



Bonding to **GROW**...





# Company Profile

## Company Profile

The Raj group has evolved as an organization in a last one and a half decade. The group started its operations in 1993 as Raj plastics Ind. Then, it dealt with control valve and soon created goodwill for itself by way of producing better performing products. In the span of just couple of years the group was ready for expansion, as it was encouraged by tremendous response from the market.

In the year 1995 the group started its second unit namely Raj Polymers dealing in Irrigation valve. Since last decade or so, the group has launched a range of valves for irrigation and also polyfitting, Emitters inline & online.

The group (Raj Plastics Ind.& Raj Polymers) to its credit has registered itself with various Indian drip irrigation companies as well as MNCs. Strategic diversification and risk taking ability of the promoters have ensured that the group is remain focused and committed on the growth path.

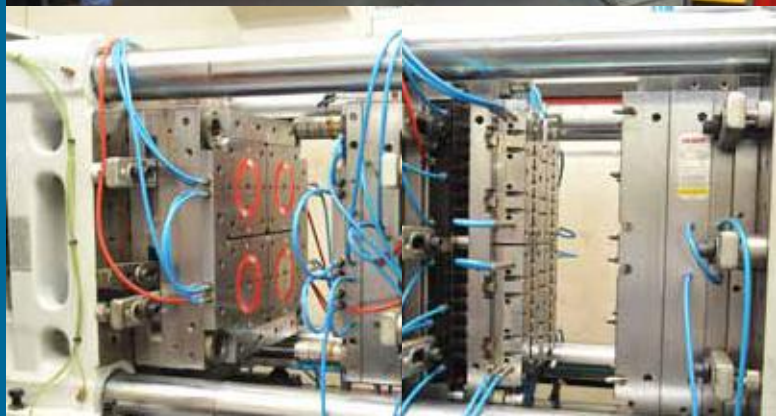
## The Quality Policy

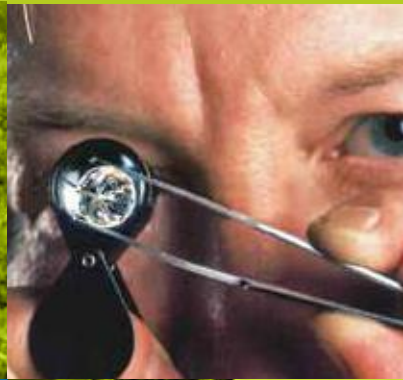
We are committed

To design and manufacture products with unmatched performance and quality that exceeds the industry standards.

To invest in the technology that would help us create better products

To provide better solutions for upgrading the water management system





## The Vision Statement

To be one of the dominant global player in the drip irrigation industry.

To be able to equip ourselves well, so that we can cater to the diverse and complex demands of our esteemed customers well.



## Research & Development

Research & Development is a key focus area at Raj Group. We understand that in order to be amongst the prominent players in this industry our R&D facilities should need to be updated regularly.

We have acquired expertise of developing Sprinkler Accessories and Plastic Filters as per the needs and wants of our customers. And we undertake these customized jobs as and when we are asked to deliver. This has given us a definite edge in the market.





# Filters



Disc Element



Screen Element

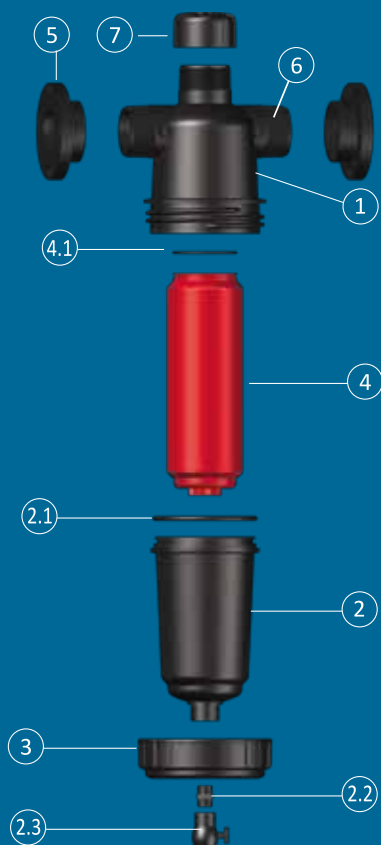


## Features

- Easy to install and maintain, no tools required for rising.
- Excellent mechanical strength, corrosion resistance.
- Wide range of flow rate.
- All parts easily available as per customer requirement.
- We have provided with tail piece flange for flange connection.

