hr)
Filtration surface	1300 cm <sup>2</sup>	1300 cm <sup>2</sup>	1750 cm <sup>2</sup>
Max clean pressure drop	0.5 kg / cm <sup>2</sup>	0.5 kg / cm <sup>2</sup>	0.5 kg / cm <sup>2</sup>
Size of aperture	100 Mesh	100 Mesh	100 Mesh

## FILTER 3D ASSEMBLED VIEW



PART No.	DESCRIPTION
1	Housing
1.2	Flush Cock
1.3	Nut
2	Lid
2.1	Lid 'O' Ring
2.2	End Cap
3	Disc Element
3.2	Element Top Locking Plate
4	Tail Piece Flange
5	Pressure Check Point
6	Port Closing Cap
6.1	Closing Cap 'O' Ring
7	Clamp
8	Thread Screw

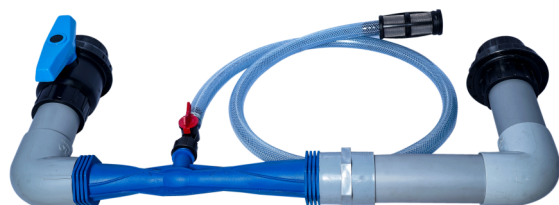
### CLEANING INSTRUCTION:-

- Cleaning of the water must be done when pressure differential across 0.5 kg/cm<sup>2</sup>.
- Install the strainer in the main line after sand filter vertically / horizontally. Inlet should be on top side & outlet at the top. Provide proper support to ensure it does not vibrate due to water pressure.
- Ensure ball valve is fitted before inlet of strainer.
- Follow closing instructions as at 'd' above.
- To start the flow opens the flush valve gradually and slowly.
- Ensure recommended pressure at inlet and slowly.
- Filter element should be cleaned regularly on time by opening flush and closing outlet.
- Clean element taking it out flush valve and closing outlet.
- Clean element taking it out under water tenderly & periodically.
- Water soluble fertilizer and pesticides should be given through Ventury. Strong chemical should not be poured into filter directly as it will affect filter element.

## VENTURI INJECTOR



IS : 14483  
CM/L NO. 7200204894



IS : 14483  
CM/L NO. 7200204894

**Size:** 3/4", 1", 2"

### FEATURES:

- Minimum Working Pressure.
  - Venturi Injectors Controlled / Adjustable Suction of Fertilizer.
  - Made from Specially in Hi Quality Engineering Materials
  - Fertigation Is Based On Proportionate Principle.
  - Uniform Application of Fertilizer.
  - In-Built Check Valve for Protecting the Injected Liquid Against Back Flow.
  - Can Be Used with A Large Variety of Chemicals.
  - Saves Energy & Man Power.
  - Delivers Plant Nutrients Directly into The Crop Root Zone.
- Highly Efficient and Compact Differential Pressure Injection Device.

Sr No.	Pressure (Kg./cm <sup>2</sup> )	Pressure (Kg./cm <sup>2</sup> )	Motive flow liter/hr	Water Suction liter/hr
	Inlet	Outlet		
1	1	0.5	11175	726
2	1.5	1	12920	400
3	2	1.5	15350	351
4	2.5	2	16465	265
5	3	2.5	17900	197

**Note:** ± 10% Variation

## ONLINE EMITTER



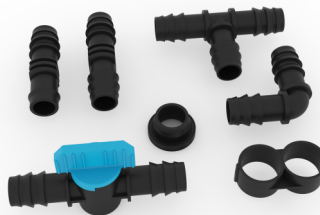
IS : 13487  
CM/L NO. 720017394

**Size:** 8 LPH

- 2-Piece Dropper With Rubber Sheet.
- UV Stabilized
- Material: PPCP
- ISI and GGRC Approved.

## POLY FITTINGS

**Size:** 16 mm



- TEE
- ELBOW
- ENDCAP
- JOINER
- TAKEOFF
- LATERAL COCK
- GROUMMET

## AIR RELEASE VALVE



**Size:** 3/4" / 1"

### Features:

- Male Thread.
- Continuous Acting Air Release / Vacuum Relief Valve.
- Min. Operating Pressure: 0.35 Kg/Cm<sup>2</sup>
- Operating Pressure: 0.35-10 Kg/Cm<sup>2</sup>
- Threaded Elbow Outlet.

## SPRINKLER PUSH FITTING



**Size:** 32mm

**Material:** PPCP

- Push Fit Elbow
- Push Fit Joiner
- Push Fit End Cap
- Push Fit MTA
- Outside Threaded Tee
- It prevents the problems which may arise due to size difference upto 0.5 in the pipes ovality, easy to assemble and seal.

