

*Creating a Green World*

**AQua**

Product Catalogue | 2019



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# New Products Overview



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# Sprinklers

## ½" Sprinklers



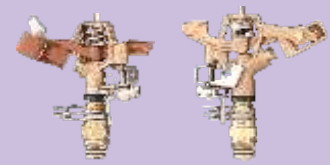
### AQ-5LA7 / AQ-5LA15 / AQ-5N25

- Available in ½" BSP/NPT Male Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs and Pivot Pin
- AQ-5LA7 - Low Trajectory Angle 7°
- AQ-5LA15 - Low Trajectory Angle 15°
- AQ-5N25 - Normal Trajectory Angle 25°



### AQ-5WLA7 / AQ-5WN23

- Available in ½" BSP/NPT Male Thread Connection
- Wedge Drive Sprinkler
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs and Pivot Pin
- AQ-5WLA7 - Low Trajectory Angle 7°
- AQ-5WN23 - Low Trajectory Angle 23°



### AQ-05PC

- Available in ½" BSP/NPT Male Thread Connection
- Bronze Body & Zamac pressure die casted arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Trip Mechanism
- Both Part Circle & Full Circle operations possible
- Part Circle Operation ranging from 20° to 340°
- Trajectory Angle 25°



### AQ-22

- Available in ½" Male Thread Connection
- Color coded nozzles for easy identification of size
- Body, Arm, Bearing & Nozzles made of Delrin for durability
- Specially designed Bayonet nozzles
- Stainless Steel Springs & Pivot Pin
- Trajectory Angle 24°



### AQ-22LA / 22LAW

- Available in ½" Male Thread Connection
- Color coded nozzles for easy identification of size
- Body, Arm, Bearing & Nozzles made of engineering plastic (Delrin) for durability
- Specially designed Bayonet Nozzles
- Stainless Steel Springs & Pivot Pin
- Trajectory Angle available in 9°, 12° & 14°



### AQ-22PC

- Available in ½" Male Thread Connection
- Body, Arm, Bearing & Nozzles made of engineering plastic (Delrin) for durability
- Specially designed Bayonet nozzles
- Stainless Steel Springs & Pivot Pin
- Both Part/Full Circle operations possible
- Part Circle Operation ranging from 15° to 345°
- Trajectory Angle 25°

## ¾" Sprinklers



### AQ-20 / AQ-20CS

- Available in ¾" BSP/NPT Male Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs & Pivot Pin
- Trajectory Angle 27°
- Available in low Trajectory Angle 10° also (For better coverage in wind conditions)



### AQ-20AF

- Available in ¾" BSP/NPT Male Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs & Pivot Pin
- Cap made of LLDPE for durability
- Anti frost model
- Trajectory Angle 27°



### AQ-20PC

- Available in ¾" BSP/NPT Male Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs & Pivot Pin
- Both Part Circle & Full Circle operations possible
- Part Circle Operation ranging from 20° to 340°
- Trajectory Angle 25°



### AQ-25

- Available in ¾" BSP/NPT Male Thread Connection
- Also available with Female Thread Connection AQ-25F
- High pressure model
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs & Pivot Pin
- Trajectory Angle 33°



### AQ-46 & AQ-46B

- Available in ¾" BSP/NPT Male/Female Thread Connection
- Body, Arm, Bearing & Nozzles made of engineering plastic (Delrin) for durability
- Also available with Brass Nozzles.
- Stainless Steel Springs & Pivot Pin
- Trajectory Angle 23°



### AQ-46PC

- Available in ¾" BSP/NPT Male Thread Connection
- Body, Arm & Bearing made of engineering plastic (Delrin) for durability
- Nozzles available in Brass / engineering plastic (Delrin)
- Stainless Steel Springs & Pivot Pin
- Both Part Circle & Full Circle operations possible
- Part Circle Operation ranging from 30° to 330°
- Trajectory Angle 23°

# Sprinklers

## Special Sprinklers



### AQ-5DN

- Available in ½" BSP Male Thread Connection.
- Brass Body & Arm.
- Brass Bearing Sleeve & Nipple.
- Stainless Steel Spring & Pivot Pin



### AQ-20 CSB

- ¾" NPT male threaded.
- Heavy duty Brass Nut, Tube & nozzle.
- Recommended Pressure : 1.0 - 3.0 kg/cm<sup>2</sup> or 15 - 45Psi
- Recommended spacing up to 12m for higher distribution uniformity.
- Trajectory Angle: 27°



New

### AQ - 20 (Hybrid)

- ¾" BSP/NPT male threaded inlet connection.
- low pressure application.
- Heavy duty Brass Nut, Tube & nozzle for long life.
- Plastic Arm with 2nos. Press fitted plated weight for good impact,
- balancing & avoid wind effect.
- Trajectory Angle: 24°

## 1" - 1¼" Sprinklers



### AQ-30

- Available in 1" BSP/NPT Female Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Pivot Pin & Springs
- Trajectory Angle : 27°
- Low angle (18°) model also available.



### AQ30P

- Available in 1" BSP/NPT Female Thread Connection
- Body, Arm & Bottom Bearing made of engineering plastic (Delrin) for durability
- Brass Nozzles
- Stainless Steel Spring & Pivot Pin
- Trajectory Angle 25°



### AQ-30B

- Available in 1" BSP/NPT Male Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs & Pivot Pin
- Trajectory Angle 23°



### AQ-30BPC

- Available in 1" BSP/NPT Male Thread Connection
- Bronze Body & Arm
- Brass Bearing Sleeve & Nipple
- Stainless Steel Springs & Pivot Pin
- Both Part Circle & Full Circle operations possible
- Part Circle Operation ranging from 20° to 340°
- Trajectory Angle 23°



### AQ-40B

- Available in 1¼" BSP/NPT Male Thread Connection
- Low Angle 18° model also available
- Bronze Body and Arm
- Brass Bearing Sleeve and Nipple
- Stainless Steel Springs and Pivot Pin
- Trajectory Angle 23°



### AQ-40BPC

- Available in 1¼" BSP/NPT Male Thread Connection
- Low Angle 18° model also available (For Pivot ends)
- Bronze Body and Arm
- Brass Bearing Sleeve and Nipple
- Stainless Steel Springs and Pivot Pin
- Part Circle Operation ranging from 20° to 340°
- Trajectory Angle 23°

## Rain Guns & Tri Pod Stand



### AQ-40G

- Available in 1¼" BSP/NPT Female Thread Connection
- Both Part Circle & Full Circle adjustments
- Adjustable Jet breaker to provide uniform distribution
- Equipped with 3 interchangeable nozzles of different sizes for various applications
- Trajectory Angle 30°



### AQ-42G

- Available in 1½" BSP/NPT Female Thread Connection
- Both Part Circle & Full Circle adjustments
- Adjustable Jet breaker to provide uniform distribution
- Equipped with 3 interchangeable nozzles of different sizes for various applications
- Trajectory Angle 23°



Available for 1¼" & 1½" Guns

# Micro Sprinklers

Aquatuff



## Features & Specifications

- Pushfit / Quickfit connector
- Sturdy Structure and User Friendly
- Insect proof Pop-up Swivel
- Range of operating Pressure: 1.5 - 2.5kg/cm<sup>2</sup>
- Flow Rate Range: 30 - 324 LPH
- Recommended Spacing: 4x4m & 5x5m

---

## Aquamic

Range Rotor



## Features & Specifications

- Bayonet connection
- 2 different swivels
- 8 Color - Coded nozzles for flow rates from 24- 320 LPH
- Excellent Distribution uniformity ranging from spacing: 3x3, 3.5x3.5, 4x4, 4.5x 4.5 & 5 x 5m

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## Aquamic

Mist Sprayer



## Features & Specifications

- Bayonet connection
- Mist static swivel in Black Color
- 6 Color - Coded nozzles for flow rates from 24- 198 LPH
- Excellent Distribution uniformity ranging from spacing: 1.5m X 1.5m & 2m X 2m

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## Aquamic Excel



## Features & Specifications

- Installed in the ground on stake or hang it by wire.
- Available Connection: Both Barbed & 3/8" male thread type connections.
- Excellent distribution uniformity.
- Range of operating Pressure: 1.0 - 3.0 kg/cm<sup>2</sup>
- Flow Rate Range: 82 - 246 LPH
- Recommended Spacing 3x3, 3.5x3.5 , 4x4 & 5X 5m

# Aquatuff Excel Micro Sprinkler (Special)

AQ - 206



## Features

- Self tapping connection
- Excellent distribution uniformity.
- Range of operating Pressure: 1.0 - 2.5kg/cm<sup>2</sup>
- Flow Rate Range: 37 - 177 LPH
- **Installed in the ground on stake or hang it by wire.**
- Recommended Spacing 3x3, 3.5x3.5 ,4x4 & 4.5 x 4.5 m.
- Insect proof design
- **Optional trunk protector to protect the plant trunk from wetting, restricting fungus, algae growth.**
- Specially designed Circlip to easily open micro sprinkler for cleaning by the end user.
- Excellent gripping of self tapping connection with 4x7mm PVC tube
- UV & Chemical Resistant material.

## Applications

- For irrigation of tree plantation of large root volumes, fruit trees, orchards etc.
- For irrigation of widely spaced plants upto 4x4m spacing.

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# Flow Regulating Micro Sprinkler

AQ - 206PC



## Features

- Constant Flow between 2 to 4 kg/cm<sup>2</sup> pressure.
- Flow Rate: 20, 28, 39, 62, 72, 95 LPH.
- Range of operating Pressure:  
20, 28, 39, 62 LPH: 2 - 4 kg/cm<sup>2</sup>  
72 and 95 LPH: 1.75 - 3.5 kg/cm<sup>2</sup>
- **Installed in the ground on stake or hang it by wire.**
- Recommended Spacing: 3x3, 3.5x3.5 & 4x4m
- Two Stage wetted diameter control.
- Insect proof design.
- Excellent distribution uniformity.
- **Optional trunk protector to protect the plant trunk from wetting, restricting fungus, algae growth.**
- Quick thread & push fit adopter connection.
- 4x7mm PE/PVC tube.
- UV & Chemical Resistant material.

## Applications

- For Uniform irrigation of orchard, vineyards, nursery & undertree where undulating terrain and long laterel lengths are challenging.

