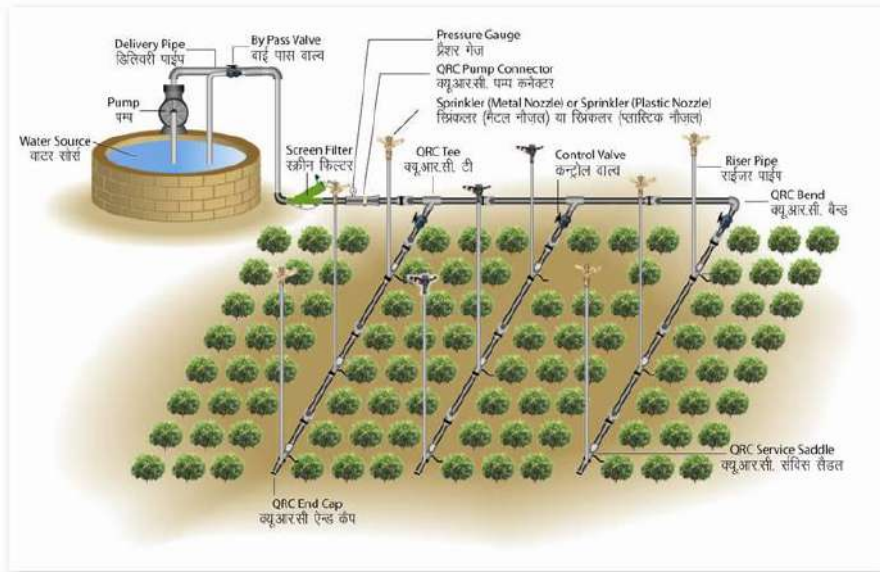




# MICRO IRRIGATION SYSTEM & ACCESSORIES



GREENHOUSE | AGRI EQUIPMENT | MANURE & GROW MEDIA | NURSERY SUPPLIES | **IRRIGATION** | HYDROPONICS



Layout of Sprinkler Irrigation System (छिड़काव सिंचाई प्रणाली का रेखाचित्र)



**ADVANTAGES OF MICRO IRRIGATION**

1. Suitable for all types of field condition (except heavy clay soil).
2. Uniform distribution of water with high efficiency.
3. Less land loss provides more land area for cultivation.
4. Loss of water is minimum.
5. Accurate and easy measurement of distributed water.
6. Soluble fertilizers, herbicides and fungicides can be added in water before distributing to the crops.
7. Reduces labour cost.
8. Easy to operate.



**Butterfly Sprinkler**

Overhead Irrigation of Close Spacing Crops like Ginger, Onion, Potato, and Other Tubular Crops. Suitable for crops that require more water. Widely Spaced Crops and Medicinal Plants.

- 1/2" Male Threaded Connection.
- Flow Range: 250 LPH to 560 LPH.
- Nozzle and Body made of Engineering Plastic.
- Operating Pressure Range: 1Kg/cm to 2 Kg/cm<sup>2</sup>.
- Recommended Spacing: 4x4, 5x5, and 6x6 mtr.
- Robust Structure to withstand adverse weather conditions.
- Self-Rotating Bridge for excellent uniformity and leaves no dry patches on the field.



**Impulse Sprinkler**

Overhead Irrigation of Close Spacing Crops like Ginger, Onion, Potato, and Other Tubular Crops. Suitable for crops that require more water. Widely Spaced Crops and Medicinal Plants.

- Plastic nozzles for better spray of water.
- Stainless Steel Pin & Spring.
- Excellent CDU Even In High Wind Conditions.
- Designed To Ensure No Damage To Crop.
- Also available with Bayonet type Brass Nozzle.
- Pressure : 1.5 to 3 Kg
- Range : 14 to 18 Mtr



**Wobbling Sprinkler**

Overhead Irrigation of Close Spacing Crops like Ginger, Onion, Potato, and Other Tubular Crops. Suitable for crops that require more water. Widely Spaced Crops and Medicinal Plants.