### Applications :

- Mini Sprinkler System
- Drip Irrigation
- Landscape Irrigation

## SERVICE SADDLE



**Size:** 63mm, 75mm, 90mm

**Material:** PPCP

### Features:

- High durability
- Sturdy Construction
- Zinc Plated Bolts
- Gasket and Bolts grip system
- use in sprinkler Irrigation System

## SINGLE UNION PP BALL VALVE



**Size:** 32 mm

### Features:

- Union type ball valve is manufactured from PPCP, highly resistant to various conditions.
- Union Type ball valve is specially suited for Drip Irrigation System.
- Easy manageable with union ends for installation and removal.
- Union type ball Valve contains no metal parts, failure due to corrosion eliminated.
- Excellent flow characteristics.
- Proper care taken for full strength and leakage proof manufacturing design.
- Hydraulically tested at 6 kg/cm<sup>2</sup>

## HEX NIPPLE



**Size:** 25mm

**Material:** PPCP

### Features:

- Available with standard BSP Male Threads
- Manufactured from tough engineering plastic
- Non Corrosive & resistant to chemicals
- UV resistant fittings
- Used to connect two threaded pots together

## Single & Double Union Ball Valve



**Size:** 2" / 2½" / 3"

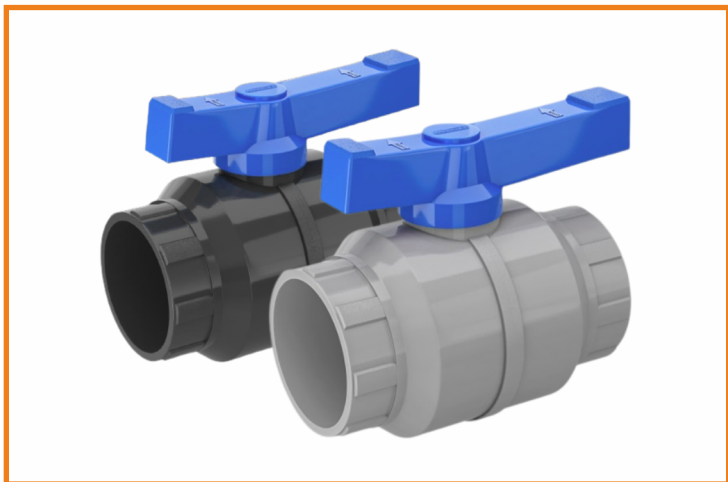
**Material :** PPCP

End Connection : Threaded / Solvent Socket

**Features :**

- Smooth and leakage-proof performance
- Strong & durable
- its union design facilitates easy installation and maintenance
- Colour UV Stabilized
- Ideal for Drip & Mini Sprinkler systems
- Maximum Operating Pressure 6 kg/cm<sup>2</sup>

## SOLID SEAL BALL VALVE



**Size:** 1½" / 2" / 2½" / 3"

**Type:** Short & Long Handle

- Features:**
- Solid body molded design.
  - Manufactured from high grade high quality PPCP, material.
  - Excellent corrosion and chemical resistance.
  - One piece rugged body eliminates joints / union / gaskets and consequently eliminate leakage.
  - Available in threaded and socket end connections.
  - Hydraulically tested at 10kg/cm<sup>2</sup>
  - Maximum working temperature 80° C.

**Application:** For flow control in Horticulture and agriculture irrigation.



No.	Description	Material	Qty.
1	Stem	PPCP	1
2	Ball	PPCP	1
3	Body	PPCP	1
4	Stem 'O' Ring	Nitrile	1
5	Cap	PPCP	1
6	Handle	PPCP	1
7	Seat Ring	PU Compound	2

## TOP ENTRY BALL VALVE



**Size:** 2", 2.5"

### Technical Data:

- Construction : Single Piece Body
- Design : Top Entry
- Type : Screwed / Plain end
- Max working Temp.: 90° C
- Gasket / Stem seal : Nitrile
- Test Pressure : 10 kg / Cm<sup>2</sup>

### Features:

- One Piece Top Entry Ball valve is manufactured from polypropylene, a chemically inert thermoplastic.
- One Piece Top Entry Ball valve is specially suited for Drip Irrigation System.
- One-piece rugged body eliminates joints / unions / Gaskets / Fasteners and consequently eliminates leakage and corrosion.
- Since this ball valve contains no metal parts, failure due to corrosion eliminated.
- Carbon black and UV stabilizers resist ultraviolet rays and prevent degradation of PPCP in sun light exposure.
- Proper care taken for full strength and leakage proof manufacturing design.
- Every piece is tested before dispatch.
- Hydraulically tested at 10kg. / cm<sup>2</sup>.
- Approved and used by many known Drip Irrigation manufacturers.

### Application :

- With a top entry ball valve, sprinkler system and irrigation system control becomes easy.
- These high-quality ball valves can be used to create a manual shutoff any where in your irrigation system.
- That's ideal for emergency situations as well as for routine maintenance, repair or renovation procedures.