# Mini Sprinklers



## Features

- Uniform water application maintains optimum soil moisture ratio
- Uniform germination & fertilizer application
- No Soil Erosion- soil conservation
- Easy to install & dismantle with visibility of operation
- Being a versatile system , can be used for 2-3 crops each year
- Distance between sprinklers : 8-12 mtr
- Low application rate : 4-5mm/hr
- Low operating pressure, thus energy saving : 1.5bar-3.5bar
- Environment friendly, avoids leaching of soil & fertilizers in ground water
- Durable and weather resistance - long life span
- Recommended Spacing : 9x9m, 10x10m, 10x12m & 12x12m

## Application

- All row crops irrigation compatible by overhead irrigation on solid set systems - portable or permanent.
- Agriculture fields and germination of vegetable, flowers & nursery crops.

# Aquafly



## Features & Specifications

- Sturdy Structure and User Friendly
- 1/2" male threaded connection
- Excellent distribution uniformity.
- Range of operating Pressure: 1.0 - 2.0kg/cm<sup>2</sup>
- Flow Rate Range: 240 - 557 LPH
- Recommended Spacing 4x4m, 5x5m & 6x6m
- Bridge rotation do no leave dry patches in the field.

## Applications

- High Volume, low pressure plastic micro sprinkler for overhead irrigation of close spacings vegetable crops (Ginger, Onion, Potatoes etc.) and flowers.
- For irrigation of widely spaced plants upto 6x6m sapcing at Agri-Stand.
- Ideal for crops Which Require more water.

# Aquatuff Agristand



## Features

- Sturdy Structure and User Friendly
- 3/8" & 1/2" male threaded connection
- Insect proof Pop-up Swivel
- Range of operating Pressure: 1.5 - 2.5kg/cm<sup>2</sup>
- Flow Rate Range: 175 - 450 LPH
- Recommended Spacing: 4x4m, 5x5m & 6x6m
- **Aquatuff low trajectory model specially for banana tree is also available.**

## Applications

- For overhead irrigation of Orchard, nurseries, Green houses and vegetable crops.
- For irrigation of widely spaced plants upto 6x6m sapcing at Agri-Stand
- Ideal for frost protection and overhead cooling



# Aquamic Inverted

Rotor



## Features & Specifications

- Operating Pressure Range : 1½ to 2½ kg/cm<sup>2</sup>
- Fine drops creates uniform cloud.
- Recommended Spacing : 3x3m, 3.5x3.5m & 4x4m
- Coverage Diameter : 7.6 to 10.8 mtr.
- Discharge Flow Rates : 45 to 290 ltr/hr.

## Applications

- Irrigation of plants in shade nets, nurseries & greenhouses.
- Can be used in poultry for cooling of birds directly.

# Aquamic Inverted

(Mist Sprayer)



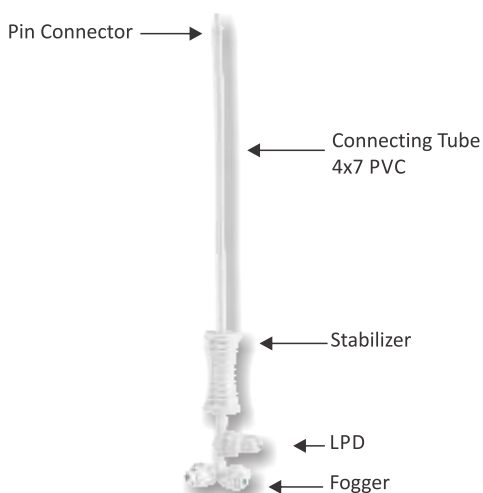
## Features & Specifications

- Operating Pressure Range : 1½ to 2½ kg/cm<sup>2</sup>
- Fine drops creates uniform cloud.
- Recommended Spacing : 1x1m & 1.5x1.5m
- Coverage Diameter : 2.2 to 4.8 mtr.
- Discharge Flow Rates : 29 to 182 LPH

## Applications

- Nurseries, Greenhouses & shade nets.
- Creation of micro climatic condition & humidity control

# Aquafog



## Features & Specifications

- Bridge less design eliminates dripping.
- Interchangeable components.
- Components are acid resistant allowing the application chemicals to pass through the system.
- Uniformly distributes an average droplet size of 60 micron within a pressure range.
- Provides perfect conditions for plant propagation.
- Leakage Prevention Device (LPD) for simultaneous start-up and shut-down of the system.

## Applications

- Designed for cooling and humidifying greenhouses & livestock.
- Provides perfect condition for plant propagation & seed germination.



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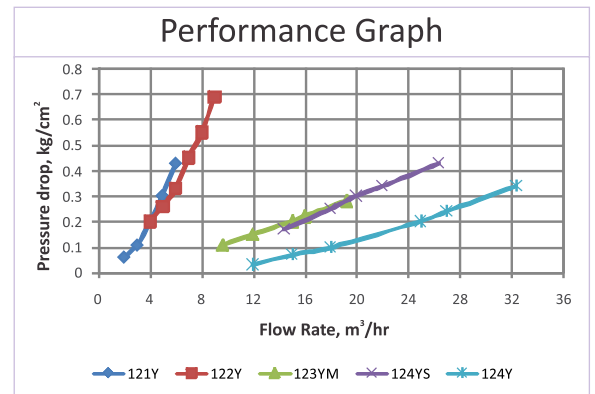
# Y-Type Screen Filters

¾", 1", 1½" & 2"



## Features

- Flow Passes Through Inside To Outside Of Screen Cartridge
- Uniform Distribution Of Flow Into Filter Housing Optimize Filtration Process .
- Filter Designed For Max . Operating Pressure 8 & 10bar.
- ¾" Male Threaded 2 Pressure Ports .
- Stainless Steel (SS 316) Double Mesh Screen For Rust Prevention .
- Filter Body Cap Equipped With ¾" Female Threaded Connection For Draining
- Screen Cartridge With Double Screen 30 & 120mesh To a avoid tearing of Mesh .

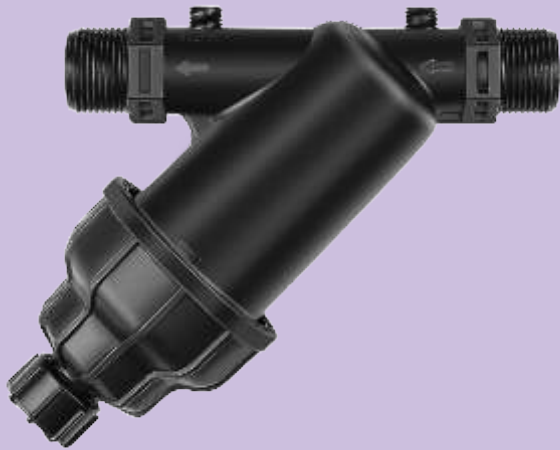


## Specifications

| Model                               |                    | 121Y                     | 122Y           | 123YM           | 124YS          | 124Y       |
|-------------------------------------|--------------------|--------------------------|----------------|-----------------|----------------|------------|
| Max. Working Pressure (PPGF Filter) | Kg/cm <sup>2</sup> | 8                        | 8              | 8               | 8              | 8          |
| Max. Working Pressure (PA Filter)   | Kg/cm <sup>2</sup> | 10                       | 10             | 10              | 10             | 10         |
| Recommended flow                    | lit/min            | 83                       | 116            | 250             | 333            | 417        |
|                                     | m <sup>3</sup> /hr | 5                        | 7              | 15              | 20             | 25         |
| Range of Flow Rate                  | m <sup>3</sup> /hr | 4-6                      | 5-8            | 12-16           | 18-22          | 15-27      |
| Screen Cartridge (Standard)         |                    | Double Screen 30/120mesh |                |                 |                |            |
| Filtration Surface area             | cm <sup>2</sup>    | 120                      | 120            | 295             | 295            | 480        |
| Inlet/outlet connection             | BSP/NPT            | ¾" Male Thread           | 1" male thread | 1½" Male Thread | 2" Male Thread |            |
| Closing System                      |                    | Threaded Cover           |                |                 |                |            |
| Distance between End connections    | mm                 | 155                      | 183            | 237.5           | 235.7          | 300.5      |
| Max. Filter height                  | mm                 | 174                      | 174            | 228             | 228            | 294.5      |
| Max. Filter width                   | mm                 | 86                       | 86             | 125.5           | 125.5          | 172        |
| Cartridge Diameter (With O-ring)    | mm                 | 48                       | 48             | 70              | 70             | 111        |
| Cartridge Length                    | mm                 | 152                      | 152            | 224             | 224            | 286        |
| Drain Valve                         |                    | ¾" End Cap               | ¾" End Cap     | ¾" End Cap      | ¾" End Cap     | ¾" End Cap |

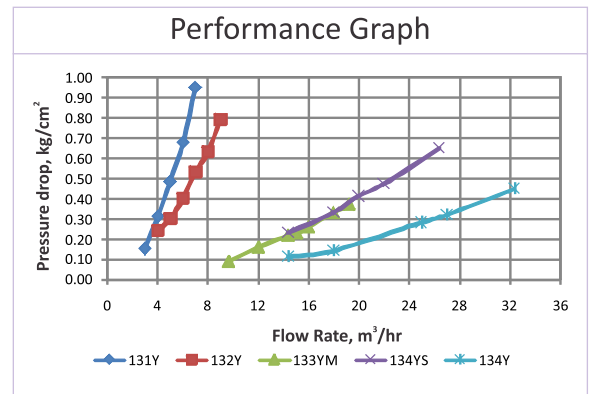
# Y-Type Manual Disc Filters

¾", 1", 1½" & 2"



## Features

- Disc Filter designed for Outside to Inside flow.
- AUXILIARY CONNECTIONS - Two pressure gauge ports with ¼" male threaded connections.
- Filter body and cap connected by threaded connection to sustain high pressure and easy opening & closing.
- High filtration efficiency.
- Spring loaded Disc cartridge for uniform compression of Discs.
- UV protected, chemical and high pressure resistant reinforced plastic material used.