- Available in 3/4" BSP Male Threaded connection.
- Operating pressure range of 0.75kg/cm<sup>2</sup> to 2kg/cm<sup>2</sup>.
- Constructed with High Grade Engineering Plastic for durability.
- UV Stabilized and resistant to organic and inorganic chemicals commonly used in farming.
- Continuous rotation of the body ensures no dry patches.
- Provides excellent uniformity in water distribution even at low pressure.
- Counterbalance feature reduces vibrations for a smooth and



**Mini Butterfly Sprinkler**

Best for Irrigation of Close Spacing Crops like Ginger, Onion, Potato, and Other Tubular Crops. Suitable for crops that require more water. Widely Spaced Crops and Medicinal

- Gentle water sprinkling , no damage to flowers / plants.
- Detachable nozzle and spinner.
- Uniform distribution.
- Connection : 6mm or 12mm pipe inlet.
- Radius of coverage **10 Feet**.
- Wide flow range, **90-120 Litre Per Hour(LPH)** at operating pressure of 1kg/cm<sup>2</sup> (14.22 psi)



Micro Sprinkler

- Sprinkler made of high quality Engineering polymers to achieve wear resistance and longer trouble free performance.
- Uniform distribution.
- There are two Patterns : Threaded type and Pin type.
- Connection : ½" male threaded inlet and 6mm pipe.
- The extra Hanging option is build in the sprinkler.
- Radius of coverage 15 Feet.
- Wide flow range, **Threaded: 200 Litre Per Hour(LPH)** at operating pressure of 1kg/cm<sup>2</sup>.
- **6mm : 60 Litre Per Hour(LPH)** at operating pressure of 1kg/cm<sup>2</sup>.
- Easy to install with different mounting options.



Micro Sprinkler

- Wonderful Sprinkler for Irrigation in orchards, vegetables and gardens. Irrigation in greenhouses and shade houses. Cooling of poultry and livestock.
- Radius of coverage **12 Feet**.
- Small, medium or large droplets produced by different sprayers.
- Wide flow range, **120- 240 Litre Per Hour(LPH)** at operating pressure of 1kg/cm<sup>2</sup> (14.22 psi)
- **Connection: ½" male threaded inlet.**



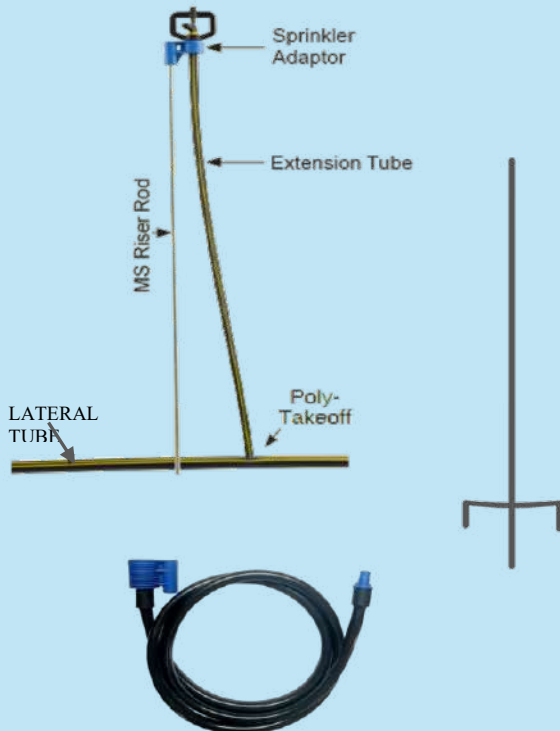
Mini Sprinkler

- Sprinkler made of high quality Engineering polymers to achieve wear resistance and longer trouble free performance.
- Smooth streamlined side ribs to secure the spinner and give minimum obstruction to water jet.
- Gentle precipitation, no damage to flowers / plants.
- Detachable nozzle and spinner.
- Uniform distribution.
- Radius of coverage **15 Feet**.
- Wide flow range, **90 -180 Litre Per Hour(LPH)** at operating pressure of 1kg/cm<sup>2</sup> (14.22 psi)
- **Connection : 3/8" BSP threaded inlet.** Easy to install with different mounting options.