## Technical Specification

MODEL	RPI - 30 ( 2") RPI-SC-30 (2")	RPI - 40 (2.5") RPI-SC-40 (2.5")	RPI - 50 (3") RPI-SC-50 (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	30 m <sup>3</sup> /hr (500 ltr/min.)	40 m <sup>3</sup> /hr (667 ltr/min)	50 m <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)	40 to 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>

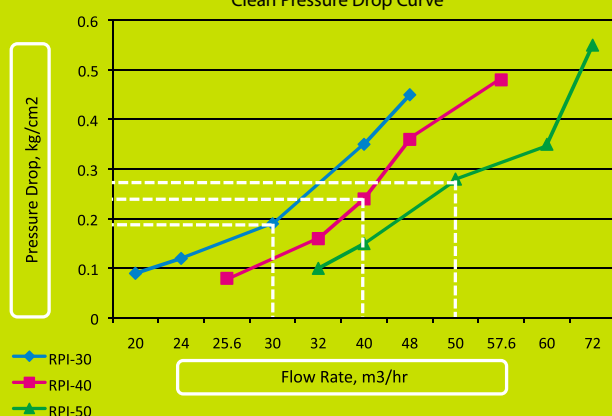


Part No.	Description
1	Housing
2	Lid
2.1	Lid 'O' Ring
2.2	Connector
2.3	Flush Valve 3/4"
3	Tightening Nut
4	Discs Element
4.1	Element 'O' Ring
5	Tail Pipe Flange
6	Pressure Check Point
7	Port Closing Cap

\* Filter Parts easily available as per Customer requirement.

### Performance Graph

Clean Pressure Drop Curve



Tail Pipe Flange

### CLEANING INSTRUCTION

- Cleaning of the water must be done when pressure differential across 0.5 kg/cm².
- 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.



Flush Cocks

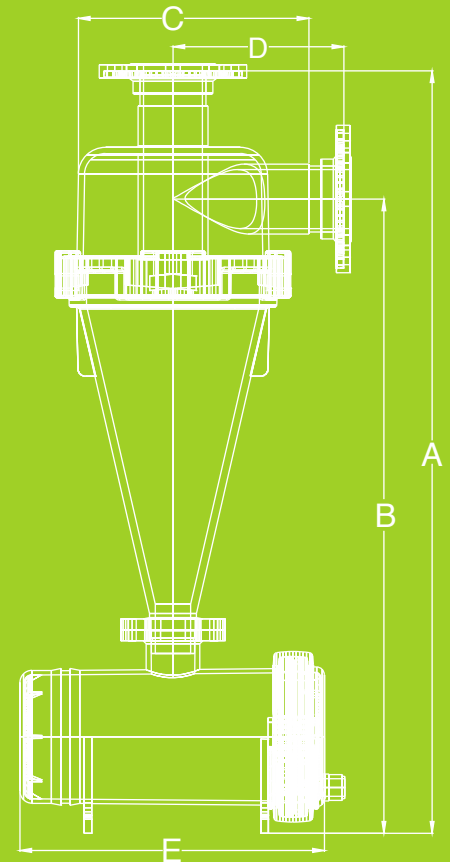
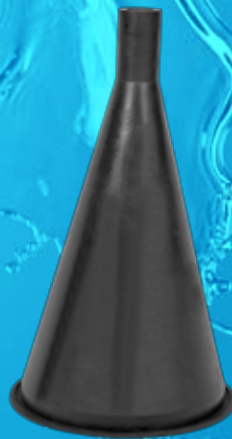


Vacuum Breaker

# Hydrocyclone



Rubber Cone

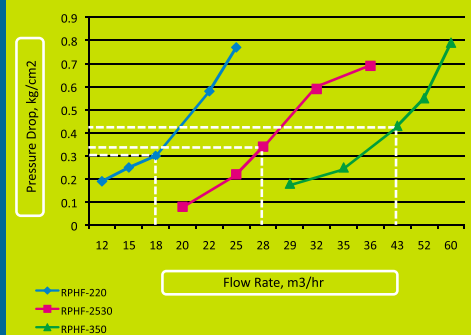


## FEATURES

- Body made of reinforced engineering plastic for durability.
- Hydro Dynamically Designed To Create Maximum Centrifugal Action.
- Dirt Can Be Easily Flushed out Through Drain port.
- Collector Chamber Can Be Easily Cleaned By Opening Collector Cover.
- Clamp Easily Open/Close From Collector Chamber.
- Easy to Installation and Low Maintenance.
- Stand for Height Increase.
- Specially designed high wear Resistant Rubber Cone in the Bottom Avoid wear Due to Strong sand Vortex.

## Performance Graph

Clean Pressure Drop Curve



Model No.	Inlet / Outlet (Inch / mm)	Range of Flow Rate, (m3/hr)	Nominal Flow Rate (m3/hr)	Dimensions (mm)					Capacity of Underflow Chamber (liter)	Gross weight
				A	B	C	D	E		
RPHF-220	2" / 50	15 - 22	18	904	766	207	158	418	8	7.6 kg.
RPHF-2530	2 ½" / 63	25 - 32	28	904	766	207	158	418	8	7.8 kg.
RPHF-350	3" / 75	35 - 52	43	978	817	244	220	418	8	9.5 kg.