## Specifications

| Model                               |                    | 131Y                                       | 132Y           | 133YM           | 134YS          | 134Y       |
|-------------------------------------|--------------------|--|----------------|-----------------|----------------|------------|
| Max. Working Pressure (PPGF Filter) | Kg/cm <sup>2</sup> | 8  | 8              | 8               | 8              | 8          |
| Max. Working Pressure (PA Filter)   | Kg/cm <sup>2</sup> | 10   | 10             | 10              | 10             | 10         |
| Recommended flow                    | lit/min            | 50   | 100            | 250             | 333            | 417        |
|                                     | m <sup>3</sup> /hr | 3  | 6              | 15              | 20             | 25         |
| Range of Flow Rate                  | m <sup>3</sup> /hr | 3-5  | 5-8            | 12-16           | 18-22          | 18-27      |
| Filter Disc (standard)              |                    | 120 mesh PP disc (One removable cartridge) |                |                 |                |            |
| Filtration Surface area             | cm <sup>2</sup>    | 147.5                                      | 147.5          | 409             | 409            | 508        |
| Inlet/outlet connection             | BSP/NPT            | ¾" Male Thread                             | 1" Male Thread | 1½" Male Thread | 2" Male Thread |            |
| Closing System                      |                    | Threaded Cap                               |                |                 |                |            |
| Distance between End connections    | mm                 | 155  | 183            | 237.5           | 235.7          | 300.5      |
| Max. Filter Height                  | mm                 | 174  | 174            | 228             | 228            | 294.5      |
| Max. Filter Width                   | mm                 | 86   | 86             | 125.5           | 125.5          | 172        |
| Cartridge Diameter (With O-ring)    | mm                 | 48   | 48             | 71.5            | 71.5           | 111        |
| Cartridge Length                    | mm                 | 180  | 180            | 258             | 258            | 292        |
| Drain Valve                         |                    | ¾" End Cap                                 | ¾" End Cap     | ¾" End Cap      | ¾" End Cap     | ¾" End Cap |



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# Screen Filters

T-Type



Outside - Inside filtration

## Features

- Outside - Inside filtration.
- Bigger port for water drainage.
- Special single mesh SS-316 for strength and corrosion resistance.
- Provided with specially designed vacuum breaker valve to avoid vacuum formation.
- DuPont Nylon Hybrid Clamp with SS lock.
- Specially designed long handle for easy clamp opening.

## Specifications

| Model                               |                    | 124T (HC)                                      | 124TL (HC)  | 125T (HC)        | 125TL (HC)  | 126T (HC)      | 126TL (HC)  |
|-------------------------------------|--------------------|--|-------------|------------------|-------------|----------------|-------------|
| Max. Working Pressure (PPGF Filter) | Kg/cm <sup>2</sup> | 6  | 6           | 6                | 6           | 6              | 6           |
| Recommended flow                    | lit/min            | 417  | 500         | 500              | 667         | 667            | 833         |
|                                     | m <sup>3</sup> /hr | 25   | 30          | 30               | 40          | 40             | 50          |
| Range of Flow Rate                  | m <sup>3</sup> /hr | 20-27  | 25-32       | 27-35            | 35-45       | 35-45          | 45-51       |
| Screen Cartridge (Standard)         |                    | Single 120mesh SS-316, 5 Heddle Screen weaving |             |                  |             |                |             |
| Filtration Surface area             | cm <sup>2</sup>    | 500  | 764         | 500              | 764         | 764            | 1000        |
| Inlet/outlet connection             | BSP/NPT            | 2" male thread                                 |             | 2.5" male thread |             | 3" male thread |             |
| Closing System                      |                    | Reinforced Nylon Clamp                         |             |                  |             |                |             |
| Distance between End connections    | mm                 | 340  | 340         | 343              | 343         | 340            | 340         |
| Max. Filter height                  | mm                 | 550  | 625         | 555              | 635         | 650            | 772         |
| Max. Filter width                   | mm                 | 322  | 322         | 322              | 322         | 322            | 322         |
| Cartridge Diameter (With O-ring)    | mm                 | 122  | 122         | 122              | 122         | 122            | 122         |
| Cartridge Length                    | mm                 | 282  | 377         | 282              | 377         | 377            | 502         |
| Drain Valve                         |                    | ¾" M x ¾" F                                    | ¾" M x ¾" F | ¾" M x ¾" F      | ¾" M x ¾" F | ¾" M x ¾" F    | ¾" M x ¾" F |

### Filtering Element

- 80 Mesh
- 120 Mesh
- 150 Mesh



AQ-87 VB  
Specially designed Vacuum Breaker



Specially designed cartridge skeleton for giving extra ordinary strength to screen element.

# Screen Filters

T-Type



Inside-Outside filtration

## Features

- The filters are made from special Chemically bonded Polymer which are weather resistant.
- Screen filter cartridges are made of Stainless Steel - Double/Singal mesh which are corrosion resistant.
- Inside-Outside filtration.
- SS Clamp for high pressure operations.

## Specifications

| Model                               |                    | 124T   | 124TL       | 125T            | 125TL       | 126T           | 126TL       |
|-------------------------------------|--------------------|--|-------------|-----------------|-------------|----------------|-------------|
| Max. Working Pressure (PPGF Filter) | Kg/cm <sup>2</sup> | 8  | 8           | 8               | 8           | 8              | 8           |
| Max. Working Pressure (PA Filter)   | Kg/cm <sup>2</sup> | 10   | 10          | 10              | 10          | 10             | 10          |
| Recommended flow                    | lit/min            | 417  | 500         | 500             | 667         | 667            | 833         |
|                                     | m <sup>3</sup> /hr | 25   | 30          | 30              | 40          | 40             | 50          |
| Range of Flow Rate                  | m <sup>3</sup> /hr | 20-27  | 25-32       | 27-35           | 35-45       | 35-45          | 45-51       |
| Screen Cartridge (Standard)         |                    | Single 120mesh SS-316, 5 Heddle Screen weaving |             |                 |             |                |             |
| Filtration Surface area             | cm <sup>2</sup>    | 480  | 817         | 480             | 817         | 817            | 1048        |
| Inlet/outlet connection             | BSP/NPT            | 2" male thread                                 |             | 2½" male thread |             | 3" male thread |             |
| Closing System                      |                    | Stainless Steel Clamp                          |             |                 |             |                |             |
| Distance between End connections    | mm                 | 340  | 340         | 343             | 343         | 340            | 340         |
| Max. Filter height                  | mm                 | 640  | 690         | 645             | 695         | 710            | 837         |
| Max. Filter width                   | mm                 | 252  | 252         | 252             | 252         | 252            | 252         |
| Cartridge Diameter (With O-ring)    | mm                 | 122  | 122         | 122             | 122         | 122            | 122         |
| Cartridge Length                    | mm                 | 310  | 383         | 310             | 383         | 383            | 502         |
| Drain Valve                         |                    | ¾" M x ¾" F                                    | ¾" M x ¾" F | ¾" M x ¾" F     | ¾" M x ¾" F | ¾" M x ¾" F    | ¾" M x ¾" F |

### Filtering Element

- 80 Mesh
- 120 Mesh
- 150 Mesh



# Disc Filters



## Features

- DuPont Nylon Hybrid Clamp with SS Lock for high pressure operations.
- Bigger drain Port with 3/4" ball valve for quick drainage.
- Disc Filters are made with special Helix system which gives better performance & results.

## Specifications

| Model                    | 134TS (HC)                             | 134T (HC)                              | 135T (HC)                              | 135TL (HC)                             | 136TS (HC)                             | 136T (HC)                              |
|--------------------------|--|--|--|--|--|--|
| Max. Operating Pressure  | 6 kg/cm <sup>2</sup>                   | 6 kg/cm <sup>2</sup>                   | 6 kg/cm <sup>2</sup>                   | 6 kg/cm <sup>2</sup>                   | 6 kg/cm <sup>2</sup>                   | 6 kg/cm <sup>2</sup>                   |
| Max. Recommended flow    | 417 lit/m (25 m <sup>3</sup> /h)       | 500 lit/m (30 m <sup>3</sup> /h)       | 500 lit/m (30 m <sup>3</sup> /h)       | 667 lit/m (40 m <sup>3</sup> /h)       | 667 lit/m (40 m <sup>3</sup> /h)       | 833 lit/m (50 m <sup>3</sup> /h)       |
| Range of Flow Rate       | 18-27 m <sup>3</sup> /h                | 22-35 m <sup>3</sup> /h                | 25-35 m <sup>3</sup> /h                | 35-45 m <sup>3</sup> /h                | 35-45 m <sup>3</sup> /h                | 45-52 m <sup>3</sup> /h                |
| Filter Screen (Standard) | 120 mesh PP disc (removable cartridge) | 120 mesh PP disc (removable cartridge) | 120 mesh PP disc (removable cartridge) | 120 mesh PP disc (removable cartridge) | 120 mesh PP disc (removable cartridge) | 120 mesh PP disc (removable cartridge) |
| Filtration Surface area  | 878 cm <sup>2</sup>                    | 1193 cm <sup>2</sup>                   | 878 cm <sup>2</sup>                    | 1193 cm <sup>2</sup>                   | 1193 cm <sup>2</sup>                   | 1690 cm <sup>2</sup>                   |
| Inlet/ outlet connection | 2" BSP/NPT male thread                 | 2" BSP/NPT male thread                 | 2½" BSP/ NPT male thread               | 2½" BSP/ NPT male thread               | 3" BSP/NPT male thread                 | 3" BSP/NPT male thread                 |
| Distance Connections     | 340mm                                  | 340mm                                  | 343mm                                  | 343 mm                                 | 340mm                                  | 340mm                                  |
| Max. filter Height       | 550 mm                                 | 625 mm                                 | 582 mm                                 | 635 mm                                 | 650 mm                                 | 772 mm                                 |
| Max. filter width        | 322 mm                                 | 322 mm                                 | 322 mm                                 | 322 mm                                 | 322 mm                                 | 322 mm                                 |
| Cartridge Diameter       | 122 mm                                 | 121 mm                                 | 122 mm                                 | 122 mm                                 | 122 mm                                 | 122 mm                                 |
| Cartridge Length         | 305 mm                                 | 388 mm                                 | 305 mm                                 | 388mm                                  | 388mm                                  | 515 mm                                 |
| Drain Valve              | ¾" M x ¾" M valve                      | ¾" M x ¾" F valve                      | ¾" M x ¾" F valve                      | ¾" M x ¾" F valve                      | ¾" M x ¾" F valve                      | ¾" M x ¾" F valve                      |



Vacuum Breaker



Drain Port



Hybrid Clamp

### Filtering Element

80 Mesh ■ 120 Mesh ■ 150 Mesh ■

# Disc Filters



## Features

- Outside to Inside flow passes through stacks of disc.
- Stainless steel clamp allow filter to operate at high pressure upto 8/10 bar and gives maximum safety during working.
- Drain port provided below the filter barrel with 3/4" x 3/4" drain valve.
- Grooved disc designed provide high filtration efficiency and separation of physical and bacterial impurities.
- Disc housing fan gives water a rotating motion that reduces the cleaning frequency.
- No tooling is required to open the filter during cleaning & maintenance.