Mini Sprinkler

- Sprinkler made of high quality Engineering polymers to achieve wear resistance and longer trouble free performance.
- Colour coded nozzle for different flow rates.
- Gentle precipitation, no damage to flowers / plants.
- Detachable nozzle and spinner.
- Uniform distribution.
- **Connection: 5mm Pipe inlet.**
- Radius of coverage **6 Feet**.
- Wide flow range, **90-120 Litre Per Hour(LPH)** at operating pressure of 1kg/cm<sup>2</sup> (14.22 psi)



HDPE PIPES & FITTINGS



Adapter



Pump Connecting  
Nipple

- Product Name : Sprinkler Pipe (Quick Coupled Pipe)
- Size (Dia): 63mm, 75mm, 90mm, 110mm, 125mm & 140mm
- Length : 6 mtr Length for each pipe  
Standard : ISO 9001 : 2015
- Type : Regular, Notch and "C" clamp Coupler in fusion and butt welding
- Applications : Sprinkler and drip irrigation systems for main and sub main line



Ball Valve



"L" Coupler



Tee Coupler



End Cap



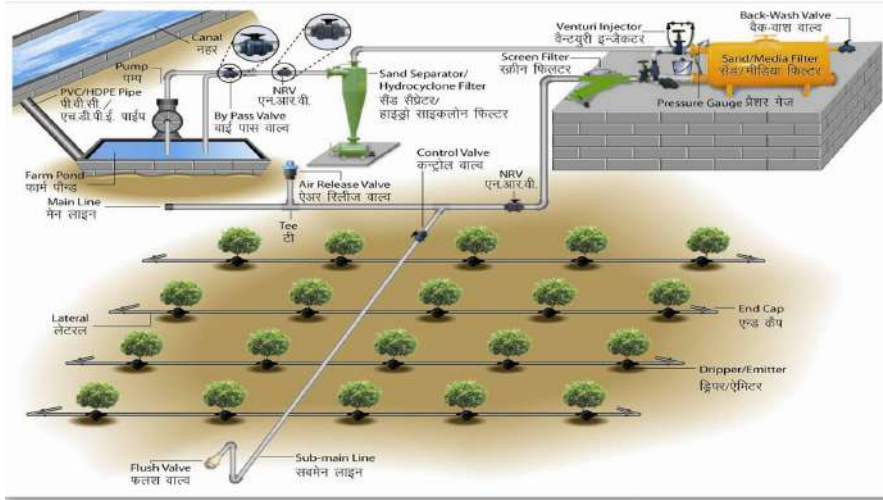
This highly efficient Rain Gun can rotate either in a full circle or a partial circle. It operates at a medium pressure range of 2.0 – 6 atm. The sprinkler features replaceable ends and an adjustable water breaker, ensuring uniform water distribution across your field. It's suitable for dust control at roadsides, mines, construction sites, and coal depots.

The main body and scoop are made of aluminium, while the lower rotating mechanism is constructed from brass, Teflon, and stainless steel. The system is equipped to accommodate both a standard stationary breaker and a licensed moving breaker. The moving breaker disperses water without hindering its reach over long distances. The breaker's settings can be adjusted to control the degree of water dispersion.

Additionally, the sprinkler comes with a standard blind plug, allowing you to block the second hole for short-distance irrigation, thereby conserving water.

#### SPECIFICATIONS

- Aluminium body, Brass Spindle.
- High Performance Full & Part Circle Impact Sprinkler.
- Standard Nozzles: 12 mm – 14mm – 16mm – 18mm – 20mm – 22mm.
- Inlet Size: 2" & 2.5" Female Thread as per model, Body Angle: 28°.
- Radius: 22 meters – 45 meters.
- Discharge: 195 LPM – 850 LPM.



**Layout of Drip Irrigation System (ड्रिप सिंचाई पद्धति का रेखाचित्र)**



**DRIP TAPE**  
Available Spacing : 30cm, 40cm & 60 cm

SIZE/OD	WALL THICKNESS	MIL	COIL LENGTH
12MM	0.65MM	25	400MTR
16MM	0.75	30	400 MTR



**DRIP TUBE**  
Available Spacing : 30cm, 40cm & 60 cm

SIZE/OD	WALL THICKNESS	MIL	COIL LENGTH
12MM	0.65MM	25	400MTR
16MM	0.75	30	400 MTR
20MM	0.95	38	400 MTR

SIZE/OD	WALL THICKNESS	CLASS	COIL LENGTH
12MM	0.60 - 0.80MM	1	400MTR
12MM	0.90 - 1.10MM	2	400MTR
16MM	0.80 - 1.00 MM	1	400 MTR
16MM	1.10 - 1.30 MM	2	400MTR
20MM	0.90- 1.10MM	1	400MTR
20MM	1.20 -1.40MM	2	400MTR
25MM	1.20 - 1.60MM	1	300MTR
25MM	1.70 - 2.00MM	2	300MTR
32MM	1.50 - 1.90MM	1	300MTR
32MM	2.00 - 2.40MM	2	300MTR





