

# Oasis Irrigation Equipment Co Ltd.

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## **Basic Components of Drip Irrigation**

### **1. SCREEN FILTER.**

Strainer Type for secondary filtration to be installed after Media Filter. Available with Stainless Steel Mesh of various sizes. Mild Steel Body duly powder coated. Male threaded inlet / outlet connection. Available in flow rate 5 M<sup>3</sup> to 40 M<sup>3</sup>/hr.

### **2. SAND FILTER**

For primary filtration if water is received from River, Reservoir, Dam, Open Channel or Well etc. contaminated with organic impurities and algae etc.

Mild Steel Body duly powder coated. Male threaded / Flanged inlet / outlet connection. Available in flow rate 10 m<sup>3</sup> to 40 m<sup>3</sup>/hr

### **3. HYDRO CYCLONE FILTER**

For separating sand particles or silt from River/Well water. Available with collecting tank. Mild Steel Body duly powder coated Male threaded inlet/outlet connection. Available in flow rate 20 m<sup>3</sup> & 40m<sup>3</sup> / hr.

### **4. FERTILIZER TANK**

For injecting water soluble fertilizer in the irrigation system to be connected parallel to delivery line before Screen Filter. Vertical Designed Mild Steel Body duly powder coated. Male threaded inlet/outlet. Available in 75 & 150 ltrs/hr. discharge.

### **5. VENTURY**

For injecting soluble liquid fertilizer and Water Treatment Chemicals used in irrigation system. Operating on a principle that a drop in pressure between inlet and outlet is followed by a change in velocity of water as it passes through constriction the reduced pressure in the constriction creates vacuum inside the body and consequently suction takes place. Made from Engineering Plastic.

### **6. BALL VALVE**

Manually operated Ball Valve available in plain and threaded end in different sizes. Made of PVC. Leak Proof Operation.

### **7. LATERAL**

Used for carrying the water from sub main to field and to accommodate Emitters etc. Available in 12 & 16 mm outer dia. made of Linear Low Density Polyethylene.

### **8. EMITTER**

Turbulent flow path, Clog Resistance, Easily openable, Made of Engineering Plastic. Suitable for connecting Micro Tube. Working pressure 0.6 to 1.2 Bar. Available in 2, 4 & 8 LPH discharges. Suitable for fixed irrigation installation.

#### **9. TAKE OFF-GROMMET**

Used for connecting Lateral to sub main line. It is leak proof.

#### **10. MAIN & SUBMAIN LINE**

Generally it is of PVC Pipe. The diameter of Pipe is selected basing on quantity of water to be passed through the pipe. Mostly Drip \system does not need high pressure/low pressure PVC Pipe to serve the purpose. Fittings such as Bend, Tee etc are required as per site condition.

#### **11. DRIP TAPE**

Made of LLDPE, Unique Clog resistance design ,available in different Wall thickness. Outlets at 30, 60, 90 Cmtr. Apart. Suitable for close planted row crops. Economical. Can easily be rolled for storing after use.

#### **12. JET SPRAYERS**

Non-clogging. Static Sprayers. No moving part, available in 360° & 180°. Made of Engineering Plastic, Pressure rating 0.6 to 1.5 Bar. Throw diameter- 4 mtr. @ 1.5 Bar, suitable for micro tube connection.

#### **13. LOW RANGE MICRO SPRINKLER**

Available with single or two way Spinner. Changeable Nozzles with different orifice sizes. Male Threaded connection. Throw diameter 4.5 mtr at 1.5 bar.

#### **14. MEDIUM RANGE MINI SPRINKLER.**

Suitable for medium range coverage. Even water distribution. Easy assembly and disassembly. Spinners for different application. Available from 40 to 250 LPH. Operating pressure 0.8 to 2 bar.

#### **15. FOGGER.**

Available in 2 models – 2 Ways & 4 Ways. Drop let size 80-100 Micron, Emission rate 7 LPH per Nozzle at 4 bar. Operating Pressure 3.5 to 5 Bar. Fitted with Integral anti- drip device. Easy maintenance. Made from special Engineering Plastic.

#### **16. MISTER**

Suitable for Poly Green House / Shed Net House for propagation of Seed. Non clogging. Static Nozzle. No moving part. Working Pressure 0.6 to 1.8 Bar. Throw diameter 1.5 mtrs. at 1.8 Bar. Suitable for Micro Tube Connection.