## Specifications

| Model   |                    | 134TS  | 134T            | 135T               | 135TL           | 136TS           | 136T            |
|---|--------------------|--|-----------------|--------------------|-----------------|-----------------|-----------------|
| Max. Working Pressure (PPGF Filter with SS Clamp) | Kg/cm <sup>2</sup> | 8  | 8               | 8                  | 8               | 8               | 8               |
| Max. Working Pressure (PA Filter with SS Clamp)   | Kg/cm <sup>2</sup> | 10   | 10              | 10                 | 10              | 10              | 10              |
| Recommended flow                                  | lit/min            | 417  | 500             | 500                | 667             | 667             | 833             |
|   | m <sup>3</sup> /hr | 25   | 30              | 30                 | 40              | 40              | 50              |
| Range of Flow Rate                                | m <sup>3</sup> /hr | 18-27  | 22-35           | 25-35              | 35-45           | 35-45           | 45-52           |
| Filter Disc (standard)                            |                    | 120 mesh PP disc (One removable cartridge)   |                 |                    |                 |                 |                 |
| Filtration Surface area                           | cm <sup>2</sup>    | 878  | 1193            | 878                | 1193            | 1193            | 1690            |
| Inlet/outlet connection                           | BSP/NPT            | 2" male thread   |                 | 2 1/2" male thread |                 | 3" male thread  |                 |
| Closing System                                    |                    | Stainless Steel Clamp (Note: HC model available with Reinforced Nylon Plastic Clamp) |                 |                    |                 |                 |                 |
| Distance between End connections                  | mm                 | 340  | 340             | 343                | 343             | 340             | 340             |
| Max. Filter Height (With SS clamp)                | mm                 | 612  | 690             | 645                | 695             | 710             | 837             |
| Max. Filter Height (With Plastic Clamp)           | mm                 | 550  | 625             | 582                | 635             | 650             | 772             |
| Max. Filter Width (With SS Clamp)                 | mm                 | 252  | 252             | 252                | 252             | 252             | 252             |
| Max. Filter Width (With Plastic Clamp)            | mm                 | 322  | 322             | 322                | 322             | 322             | 322             |
| Cartridge Diameter (With O-ring)                  | mm                 | 122  | 122             | 122                | 122             | 122             | 122             |
| Cartridge Length                                  | mm                 | 305  | 388             | 305                | 388             | 388             | 515             |
| Drain Valve                                       |                    | 3/4" M x 3/4" F  | 3/4" M x 3/4" F | 3/4" M x 3/4" F    | 3/4" M x 3/4" F | 3/4" M x 3/4" F | 3/4" M x 3/4" F |

### Filtering Element

80 Mesh  120 Mesh  150 Mesh 



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# Double Body Screen Filters

3" & 4"



## Features

- Flow passes through inside to outside of screen cartridge.
- Uniform distribution of flow into filter housing optimizes the filtration process.
- Threaded brass insert, 4 pressure ports for increasing operational life of the filter.
- Double mesh provides extra strength to avoid damage to 120 mesh screen.
- Both barrels equipped with 3/4" female threaded connection for easy drainage.
- Inside design of screen cartridge facilitates easy cleaning by brush.

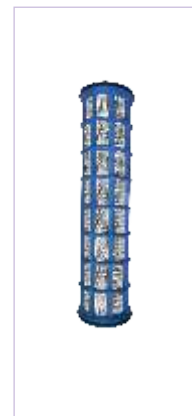
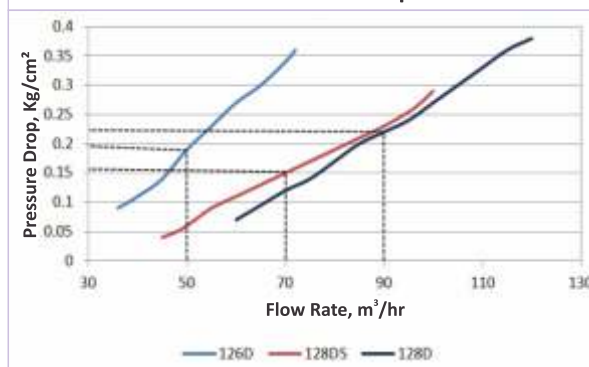
## Specifications

| Model                               | AQ-126D                               | AQ-128DS                 | AQ-128D                  |
|-------------------------------------|---------------------------------------|--------------------------|--------------------------|
| Inlet/outlet connection             | 3" BSP Male Thread                    | 4" BSP male thread       | 4" BSP male thread       |
| Max. Working Pressure (PPGF Filter) | 8 kg/cm <sup>2</sup>                  | 8 kg/cm <sup>2</sup>     | 8 kg/cm <sup>2</sup>     |
| Max. Working Pressure (PA Filter)   | 10 kg/cm <sup>2</sup>                 | 10 kg/cm <sup>2</sup>    | 10 kg/cm <sup>2</sup>    |
| Range of Flow Rate                  | 45-60 m <sup>3</sup> /h               | 60 -80 m <sup>3</sup> /h | 80-100 m <sup>3</sup> /h |
| Nominal Flow Rate                   | 50 m <sup>3</sup> /h                  | 70 m <sup>3</sup> /h     | 90m <sup>3</sup> /h      |
| Filtration Surface area             | 1048 cm <sup>2</sup>                  | 1634 cm <sup>2</sup>     | 2096 cm <sup>2</sup>     |
| Material of Construction            | Glass Filled Polypropylene/ Polyamide |                          |                          |
| Screen Material                     | Stainless Steel SS-316                | Stainless Steel SS-316   | Stainless Steel SS-316   |
| Cartridge Diameter (With O-ring)    | 122 mm                                | 122 mm                   | 122 mm                   |
| Cartridge Length                    | 284 mm x 2mm                          | 383mm x 2mm              | 502mm X 2mm              |
| Available Mesh                      | 80, 120, 150 mesh                     | 80,120, 150 mesh         | 80, 120, 150 mesh        |

## Clean Pressure Drop Curve

### Filtering Element

- 80 Mesh
- 120 Mesh
- 150 Mesh





# Double Body Disc Filters

3" & 4"



## Features

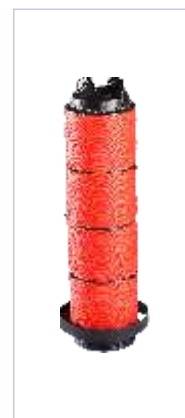
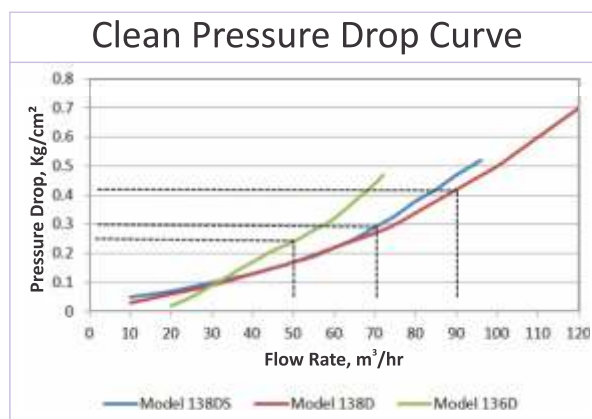
- Robust design.
- Disc housing fan generates hydro cyclonic effect that reduces cleaning frequency.
- Grooved disc design provides high filtration efficiency.
- Uniform distribution of flow into filter housing optimizes filtration process.
- 3/4" Drain Ball Valve & end plugs supplied along with the filter.

## Specifications

| Model                               | AQ-136D                               | AQ-138DS                | AQ-138D                  |
|-------------------------------------|---------------------------------------|-------------------------|--------------------------|
| Inlet/outlet connection             | 3" BSP Male Thread                    | 4" BSP Male Thread      | 4" BSP Male Thread       |
| Max. Working Pressure (PPGF Filter) | 8 kg/cm <sup>2</sup>                  | 8 kg/cm <sup>2</sup>    | 8 kg/cm <sup>2</sup>     |
| Max. Working Pressure (PA Filter)   | 10 kg/cm <sup>2</sup>                 | 10 kg/cm <sup>2</sup>   | 10 kg/cm <sup>2</sup>    |
| Range of Flow Rate                  | 45-60 m <sup>3</sup> /h               | 60-80 m <sup>3</sup> /h | 80-100 m <sup>3</sup> /h |
| Nominal Flow Rate                   | 50 m <sup>3</sup> /h                  | 70 m <sup>3</sup> /h    | 90 m <sup>3</sup> /h     |
| Filtration Surface area             | 1756 cm <sup>2</sup>                  | 2386 cm <sup>2</sup>    | 3380 cm <sup>2</sup>     |
| Material of Construction            | Glass Filled Polypropylene/ Polyamide |                         |                          |
| Material of Disc                    | Polypropylene disc                    | Polypropylene disc      | Polypropylene disc       |
| Cartridge Diameter                  | 122 mm                                | 122mm                   | 122 mm                   |
| Cartridge Length                    | 305mm x 2                             | 388mm x 2               | 515mm x 2                |
| Available Mesh                      | 80, 120, 150 mesh                     | 80, 120, 150 mesh       | 80, 120, 150 mesh        |

### Filtering Element

- 80 Mesh
- 120 Mesh
- 150 Mesh



# Semi - Automatic Disc Filter

2" & 3"



## Features

- Flow passes through outside to Inside of Disc cartridge.
- Uniform distribution of flow into filter housing optimize filtration process.
- Filter designed for Pressure rating PN8 (8bar) / PN10 (10bar)
- Disc cartridge enabled with spring loaded for full compression of disc and loosen during cleaning.
- Filter with Clogging indicator, Red pop up comes out at 0.6 kg/cm<sup>2</sup> pressure differential, indication end user to clean filter manually.
- During cleaning operation, all inlet water passes through the pipe, and water jets removes dirt from the discs.
- Handle for 90 degree rotation for cleaning of disc without dismantling of filter.