MICRO TUBE  
SIZE/ OD : 4mm, 6MM



Infiltration into root irrigation  
for better absorption



ARROW DRIPPER  
2LPH, 4LPH &



DRIPPER  
2LPH, 4LPH & 8LPH



ADJUSTABLE DRIPPER  
0-70 LPH



CONNECTING "TEE"  
SIZES : 12MM, 16MM,



PC DRIPPER



GROMETT  
SIZES : 12MM, 16MM,



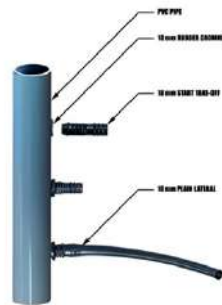
J-LOCK EMITTER



START TAKE-OFF CONNECTOR  
SIZES : 12MM, 16MM, 20MM



"L-BOW"  
SIZES : 12MM, 16MM,



Installation of PVC  
Grommet and Take-off



STRAIGHT CONNECTOR  
SIZES : 12MM, 16MM,





**STRAIGHT CONNECTOR**  
SIZE : 5MM,  
BARBED & PLAIN



**END CAP**  
SIZES : 12MM, 16MM,  
20MM

**TAKE-OFF VALVE**  
SIZES : 12MM, 16MM,



**START TAKE-OFF CONNECTOR**



**DRIP TAPE RING CONNECTORS**



**STRAIGHT CONNECTOR**  
SIZES : 12MM, 16MM



**CONNECTING "TEE"**  
SIZES : 12MM, 16MM



**END CAP**  
SIZES : 12MM, 16MM



**START TAKE-OFF CONNECTOR**



**"L-BOW"**  
SIZES : 12MM, 16MM



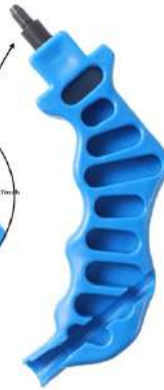
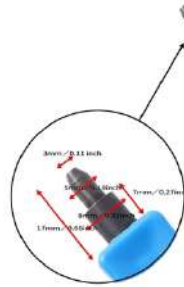
**IRRIGATION COMPRESSION FITTINGS**



**FARM SERVICE KIT**



HOLE PUNCHING TOOLS



DRIP  
TUBE

DRIP LINE STAKE  
GALVANIZED STEEL

DRIP LINE  
STAKE PLASTIC

FILTER DRAIN  
SPANNER



DRIP LINE  
LOCK TIE

U.V POLY  
WIRE

GALVANIZED STEEL  
WIRE

WIRE  
TENSIONER



DRIP LINE SUPPORT  
CLIP

DRIP LINE RATCHET  
CLIP

CLOSED  
GROMMET

DRIP LINE  
DUMMY STOPPER

**FOUR WAY MISTING  
FOGGER**



**Features**

- Specially designed Anti-Drip device instantly prevents dripping after each irrigation cycle.
- Anti-drip device activates when pressure exceeds 1.5kg/cm<sup>2</sup>, allowing the fogger to open.
- Anti-drip device shuts down and fogger stops operating when water pressure falls below 0.7kg/cm<sup>2</sup>.
- Bridgeless design eliminates dripping issues.
- Uniform distribution of droplets with an average size of 65 microns at nominal pressure.
- Acid resistant raw material enables the application of commonly used agricultural chemicals.
- The system can be cleaned using suitable acid treatment.

**Specification**

- Recommended working pressure: 4.0kg/cm<sup>2</sup>.
- Recommended filtration: 120 mesh (130 micron).
- Press fit type inlet connector.
- Pressure range: 2.5kg/cm<sup>2</sup> to 5kg/cm<sup>2</sup>.
- Average droplet size of 65 micron at recommended pressure of 4kg/cm<sup>2</sup>.