# Ventury (Fertilizer Injector)



## Main Features:

- Operated by existing water pressure
- No Moving Parts
- Fast and simple operation
- Adaptable to all irrigation systems
- High quality materials resistance to chemicals used in agriculture.
- Made from specially in Hi quality engineering materials
- All fertilizer & chemicals resistance
- Low pressure operating
- Easy installations

Serial No.	Pressure (Kg. / cm <sup>2</sup> )		Motive Flow Litre / hr.	Water Suction Litre / hr.
	Inlet	Outlet		
1	0.75	0.25	14740	1005
2	1.00	0.25	16030	1320
3	1.50	0.25	18468	1940
4	2.00	0.25	23320	2599
5	2.50	0.15	24600	2784
6	3.00	0.00	24624	2763

\*  $\pm$  10% Variation



## P.P. Header



Size : 2" | 2½" | 3"

## P.P. Flanged Elbow



Size : 2" | 2½" | 3"

### Main Features

Our Product are manufactured from poly-propylene a chemically inert thermoplastic by exclusive moulding process.

Specially Designed Joint Less

Leack proof and easy instolation,

Protective from corrosive chemicals.

Resistance to most of chemicals and Fertilizer.

Can be used up to 90 °C.Temprature.

Hydraulically/Pneumatically tested upto 200 lbs/sq. inch (10 kg/cm<sup>2</sup>)

Low cost compared to metal.

### Application

Irrigation System

Horticulture & agriculture

## P.P. Flanged Tee



Size : 2" | 2½" | 3"



# Polypropylene Flanged Valve

## The Products

We work for the long-term relationship with our customers and farmers. We cater to their needs and customized our solutions accordingly. This approach and service standards have cemented our relationship with them and we have won their loyalty.

Size M.M.	Flange Diameter 'D' M.M.	Flange Thickness 'T' M.M.	Face to Face M.M.
15	94	16	124
25	118	18	148
40	139	20	172
50	164	21	198
65	179	24	223
80	200	26	240
100	230	30	299

Notes : P.C.D. and No. of Holes : As Per Your Requirement

# Single Pice Threded & Plain Valve



Size : 2" to 4"



Size : 1" to 3"



Size : 2" to 4"

# PolypropyleneThreded Valve

• Body	Poly propylene
• Ball	P.P.R.
• Seal	Ring Teflon
• Packing Washer	PTFE
• Stem Seal Ring	Teflon with 'O' Ring
• Handle	M.S. P. P. Coated
• Studs	M.S. P.P. Coated
• Hex, Nut, Washers	M.S. With P.P. Cover

# Products

## Raj Plastic Industries.

### Main Features

Our Valves are manufactured from poly-propylene a chemically inert thermoplastic by exclusive moulding process.

Straight flow without pressure drop.

Easy opening & closing by quarter turn.

Protective from corrosive chemicals.

Resistance to most of chemicals.

Can be used up to 90 °C. Temperature.

Hydraulically/Pneumatically tested upto 200 lbs/sq. inch (10 kg/cm<sup>2</sup>)

Low cost compared to metal valves.

Poly-propylene parts are designed and moulded with a very special technique valve body itself with stand as irrigation & Agricultural. Which ensures the safety of the fluid passing through, hence our valves are sturdy.

### Application

Farms

Green house,

Irrigation System

Horticulture & agriculture

### Union Type Valve Plain & Threded



Size : 1 1/4" to 3"

### Solid Seal Valve Plain & Threded



Size : 1/2" to 6"



## Inline Emitter (Dripper)

16mm/4 LPH, 16mm/2 LPH

12mm/4 LPH, 12mm/2 LPH

Dripper Manufacturer for Hitech Mold and Hitech Machine



## Poly Fittings



Air Release  
Valve (Air Valve)

## Flush Valve



Size : 40mm. to 75mm.



## Bob Cock for Pressure Gauge Saffty



## Vacuum Breaker





# Sprinkler Accessories - 32 MM



Valve



Tee



Elbow



MTA



Service Saddle



Joiner



Endcap



## Assembled View

- 1 Bypass Tee
- 2 Hydrocyclon Filter
- 3 Ventury (Fertilizer Injector)
- 4 Air Valve
- 5 Header
- 6 Ball Valve
- 7 Pressure Gauge
- 8 Filter (Disc | Screen)
- 9 Elbow



\* Due to continuous improvements in the product design, specification of the products is subject to change without any prior notice.





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