## Cleaning Instructions

- Cleaning of the filter must be done when pressure differential across the disc filter reaches 0.6 kg/cm<sup>2</sup> (8.5psi) or when the clogging indicator red button pops up.
- Cleaning the semi-automatic filter must be done while the filter is under pressure.
- Gradually open the flushing valve below the filter.
- To start cleaning mode of filter, turn the handle (top of the filter) 90 degree in clockwise direction.
- Cleaning operation starts, system pressure might increase during cleaning operation.
- When cleaning operation is over filter handle direction should be at filtration mode and then flushing valve should close gradually.
- In case the filter is still clogged (pressure indicator button is up). Repeat the above steps for effective disc cleaning.

## Specifications

| Model                               | AQ-134T-SAD                           | AQ-136T-SAD             |
|-------------------------------------|---------------------------------------|-------------------------|
| Inlet/outlet connection             | 2" BSP Male Thread                    | 3" BSP Male Thread      |
| Max. Working Pressure (PPGF Filter) | 8 kg/cm <sup>2</sup>                  | 8 kg/cm <sup>2</sup>    |
| Max. Working Pressure (PA Filter)   | 10 kg/cm <sup>2</sup>                 | 10 kg/cm <sup>2</sup>   |
| Range of Flow Rate                  | 18-27 m <sup>3</sup> /h               | 35-50 m <sup>3</sup> /h |
| Nominal Flow Rate                   | 25 m <sup>3</sup> /h                  | 40 m <sup>3</sup> /h    |
| Filtration Surface area             | 1080 cm <sup>2</sup>                  | 1590 cm <sup>2</sup>    |
| Material of Construction            | Glass Filled Polypropylene/ Polyamide |                         |
| Material of Disc                    | Polypropylene disc                    | Polypropylene disc      |
| Cartridge Diameter                  | 122 mm                                | 122 mm                  |
| Cartridge Length                    | 375mm                                 | 510mm                   |
| Available Mesh                      | 80, 120, 150 mesh                     | 80, 120, 150 mesh       |

# Hydrocyclone Filters

2", 2½" & 3"



## Features

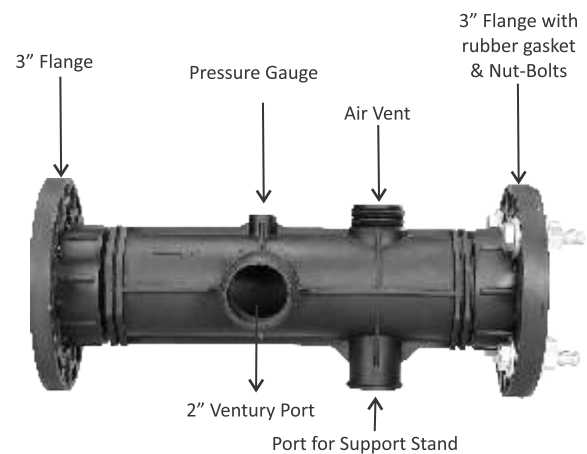
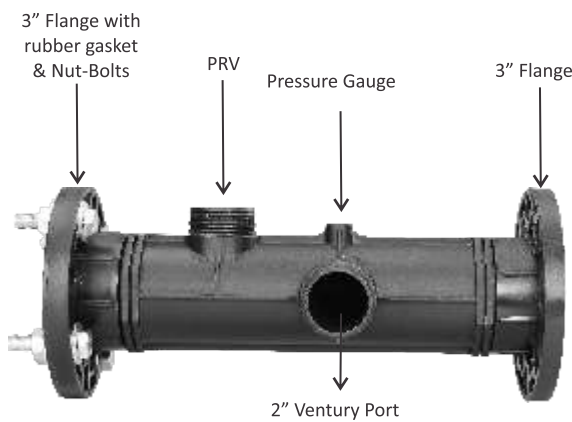
- Reinforced Polypropylene / Nylon Construction
- Hydro dynamically designed to create maximum centrifugal action.
- Dirt can be easily flushed out through drain port.
- Stainless Steel Clamp use for fast & easy cleaning of collector tank.
- New stand for Height increase.
- Collector tank available in 8 and 10litres.
- Specially designed High wear resistant special plastic material sleeve inbuilt during molding at the bottom of cone to avoid wearing due to strong sand vortex.

## Technical Specification

- Available Connections: BSP/NPT male threaded, Flange, Victaulic
- Maximum Operating Pressure: 6 kg/cm<sup>2</sup>

# Header (Manifold) Assembly

2", 2½" & 3"



## Applications

- Mini Sprinkler System
- Drip Irrigation
- Landscape Irrigation

## 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 Glass reinforced engineering plastic which is much stronger than PP.
- UV Stabilized.
- Corrosion resistant which is a major problem with metal Head Units.
- Pressure Rating : PN-8

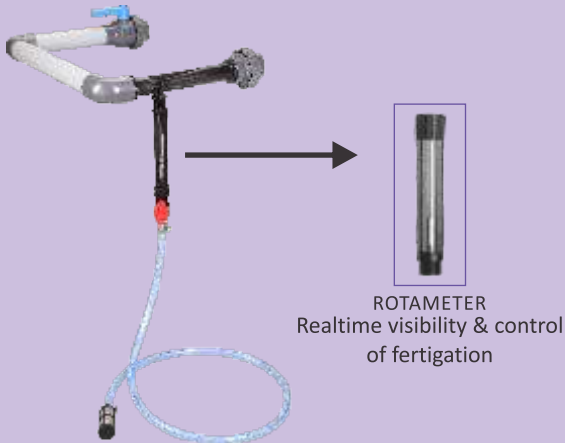


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# Venturi Injector

¾", 1", 1½" & 2"



## Features

- Available in  
AQ 112RS – ¾" – BSPT  
AQ 113RS – 1" – BSPT  
AQ 114RS – 1½" – BSPT/NPT  
AQ 115RS – 2" – BSPT/NPT
- In built check valve for protecting the injected liquid against back flow.
- With Rotameter, one can measure/read accurate suction of fertilizer injection rate.
- Rotameter is available in all sizes.
- All Venturies are also available with full assembly.

## Injector Selection Guide

| Model No. | Size In/Out | Efficiency (P) required to Initiate suction | Motive flow (Lit/Hr) through injector @ 2.50kg/cm <sup>2</sup> | Injection Capacity Lit/Hr |
|-----------|-------------|---|--|---------------------------|
| 112       | ¾"          | 30%   | 1525   | 40                        |
| 113       | 1"          | 25%   | 4645   | 78                        |
| 114       | 1½"         | 25%   | 7860   | 320                       |
| 115LF     | 2"          | 25%   | 11080  | 330                       |
| 115HF     | 2"          | 20%   | 20100  | 450                       |

## Benefits

- Controlled/Adjustable suction of fertilizers.
- Delivers plant nutrients directly into the wetted zone (where root development is intensive).
- Can be used with a large variety of chemicals.
- Uniform application of fertilizers.
- Saves Energy & Manpower.

# Fertilizer Tank

30 Ltr



## Features

- Small air release/ Vacuum relief valve for fast air release to fill tank completely and air intake to avoid damage to tank and fast draining.
- Inlet flow becomes turbulent for excellent mixing of fertilizer and chemical with water.
- Fertilizer tank inlet and outlet ports are provided with valve to control the injection rate.
- MS plated handle for easy movement of tank to suitable location.
- Wall thickness of tank suitable for high working pressure without damage to tank and for robust use.
- Handle fitted to the tank cover, end user can use it for easy open/close the cover, for pouring fertilizer/chemical into the tank.
- Hose assembly suitable for high working pressure without expansion and slipout connections.
- Fertilizer tank equipped with filter at the outlet port to restrict the entry of solid particles into the mains.

## Application

- Fertilizer tanks for use of chemical and fertilizer injection through drip and sprinkler irrigation system.

# Super Suction Venturi Injector

2"

New



## Features

- Controlled Adjustable suction as required in field.
- Deliver plant nutrients directly into wetted zone.
- Can be used large variety of chemical / fertilizers.
- Uniform fertilizer Application.
- More saving of energy as well as manpower.
- Spring loaded external NRV for easy cleaning.

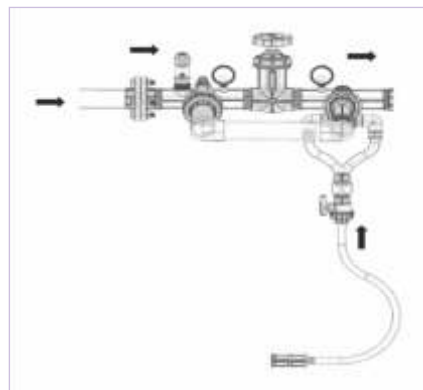


## Applications

- It is used for higher quantity fertilizer application or chemical injection in irrigation system by creating minimum energy loss.
- Min. pressure differential less than 20% enables a chemical or fertilizer to be drawn through the suction port and is dynamically entrained into the irrigation system.
- Min. motive flow required to inject higher chemical/fertilizer injection into irrigation system.

## Technical Specifications

- Inlet/Outlet: 2" male BSP/NPT threaded connections.
- Combined Suction Port: 1" Male threaded Suction Port.
- Working pressure: 1-6 kg/cm<sup>2</sup>
- External NRV: 1" Male x female threaded connection.
- Min. Pressure Differential required: 15%
- External NRV cracking pressure: 0.1 - 0.15kg/cm<sup>2</sup>
- No performance variation by horizontal/vertical installation.



# Single Union PVC Ball Valves

¾", 1", 1¼", 1½", 2", 2½", 3" & 4"



AQ - 64FFSU



AQ - 65FMSU

## Features

- Regular handle for use in complete header assembly unit.
- Pressure Rating- PN- 16 for upto 2" Ball valves  
PN- 10 for 2½", 3" & 4"
- Specially designed long handle for ease of operation once installed in system.