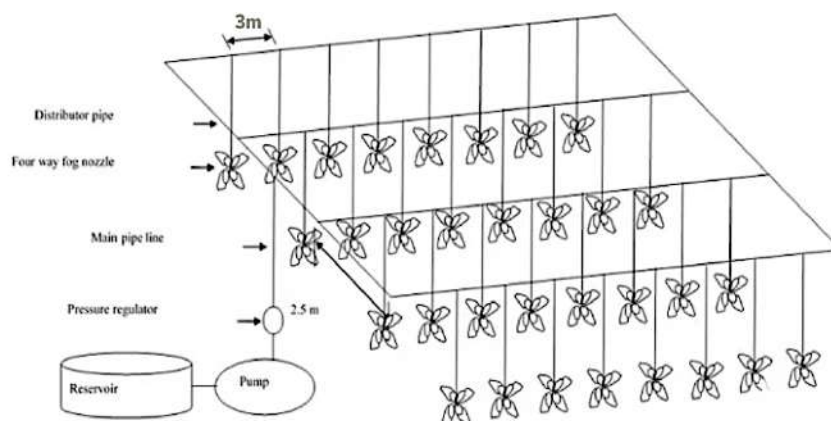
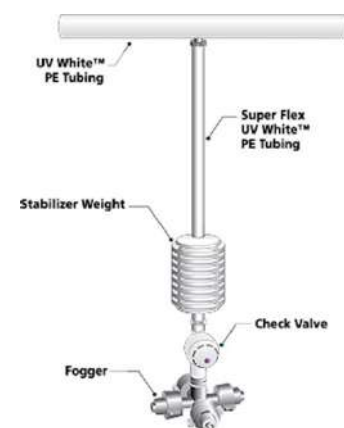
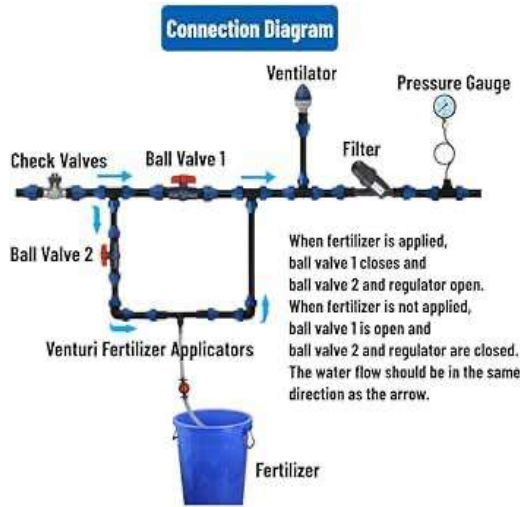


Fig. 3: Schematic of a fogging system





**FERTILIZER INJECTOR VENTURI**



**HYDROCYCLONE FILTER (METAL BODY)**



- Body made of heavy duty Metal for long life
- Efficiently removes fine sand and silt particles of size higher than 75 microns and specific gravity more than 2.65.
- Dirt can be easily flushed out through dirt collection chamber.
- SIZE:: 2"-, 2.5" , 3"

**HYDROCYCLONE FILTER (PLASTIC BODY)**



- Body made of special chemically bonded polymer for durability.
- Efficiently removes fine sand and silt particles of size higher than 75 microns and specific gravity more than 2.65.
- Dirt can be easily flushed out through dirt collection chamber.
- SIZE:: 2"-, 2.5" , 3"

**SAND FILTER (METAL BODY)**



- High quality silica crushed sand is used as a filtration media.
- Vertical shape provides more depth and degree of filtration.
- Wide space available for dirt collection which minimizes frequency of backflushing.
- Various options of backwash available like manual, semi-automatic or fully automatic backwash.
- High filtration efficiency due to uniform grade of silica.
- Sand having size 1 mm to 2 mm for fine filtration
- Available Size :2" , 2.5" , 3" , 4"

**SCREEN FILTER (PLASTIC BODY)**



- The filters are made from special chemically bonded polymer which are weather resistant.
- Clamp made out of reinforced polypropylene with plated steel for durability.
- Provided with specially designed vacuum breaker valve to avoid vacuum formation.
- Specially designed long handle for easy clamp opening.
- Low maintenance & long lasting with low pressure drop.
- Bigger port for water drainage.
- Available Size :3/4" , 1" , 1.5" , 2" , 2.5" , 3" , 4"