## SLIP ON FLANGE



**Size:** 2" / 2½" / 3"

### Features:

- **Material:** PP GLASS
- **Color:** Black
- **Chemical Resistant:** Good Resistance to Strong acids except highly active oxidizers, such as nitric acid. It also has excellent resistance to weak and strong alkalies and to most organic solvents.

## TAIL PIECE FLANGE



**Size:** 2" / 2½" / 3" & 4"

## THREADED FLANGE

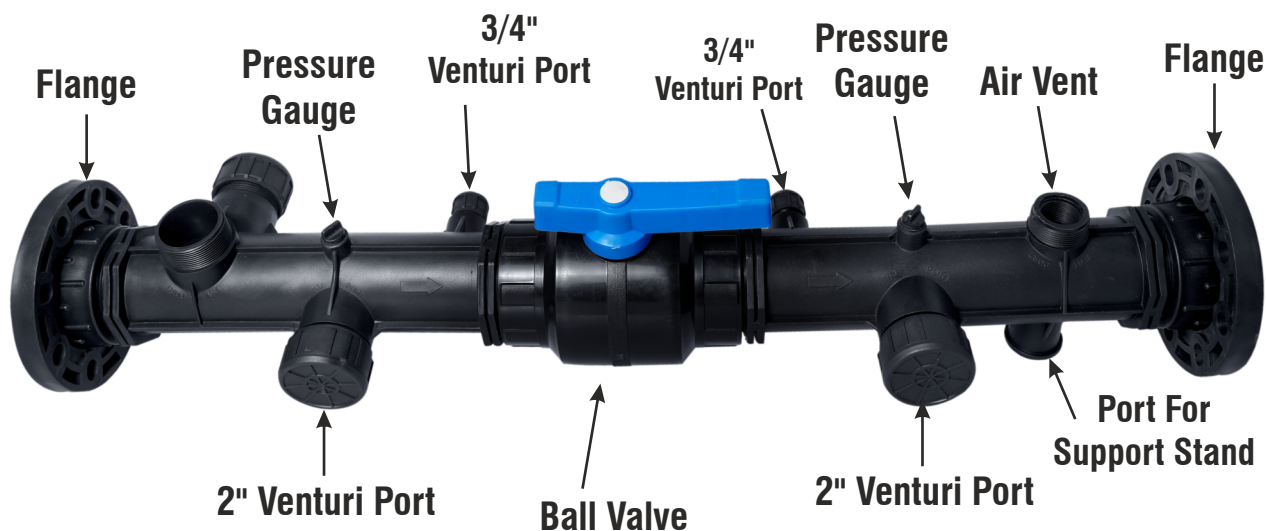


**Size:** 2" / 2½" / 3"

### Features:

- **Material:** PPCP
- **Color:** Black
- **Chemical Resistant:** Good Resistance to Strong acids except highly active oxidizers, such as nitric acid. It also has excellent resistance to weak and strong alkalies and to most organic solvents.

## FERTIGATIONMANIFOLD



Head units available in 2" / 2½" / 3" Sizes with multiple combinations including Flanged Ball Valve, Solid Seal Ball Valve and Butterfly Valves. Made of Glass Reinforced Engineering Plastic Materials which is Stronger than PP

## HEADER ASSEMBLY



**Size:** 2" / 2½" / 3"

### Features:

- Both 1" & 1½" threaded connection for air vents in single port.
- Double Pressure gauge ports with brass bushes.
- Support for assembly to maintain sturdiness.
- Made of Galss reinforced engineering plastic which is much stronger than PP.
- UV Stabilized
- Corrosion resistant which is a major problem with metal Head Units.

## FLANGED TEE



**Size:** 2" / 2½" / 3"

**Material:** PPCP

### Features:

- Specially Designed joint Less
- Leak Proof and easy instolation
- Protective from corrosive chemicals
- Resistance to most of chemicals and fertilizer
- Low cost compared to metal
- Use in Irrigation System
- Max. Operating Pressure : 10 Bar / 145 Psi
- Color UV Stablized

## FLUSH VALVE



**Size:** 50 mm, 63mm, 75mm

### Material Specification:

Top Cover : PPCP  
Body : Abs/Pvc  
Screw : SS216  
'O' Ring : Nitrile

### Features :

- Easy to ON/OFF
- Special 'O' Ring
- Equipped with stopper for cap
- Large opening for Dirt Removal

### Application :

- 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 pipe line during flushing.

## VACUUM BRAKER



**Size:** 1/2" / 3/4" Male Thread

### Features :

- Designed to protect enclosed tanks from collapse or structural damage during draining.
- Body & Float Materials : Nylon

## SLIP UNION



**Size:** 2" / 2 1/2" / 3"





 **Satyam**

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