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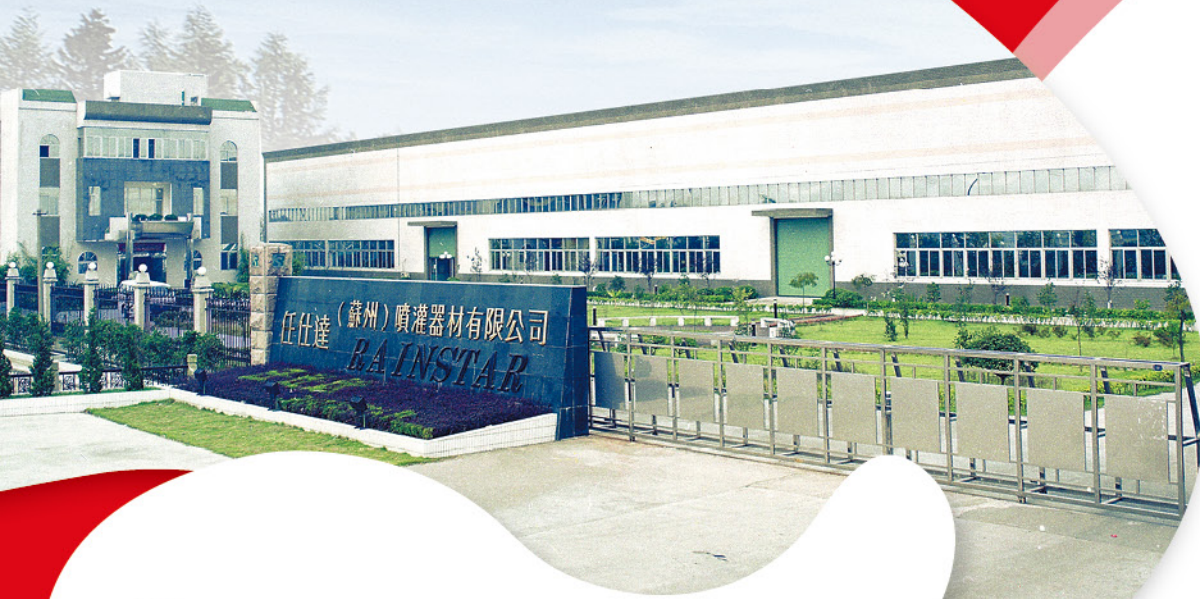
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Company Profile

Taking a glance back at 1977, Plastico used to be a small business unit that comprised of three employees. Over the last four decades, we've made great progress. We are now a well-organized corporate group with over 300 employees in both Taiwan and China. We want to thank all of our hard working employees as well as our customers who supported and helped us got here.

In order to attain our Vision:

"To be a unique provider of Gardening and Irrigation products worldwide"

As having restructured our organization since 1999, we have built up ever efficient working teams that include:

- A Holding Company in USA for General Management and Investment
- A Sales Office in Taipei providing delightful customer service
- An Independent R&D Department set up for more than two decades
- Three production bases located in Taiwan and China whose role focus on manufacturing, quality control and tooling design & making



Company Milestones



- 1977--** Plastico Corp. and Taiwan factory were established by our founder, Mr. Charlie Chou; same year, the factory was accredited with ISO 9002. Plastico's first PVC pipe connectors were introduced to the market.
- 1985--** Plastico's first oscillating products appeared on the market, thus began joint effort with Rain Bird on oscillating and drip irrigation products.
- 1990--** Plastico's first dripper products appeared on the market.
- 1993--** Plastico's first sprinkler valves emerged.
- 1994--** R&D Department was implemented.
- 1995--** "Rainstar (Suzhou) Sprinkler Equipment Co. Ltd", first factory in China was founded. Plastico's first Pop-Ups appeared on the market thus began to cooperate with Hunter for underground sprinklers and valves.
- 1998--** Plastico's first hose-end products appeared on the market, thus began to cooperate with Toro for hose-end and underground watering products.
- 2000--** Taiwan and China factories were accredited with ISO 9001 and ISO 9002 respectively.
- 2001--** Plastico's first rotor sprinklers were introduced.
- 2002--** Plastico's first irrigation controllers appeared on the market. The same year, "Charlie Chou Charity Foundation" was established.
- 2003--** Plastico's first pressure compensating drippers appeared on the market.
- 2008--** "New Star Irrigation Equipment Co. Ltd." second factory in China was founded.
- 2011--** Injection Molding Development Center was established in the second factory in China, thus named "Newstar Mold Technology Co. Ltd". First Y-Type Pressure Regulating Filter emerged.
- 2012--** Plastico's first Pressure Regulating System (PRS) Pop-ups appeared on the market.
- 2013--** Plastico's first Food/Medical grade connectors appeared on the market.
- 2014--** Plastico's first Full-Circle Sprinklers emerged.