**DISC FILTER (PLASTIC BODY)**



- Disc filters are made with special helix system which gives better performance & results.
- Bigger drain port with 3/4" ball valve for quick drainage.
- Disc filter design for outside to inside flow.
- High filtration efficiency.
- Sizes : 2" , 2.5" , 3"

**SCREEN FILTER (PLASTIC BODY)**



- Made of High Quality Plastic.
- Specially Designed for small farms and terrace gardens
- Long Life Durability
- Available Size :16MM

**PVC BALL VALVE (Single Union) With Regular Handle**



- Specially designed re-enforced handle with metal inserted
- It Prevents breakages of handle in rough handling by farmers
- Pressure Rating : PN-16 Available Size : 1/2", 2", 2 1/2", 3"

**PP BALL VALVE (Both Side Threaded)**



- Both Side Threaded
- Long Handle to Smooth Movement
- Specially Design for Agricultural Usage
- Long Life Durability
- Available Size : 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"

**PVC BALL VALVE (Double Union) With Long Handle**



- Specially designed re-inforced handle with metal inserted
- It Prevents breakages of handle in rough handling by farmers
- Pressure Rating : PN-16 Available Size : 1/2", 2", 2 1/2", 3"

**PP BALL VALVE (Both Side Threaded)**



- Both Side Threaded
- Long Handle to Smooth Movement
- Specially Design for Agricultural Usage
- Long Life Durability
- Available Size : 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3"

**NON-RETURN VALVE**



- Made of high quality polymers for long life
- Available Size : 1/2", 2", 2 1/2", 3"
- Resistant to water soluble Fertilizers and pesticides

**AIR RELEASE VALVE**



- Available in 2" BSPT Thread Connection
- Made of Durable, weather resistant polymers.
- Minimum Sealing pressure: 5 psi
- Working Pressure 5 -224 psi
- Threaded Elbow Outlet

**Pressure Relief Valve (Plastic Body)**



- Heavy-duty Plastic Construction
- Faster response in case of excess pressure surge than the set pressure
- Pressure release setting from 1.5kg/cm2 to 5.5kg/cm2
- Cracking pressure range 0.5kg/cm2 to 1.5kg/cm2
- Electro-plated tempered spring, shaft, and nuts for longer life and consistent performance
- Factory standard set pressure 4.25kg/cm2

**FLUSH VALVE**



- Easily openable threaded top for Flushing debris
- Equipped with 'O' Ring for leak proof performance
- Resistant to water soluble Fertilizers and pesticides
- Maximum operating pressure 5kg
- Available 40x50mm, 50x63mm and 63 x75mm sizes

**Pressure Relief Valve (Aluminum Body)**



- Heavy-duty aluminium casting construction
- Faster response in case of excess pressure surge than the set pressure
- Pressure release setting from 1.5kg/cm2 to 5.5kg/cm2
- Cracking pressure range 0.5kg/cm2 to 1.5kg/cm2
- Electro-plated tempered spring, shaft, and nuts for longer life and consistent performance
- Factory standard set pressure 4.25kg/cm2

**SOLENOID VALVE**



- Heavy Duty, Corrosion and UV Resistant PVC Construction – Increases the life of the valve.
- Manual External Bleed Screw – Provides for manual operation in system start-up.
- Manual Internal Bleed through Solenoid – Provides for manual operation without discharging water outside the valve.
- Available power 24 Volt AC & DC, 220 Volt AC
- Available sizes 1", 1-1/2", 2"

**Pressure Gauge**



- Accurate pressure monitoring
- Long Life
- Capacity 0-300psi

**SOLENOID VALVE (BRASS)**



- Heavy Duty, Corrosion free Brass Construction – Increases the life of the valve.
- Automatic operation
- Available power 24 Volt AC & DC, 220 Volt AC
- Available sizes 1", 1-1/2", 2"



Available in 24volt DC & AC Output options  
Input 220 Volts



### Wi-Fi Smart Irrigation controller

Transforms your Irrigation into a  
intelligent Automation system



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In the  
**GARDEN**  
& Farms with Blustal