AQ - 66FFSU



AQ - 69BVSP

## Sizes Available

| Size | Threaded Connections |                  | Solvent Connections |
|------|----------------------|------------------|---------------------|
|      | Female x Female      | Female x Male    | Plain x Plain       |
| ¾"   | AQ - 62FFSU          | AQ - 62FMSU      | AQ - 62PSU          |
| 1"   | AQ - 63FFSU          | AQ - 63FMSU      | AQ - 63PSU          |
| 1¼"  | AQ - 64FFSU          | AQ - 64FMSU      | AQ - 64PSU          |
| 1½"  | AQ - 65FFSU          | AQ - 65FMSU      | AQ - 65PSU          |
| 2"   | AQ - 66FFSU          | AQ - 66FMSU      | AQ - 66PSU          |
| 2½"  | AQ - 67FFSU          | AQ - 67FMSU      | AQ - 67PSU          |
| 3"   | AQ - 68FFSU          | AQ - 68FMSU      | AQ - 68PSU          |
| 4"   | AQ - 69BVSP (FF)     | AQ - 69BVSP (FM) | AQ - 69BVSP (C)     |

## Dimensions

| Size       | BSP     | NPT     | ASTM  | BS  | DIN | ISO | dk   | D     | l     | L     | Lt    | E     | H    |
|------------|---------|---------|-------|-----|-----|-----|------|-------|-------|-------|-------|-------|------|
|            | Thd./in | Thd./in | d     | d   | d   | d   |      |       |       |       |       |       |      |
| 20mm (¾")  | 14      | 14      | 26.67 | 26  | 25  | 25  | 20   | 60    | 18    | 64.5  | 82.6  | 60.3  | 56.5 |
| 25mm (1")  | 11      | 11.5    | 33.4  | 34  | 32  | 32  | 24.5 | 69.2  | 20    | 71    | 93    | 70.5  | 62.6 |
| 32mm (1¼") | 11      | 11.5    | 42.16 | 42  | 40  | 40  | 31.8 | 79.5  | 26    | 88    | 122.5 | 121.8 | 65.5 |
| 40mm (1½") | 11      | 11.5    | 48.26 | 48  | 50  | 50  | 39.4 | 94.4  | 32    | 76.6  | 148.8 | 121   | 88.3 |
| 50mm (2")  | 11      | 11.5    | 60.33 | 60  | 63  | 63  | 49.5 | 116   | 35.4  | 88    | 175.4 | 149.9 | 97   |
| 65mm (2½") | 11      | 8       | 73.03 | 75  | 75  | 75  | 59   | 131.6 | 30.45 | 108.4 | 186.7 | 162   | 106  |
| 80mm (3")  | 11      | 8       | 88.9  | 89  | 90  | 90  | 76   | 176.8 | 43.4  | 140   | 213.8 | 198.3 | 139  |
| 100mm (4") | 11      | 8       | 114.3 | 114 | 110 | 110 | 98   | 196.5 | 60    | 200   | 268   | 160   | 183  |

# Double Union Ball Valves

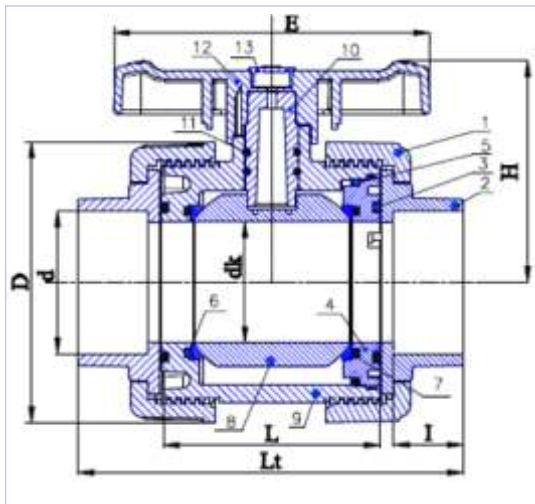
1", 1½", 2", 2½" & 3"



AQ - 67FFDU

## Features

- Quarter turn handle operated ball valve.
- End connections : Threaded/Solvent Socket
- Max. Pressure : 1" , 1½" & 2" : 16 Bar/ 230Psi  
2½" & 3" : 10 bar/ 145Psi
- True union design for easier installation or repair, without expanding the pipe system .
- User friendly design allows smooth operation of handle.
- Union nut load does not transfer on to ball.
- Free from vibration or chattering during opening and closing of valve.
- In build Spanner wrench on Handle for valve disassemble /assemble .
- TPE Seals with O-ring gives cushioning effect that ensures leakage free and low fixed torque.
- Chemical/Corrosion resistant, Color UV stabilized .



## Material Specification

| Position | Description       | Material | Qty. |
|----------|-------------------|----------|------|
| 1        | Ring              | UPVC     | 2    |
| 2        | Socket            | UPVC     | 2    |
| 3        | Bush Small O-Ring | NBR      | 2    |
| 4        | Bush              | UPVC     | 1    |
| 5        | Bush Big O-Ring   | NBR      | 1    |
| 6        | *Seal O-Ring      | NBR      | 2    |
| 7        | Seal              | EPDM/TPE | 2    |
| 8        | Ball              | UPVC     | 1    |
| 9        | Body              | UPVC     | 1    |
| 10       | Shaft             | UPVC     | 1    |
| 11       | Shaft O-Ring      | NBR      | **2  |
| 12       | Handle            | ABS      | 1    |
| 13       | Handle Logo       | ABS      | 1    |

\* Only in 1½" & 3" Ball valve, \*\* one in 2" Model.

## Dimensions

| Size       | BSP     | NPT     | ASTM  | BS | DIN | ISO | dk   | D     | I     | L     | Lt    | E     | H    |
|------------|---------|---------|-------|----|-----|-----|------|-------|-------|-------|-------|-------|------|
|            | Thd./in | Thd./in | d     | d  | d   | d   |      |       |       |       |       |       |      |
| 25mm (1")  | 11      | 11.5    | 33.4  | 34 | 32  | 32  | 24.5 | 68    | 23    | 55.5  | 108   | 80    | 62   |
| 40mm (1½") | 11      | 11.5    | 48.26 | 48 | 50  | 50  | 39.4 | 94.4  | 32    | 76.6  | 148.8 | 121   | 88.3 |
| 50mm (2")  | 11      | 11.5    | 60.33 | 60 | 63  | 63  | 49.5 | 116   | 35.4  | 88    | 175.4 | 149.9 | 97   |
| 65mm (2½") | 11      | 8       | 73.03 | 75 | 75  | 75  | 59   | 131.6 | 30.45 | 108.4 | 186.7 | 162   | 106  |
| 80mm (3")  | 11      | 8       | 88.9  | 89 | 90  | 90  | 76   | 176.8 | 43.4  | 140   | 213.8 | 198.3 | 139  |

# Plastic Wafer Type Butterfly Valve: Lever Operated

2", 2½", 3" & 4"



## Features

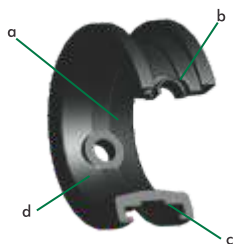
- Light Weight, easy to install.
- One Piece Body made of PVC-U.
- Disc designed ensuring low torque and low pressure loss.
- Suitable for piping in a limited space.
- Butterfly Valve for water applications (Irrigation)

## Technical Specifications

- Nominal Size (DN) 50mm (2"), 65mm (2½"), 80mm (3") & 100mm (4")
- Nominal Pressure: PN-6
- Fluid Handled: Liquid
- Manufacturing Standard: IS: 13095
- Hydrostatic Test Pressure of Body: 9 kg/cm<sup>2</sup> (at 27° C temp.)
- Hydrostatic Test Pressure of Seat: 6 kg/cm<sup>2</sup> (at 27° C temp.)
- Temperature Range: -5°C to 50°C
- Service Application: Regulating & Tight Shut Off
- Type of Construction: Wafer Type
- Face to Face Dimension:  
For 2", 2½" & 3" : 46mm ; For 4" : 60mm
- Orientation of Lever: Parallel to Flow, when valve fully open.

# Hybrid Wafer Type Butterfly Valve: Lever Operated

2", 2½", & 3"



## Features

- Light Weight, easy to install.
- One Piece Body made of PVC-U.
- Disc designed ensuring low torque and low pressure loss.
- Suitable for piping in a limited space.
- Butterfly Valve for water applications  
(Irrigation, water treatment, Industrial etc.)

## Rust Prevention

Body made of high quality PVC for strength and chemical resistance. butterfly valve disc made of stainless steel SS-304/316 for higher pressure rating and even for Industrial use.

## Lock Plate

Stainless Steel Lock Plate provided with throttling notches every 15° in balancing upto 90° or shut off service. The lever may be padlocked in any one of the notches position.

## EPDM Rubber Seal

- Wide disc seating contact for good sealing performance.
- Dual shaft seal bearing for stabilized sealing function.
- Excellent gripping of rubber seal to avoid operating problems such as distortion, deformation and skidding caused by line pressure and friction with metal.
- Gasket less flange sealing contact for easy valve mounting



# Plastic Angle Seat Valve

2"



## Features

- Sturdy and solid design.
- Multi turn liner motion throttling valve.
- Material used is Engineering Plastic for strength & durability.
- Easy to open and clean after period operation when used in underground valve box.
- Smooth movement using throttling wheel, makes the user operate the valve easily.
- No leakage within operating pressure range, when valve completely shut off.
- Easy to dismantle and assemble.
- Direction of flow mentioned.
- Can be installed in horizontal and vertical lines.
- Does not cause water hammering when operated.
- Has lesser turbulence during throttling.
- Chemical / Corrosion Resistant & UV protected.

## Applications

- Suitable for high flow applications.
- Installed in lines where conventional ball and other irrigation valves are difficult to install and operate.
- Medium to large throttling capability.
- Used for Turf Irrigation in valve box where ease of installation is required.

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# Throttle Valve

2", 2½", & 3"



## Features

- Multi Turn, Liner motion throttle valve
- End connections : Female 2", 2½" & 3" BSP/NPT Threaded type
- Operating Pressure: 6 Bar/ 90Psi
- Straight through flow with minimal head loss.
- Its slow operation prevent water hammer .
- Visual float position indicator to show us % throttle of piping system.
- Float, Body inside profile is matched by CNC machining for smooth operation and keeping the leakage under permissible limit during complete shut off.
- **Maintaining seat leakage permissible limit as per standard ANSI/FCI-70-2-2006 in Class III (0.10%) .**
- Chemical/Corrosion resistant, Color UV stablized.

## Product Highlights

- Steel Rod inserted in full length during injection moulding of Shaft made of Reinforced Nylon , that gives excellent strength without breakage during rough usage.
- Dowel pin inserted in the shaft to prevent extra travel of float which do not transfer load on during extra tightening by farmers. This prevents breakage of cap.
- During assembly of throttle valve, 2 nos. lock pins inserted to avoid any slippage or loosening of threads of throttle valve cap.