Research & Development Department

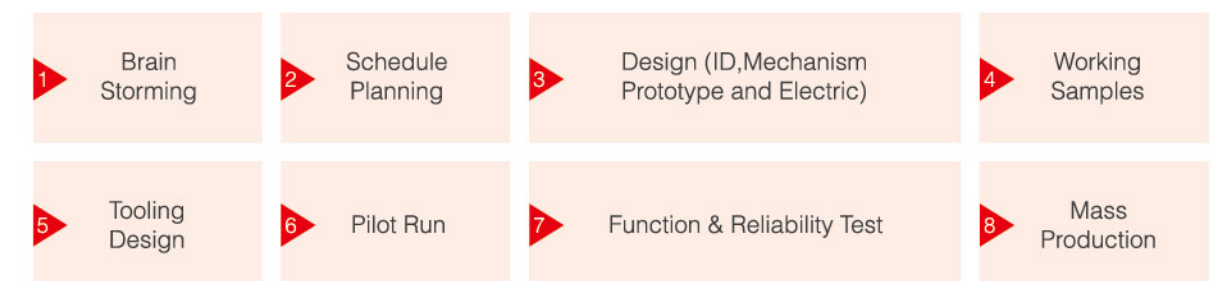


Plastico professional R&D and project management team offer customers the most innovative product design and the best quality services. From brain-storming to product-manufacturing, Plastico professional R&D team has connected with customers on various levels.

In addition to product development, Plastico also offers customers a more comprehensive product testing and recommendations based on our R&D and QC team's past experience. We treat customers just like family, holding nothing back.

Plastico currently holds more than 35 patents in United States, Europe, Taiwan and China. This is certainly a great achievement we take pride in. It is also a great measure to keep ourselves competitive in the market.

• Product Development Process



QC System & ISO 9001

Plastico has set a high standard in quality control system. We are constantly on a strict lookout for the verification of products' design, reliability, compatibility, safety requirements, as well as raw materials' qualification. From raw material qualification to production to delivery of products, we prioritize quality assurance above all. For this we are proud of our quality control system.

When it comes to mass production, we set up strict quality control procedures to ensure that all products and raw materials meet Plastico's high quality standard. Furthermore, in order to keep up with our high quality consistency, we conduct Ongoing/Outgoing Reliability Test (ORT) sporadically, to keep ourselves in check in the least expected times. Our unwavering spirit in the pursuit of high quality standard will not be compromised.