\* Flange end connection also available in 3" & 4"

# Bronze Hydraulic Control Valve

1", 1½" & 2"

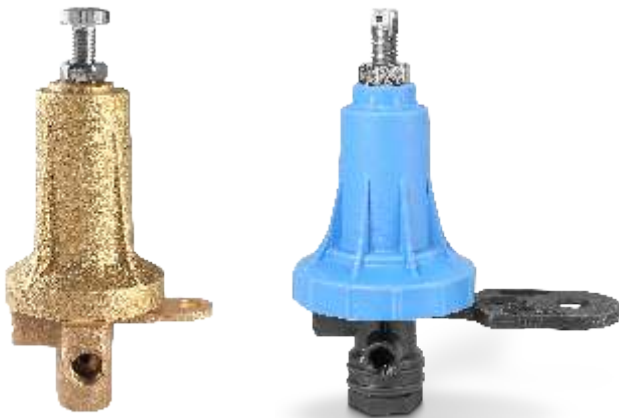


Hydraulically operated valve for green house irrigation system as well as turf and field crop irrigation.

## Features

- Simple and robust design, only 4 parts involved.
- Bronze Body and cover plate for durability and corrosion resistant.
- Metal reinforced rubber valve lid designed for smooth operation without deformation at high pressure with drop tight shutoff.
- Very less down time.
- Minimum Head loss due to very efficient internal design.
- Arrow for correct installation of hydraulic valve.
- Compatible with most irrigation controllers available in market.

## Pressure Reducing / Pressure Sustaining / Pressure Relief Pilot



## Features

- Simple and robust design, only 4 parts involved.
- Light in weight for easy installation and maintenance.
- Brass Base and Cap for durability and corrosion resistant.
- Pilot designed for quick sensing of line pressure and work for pressure reducing, pressure sustaining/Pressure relief.
- Very less down time.
- Marking for correct installation of hydraulic valve.
- Compatible with all hydraulic valves available in market.

## 3 Way Valve

Brass & Plastic



## Features

- Designed for three hydraulic flow control positions.
- Common Port at base of the valve body.
- Base Port Thread: Male threaded 1/4" BSP / NPT, 1/8" BSP / NPT
- Three Ports Thread: Female threaded 1/8" BSP / NPT
- Passage Size: 3.5mm
- Max. Pressure: 10 Bar/ 145Psi
- One moving part only.
- Three hydraulic control positions: Open, Close & Automatic.
- All valves are sealed when handle position in between port position.
- User friendly design allows smooth operation of handle with position indicator.
- All Plastic parts are Chemical/Corrosion resistant, Color UV stabilized.

# Spring Loaded ball type Plastic Check Valve

2", 2½" & 3"



## Features

- Delivers High Volume of water quickly with unrestricted full flow.
- Guided Ball for smooth operation.
- Polypropylene Material gives excellent chemical and corrosion resistant
- Prevents leakage from Ball seal at lower pressure.
- Spring Loaded Guided Ball for smooth & quick operation.
- Two Ports with pre factory installation of Vacuum Breaker at Inlet & End Plug at out port.
- Inlet Pressure port can be use for priming of pump.
- Arrow for correct installation of Check Valve.
- Universal Flange connection comply multi-International Flange standards.

## Applications

- For use after pumps and boosters, lateral pivots, filtration systems, swimming and as a foot check valve for pumping from ponds.
- Recommended in micro/drip irrigation systems as a safety valve to prevent the water hammer and to maintain water column in delivery pipe.

# Wafer Type Swing Check Valve

3" & 4"



## Features & Applications

- High performance and Cost Effective design.
- Requires little space in the piping system.
- PVC-U Material gives excellent chemical and corrosion resistant
- Prevents leakage from flap seal at lower pressure.
- Easy installation: Wafer body slips between the standard flanges.
- No flange gaskets required.
- Arrow for correct installation of Check valve.
- Light weight
- Recommended in micro/drip irrigation systems as a safety valve to prevent the water hammer and to maintain water column in delivery pipe.

## Technical Specifications

- Type of check valve: Swing Type Check Valve
- Connection: 3" (80mm) & 4" (100mm)
- Max. Operating Pressure: 6.0 kg/cm<sup>2</sup>
- Min. return pressure: 0.2bar or 3Psi (Minimal downstream pressure to keep the valve closed in horizontal position).
- Horizontal and vertical installation

# PVC Check Valve

1"



## Features

- High performance and Cost Effective design.
- Delivers High Volume of water quickly with unrestricted full flow.
- Spring Loaded Seal for smooth operation.
- PVC Material gives excellent corrosion resistant and Strength
- Prevents leakage from Ball seal at lower pressure.
- Spring Valve and Seal for smooth & quick operation.
- Light weight
- can be used in domestic pipelines, as a secondary check valves in venturi injector & driplines etc.
- Housing is completely closed to avoid parts missing during maintenance.

# Air Release / Vacuum Relief Valve

¾", 1", 1½", 2" & 3"



## Features

- Engineering Plastic for durability
- Large Volume air release as line is filled.
- Positive vacuum relief when line is draining.
- Do not leak at low pressure.
- Venting passage protect by Screen

## Technical Specifications

- Min. Sealing Pressure : For ¾" to 3" : 5 - 7 PSI
- Working Pressure Range: For ¾" to 2": 5 - 175 PSI

# Air Release / Vacuum Relief Valve

1", 1½", 2", 3" & 4"



## Features

- Light weight Aluminum body.
- Large Volume air release as line is filled.
- Positive vacuum relief when line is draining.
- Do not leak at low pressure.
- Venting passage protect by cover.

# Continuous Acting Air Release & Vacuum Relief Valve

1", 2", 3" & 4"

New



## Features

- Expulsion (Kinetic Air): When the pipe is being filled, the air release valve remains open expelling all the surplus air outside the installation. When the Pipe is full of water, air release valve closes tightly.
- Air Admission (Air Intake): While negative pressure (pipe vacuum) the air. Release valve opens to allow the air to go inside the pipe. This system avoids possible damages in pipes and accessories.
- Expulsion of the residual air (Automatic Air): The air release valve constantly releases the residual air generated in the installation (due to water level changes in reservoir during fertigation / leakages in suction pipe, fittings), expelling air even when the system is under pressurized condition.

# Pressure Relief Valve (Low Pressure System)

2"



AQ-102CLM

AQ-102CLF

## Features

- Model 102CLF: 2" Female Threaded connection PRV
- Model 102CLM: 2" Male threaded connection PRV
- Quick response to relief system surge pressure.
- High strength aluminum casting construction.
- Long term setting stability.
- User Friendly design
- Easy Pressure setting
- Pressure port available for pressure adjustment.

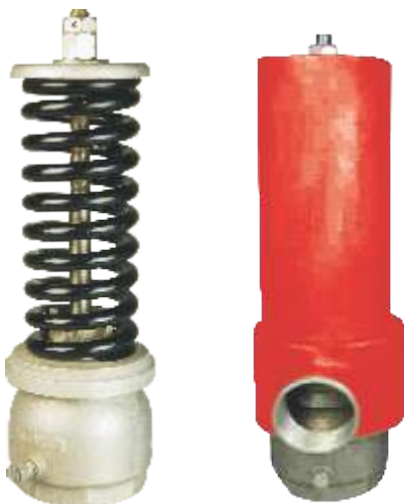
## Applications

- Pressure Relief valves are suitable for aluminum and high pressure plastic pipings used in irrigation systems.
- Pressure Relief valves are reliably protect piping system for damage caused by surge water pressure.

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# Pressure Relief Valve (High Pressure System)

2" & 3"



AQ-102/103

AQ-102C/103C

## Features

- Quick response to relief system surge pressure.
- High strength aluminum casting construction.
- Long term setting stability.
- User Friendly design
- Easy Pressure setting
- Pressure port available for pressure adjustment.

## Applications

- Pressure Relief valves are suitable for aluminum and high pressure plastic pipings used in irrigation systems.
- Pressure Relief valves are reliably protect piping system for damage caused by surge water pressure.

## Model Descriptions

- Model: 102: 2" PRV
- Model: 102C: 2" PRV with Cover
- Model: 102HP: High pressure setting 2" PRV
- Model: 1023: 3" PRV
- Model: 1023C: 3" PRV with cover

# T-Bolt Hose Clamp/ Layflat Hose Clamp

2", 3", 4", 6", 8", 10" & 12"



## Features

- Solid Stainless steel band.
- Clamp have rolled edge and smooth undersid to prevent hose damage.
- The high strength bolt, designed for this clamp together with captive nut and spacer system.
- For Heavy duty industrial fittings, all parts used of stainless steel grade SS-316.
- The clamp provides the 360degree uniform sealing.
- Bolt & Screw head ensures super strong fit when tightening.
- One bolt which pulls the two halves of the clamp together, creating a strong reliable hose clamp.
- All parts are Stainless steel with an extra strong construction to deliver high strength.
- Ideal for heavy duty applications where large tightening forces are required.
- This is the clamp of choice for professionals in industrial, automotive and agricultural sector where an reliable heavy duty clamp is required.

## Available In

| Size | Model No |
|------|----------|
| 2"   | AQ -352  |
| 3"   | AQ -354  |
| 4"   | AQ -355  |
| 6"   | AQ -356  |
| 8"   | AQ -357  |
| 10"  | AQ -358  |
| 12"  | AQ -359  |

## Applications

- Heavy duty full stainless steel T-bolt clamps provide uniform sealing pressure for a positive, reliable seal.
- Specifically designed for use in high vibration and large diameter applications.

# Brass Needle Valve



## Applications

- Needle valves are used to control flow in delicate gauges, which might be damaged by sudden surges of fluid under pressure.
- They are also used in situations where the flow must be gradually halted, and where fine adjustments of flow are necessary or where a small flow rate is desired.
- Needle valves can also be used as on/off valves or for throttling service.

## Technical Specifications & Features

- 1/4" BSP/ NPT Female x Female threaded connection
- Max. Working Pressure: 10 Bar/ 145Psi
- Orifice Size 5.0 mm.
- One moving part only.
- Metal to Metal seats for desired flow maintained with little to no variance.
- User friendly design allows smooth operation of knob.
- All Plastic parts are Chemical/Corrosion resistant, Color UV stabilized.

# Pressure Gauge



## Features

- Connection: ¼" Male Threaded BSP/NPT
- General Purpose Application
- Accuracy Class  $\pm 2.0\%$
- Compliance to EN 837 - 1 & IS 3624
- Available with double pressure measurement scale
- Dial Color & Customer Logo can be change as per requirement of customer.
- Warrantly: 12 Months

# Pitot Tube



## Applications

- Solid Brass Pitot tube is ideal with pressure gauge to measure water pressure at discharge points to achieve a highly uniform irrigation system.

## Functions

- Utilize this small, effective and easy tool to measure the velocity of moving water.
- Attach a pitot tube to a pressure gauge.
- Hold the tip of the pitot tube into the sprinkler's stream. Hold it at a distance equal to half the diameter of the nozzle.
- Avoid inserting the tip of the pitot tube into the bore of the nozzle, as this will skew your measurements.
- A word of warning: Using the pitot tube can get wet and messy. Have a towel handy in case you get sprayed.

# Pressure Gauge Valve



## Technical Specifications & Features

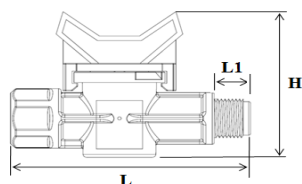
- ¼" BSP/ NPT male x Female threaded connection
- Max. Working Pressure: 6 Bar/ 85Psi
- One moving part only.
- Valve best suited to install underneath at each pressure gauge.
- Vibration of system do not trasfer to pressure gauge, as a result needle does not vibrate.
- Whenever required to see pressure, just open the valve and check line pressure.
- **In pressurized line, there is a feature to release pressure during valve closing and needle will smoothly Come back to zero position.**
- User friendly design allows smooth operation of knob.
- All Plastic parts are Chemical/Corrosion resistant, Color UV stabilized.

## Material Specification

| PART NO | PART NAME          | MATERIAL | Qty |
|---------|--------------------|----------|-----|
| 1       | Valve Body         | PPGF     | 1   |
| 2       | Valve Knob         | PPGF     | 1   |
| 3       | Valve Big O-ring   | EPDM/NBR | 1   |
| 4       | Valve Small O-ring | EPDM/NBR | 2   |

## Dimensions (mm)

| Size | L    | L1 | H  |
|------|------|----|----|
| 8mm  | 66.2 | 10 | 48 |



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*Creating a Green World*

# Aquaturf

Impact Pop-up Sprinklers



New

## Features

- Interchangeable, bayonet color coded nozzles
- No tools required to change nozzle.
- Heavy-duty plastic case with reinforced ribbed design for excellent gripping.
- Adjustable to full-circle or part circle
- Diffuser screw for fine droplets & throw control.
- Double-weighted arm for balance and smooth rotation
- No back splash during sprinkler running.
- Sand resistant pressure activated wiper seal.
- High Impact strength of pop-up top
- Excellent distribution uniformity

## Application

- Pop-up sprinkler for underground installation in landscaping, residential park, public lawn irrigation.

## Swing Joint

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



## Technical Specifications

- **End connections** : 1/2", 3/4" & 1" Male Threaded
- **Max. Operating Pressure**: 1/2" & 3/4" Swing Joint: 6 Bar 1" Swing Joint: 20 BAR
- **Material**: 1/2" & 3/4" Swing Joint: Polypropylene (PP) 1" Swing Joint: PVC
- Can be easily move in desired direction
- User friendly design allows smooth operation.
- Double O-rings to prevent leakages.
- Chemical/Corrosion resistant, Color UV stabilized.
- Industrial , chemical, turf & agriculture irrigation system, pool and spa application.

## Lateral Valves



New

## Technical Specifications

- Two part design
- Material : Acetal (POM)/PP
- Pressure Rating: 4 bar
- UV Resistant
- Smooth Knob movement.
- Barb designed for easy lateral pipe gripping without leakage at pressure.
- All combination of Lateral valves are as below:

|                    |                                  |                                     |
|--------------------|----------------------------------|-------------------------------------|
| <b>Barb x Barb</b> | <b>1/2" Male Thread x Barb</b>   | <b>3/4" Male Thread x Barb</b>      |
| 12mm x 12mm        | 1/2" Male Thread x 12mm          | 3/4" Male Thread x 12mm             |
| 12mm x 16mm        | 1/2" Male Thread x 16mm          | 3/4" Male Thread x 16mm             |
| 12mm x 20mm        | 1/2" Male Thread x 20mm          | 3/4" Male Thread x 20mm             |
| <b>Barb x Barb</b> | <b>3/4" Female Thread x Barb</b> | <b>Male Thread x Male Thread</b>    |
| 16mm x 16mm        | 3/4" Female Thread x 12mm        | 1/2" Male Thread x 1/2" Male Thread |
| 16mm x 20mm        | 3/4" Female Thread x 16mm        | 3/4" Male Thread x 3/4" Male Thread |
| 20mm x 20mm        | 3/4" Female Thread x 20mm        |                                     |



# Plastic Quick Coupling Valve and Key

¾" & 1"



## Features

- ¾" & 1" BSP/NPT male threaded Inlet Connection
- Glass Filled PP body & Base
- Rugged two piece designed valve.
- Specially designed grommet for no leakage at low pressure.
- Cover designed with click locking on lid
- For 70P & 71P QCV Models "Spiral Turn & Lock" key with ribbed gripping
- For 70PM & 71PM QCV Models "Push & Lock" key with Hex gripping
- Strong corrosion-resistant stainless steel spring prevents leakage.
- Green Polypropylene UV resistant Cap for durability.
- Specially designed for application in public areas.
- Operating Pressure Range: 0.25 to 6 bar
- Operating Range Flow Rate available in : ¾" QCV: 2.0 to 5.0 m<sup>3</sup>/h  
1" QCV: 4.0 to 10 m<sup>3</sup>/h

# Brass Quick Coupling Valve and Key

¾", 1" & 1½"

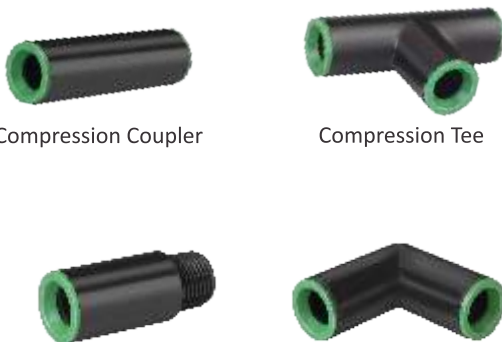


## Features

- ¾", 1" & 1½" BSP/NPT Female threaded Inlet Connection
- Brass/ Bronze body & Opener (Key)
- One piece QCV body design.
- Strong corrosion-resistant stainless steel spring prevents leakage.
- Yellow thermoplastic cover for durability over years.
- Stainless Steel Spring loaded covers for positive closing and protection of valves's sealing components.
- "Spiral Turn and Lock" key with inbuilt handle design for gripping Optional locking cover.

# Full Flow Drip Compression Fittings

½", ¾ & 1"



Compression Coupler

Compression Tee

Compression x MPT Adaptor

Compression Elbow

## Features

- Color Coded gripper for easy identification.
- Foster and easier to install, simply push drip tubing into fittings for tight connection and get unobstructed flow.
- Very tight fit with no tools, gluing or clamps required .
- Superb gripping of PE tubing, no slipping at high pressure and no leakage at low Pressure.
- Ultra sonic welded grippers for no leakage and longer life.
- Impact UV and Chemical Resistant .

## Applications

- In installation of landscape pipe for fogger system in green house
- Landscape drip irrigation system



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# Universal Adopter



## Features

- One end have two threads connection gives end user multi choice.
- Another end have either 1/2" or 3/4" as per requirement.
- Glass reinforced polypropylene material for socket strength.
- At higher pressure the socket will not come out from riser.
- Applying high torque during tightening, No cracks developed.
- UV & chemical resistant for durability.

## Technical Specifications

- Two Sockets available as per threads connection  
(3/4"/1") x 1/2"  
(3/4"/1") x 3/4"
- Max. working Pressure upto 6bar

# Sprinkler Locking Adopter & Key



## Features

- Adopter are design to stop sprinkler theft from the field.
- Installation of adopter on each riser protect each sprinkler.
- Key designed with special features, only to open sprinkler from the riser.
- Without key, sprinkler can not loosen from the riser.

## Technical Specifications

- Adopter: 20mm (ISO standard) x 1/2" female threaded
- Adopter: 20mm (ASTM standard) x 1/2" female threaded
- Max. Working Pressure 4 bar
- High grade PVC material for durability.
- UV & chemical resistant.

## Special Reinforced Nylon/PVC Flanges



## Features

- Material: Reinforced Nylon/ PVC.
- Threaded Socket: 3" & 4" BSP/ NPT Female threaded/Plain Socket.
- Flange dimensions suited for Standard: BS10 (Table D & E) ANSI Class 125/150, ISO 7001 (DIN), BS EN 1092.
- Max. working pressure 10 Bar.

## Threaded Elbow



## Threaded Tee



## Features

- Available in: 2", 2 1/2" & 3"
- Material : Reinforced Polypropylene
- Color : Black
- Smooth Flow and minimal pressure drop.
- UV Stabilized

# Sprinkler Saddle With Stabilizer



## Features

- Suitable for ½" & ¾" sprinkler installation at the riser stand.
- Stabilizer designed for excellent gripping in the field with minimal riser vibration.
- O-ring in saddle avoid leakage at minimum pressure.
- Fast installation and easy to use in the field.
- Saddle with SS ring and metal inserted thread bush as optional model.
- Polypropylene material gives excellent strength and flexibility to achieve excellent functionality.
- UV resistant material for long life.

## Technical Details

- Working pressure: 0.5 - 4 kg/cm<sup>2</sup>
- Pipe Size OD: 40mm/50mm/63mm/75mm
- Riser connection Size: ½" & ¾" Female threaded

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## PVC Micro Tubes



## Applications

- Orchards, Green Houses and Nurseries
- Micro Climate Control
- Drippers and Automation Application
- Sprinkler and Micro sprinkler Assembly

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## Double Layer Micro Tubes



## Features

- Working Pressure up to 6 Bar
- Color: White outer layer /Black inner layer and as per customer requirement
- Reduced water temperature and increased plant yield
- Rolled in 50m,100m, 200m,300m and 500m bundle or Cut length durable in wide range of climates
- Customized dimensions and tight tolerance
- UV Stabilized and oxidation resistance
- Tubes are resistant to saline water, acid and most agriculture fertilizer
- Low or medium density polyethylene material resin specially formulated to resist ESCR and kinking

## Warranty & Disclaimer

Automat products are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts, and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects in design or breach of warranty.