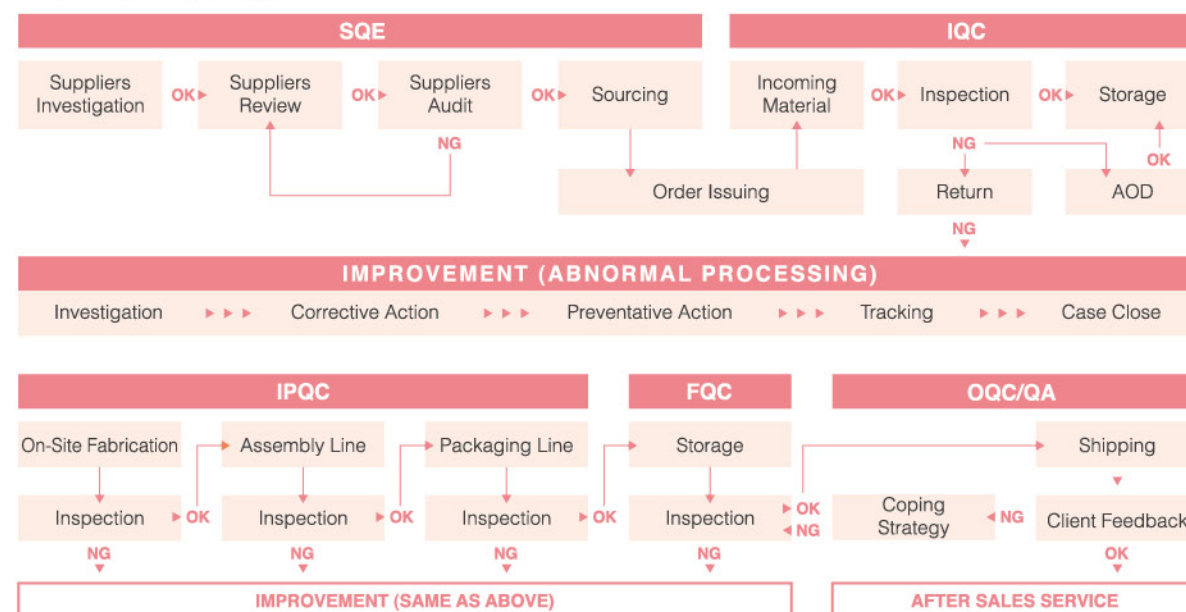
In Plastico Group, we are always looking for ways to boost the reliability of our products. We place great emphasis in quality improvement projects and activities. Whether it is product design, production process, quality control, or in areas of shipping, internal operation, document control, and after sales, we are constantly looking for improvement. Never satisfied, we will continue to try to attain perfection.

Plastico Group is committed to strive for the utmost excellence in quality of products and services. We understand that quality input in the work force translates into the quality of products; our Taiwan and China factories were awarded ISO 9001 in 1977 and 2000, respectively, from LRQA. Our quality stood the test of time, for our factories are annually audited by a third party inspector. Only through this rigorous means are we able to proudly declare that each part we manufacture always comes with the highest quality.

• ISO 9001



• Quality Control Process



Tooling Design & Making / Non-Standard Metal Parts Processing

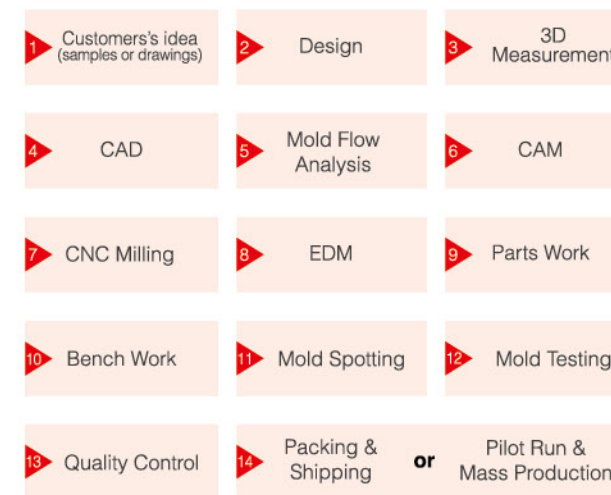
Since 1998, there has been a sharp increase in demand from our customer base. Our tooling team was dedicated to designing and manufacturing various molding customization. Over the years, we've gained great knowledge in the field. Not only did we make great strides in the technology, quality and our company bylaws, we also followed up with improved product design, processes, quality control and manufacturing processes to meet our customers' expectations.

In 2011, "Newstar Mold Technology Co. Ltd", subsidiary of Plastico Group in Suzhou, was established. Newstar Mold Technology specialized in precision plastic injection, mold design and fabrication. It played a critical role in raising our ability to provide a higher quality of products and services (2D/3D mold design, CAM, runner analysis, CNC processing, EDN processing, workbench assembly, and precision measurement equipment). We were also able to develop a more advanced SOP, SIP and quality control system for tooling manufacture.

Plastico specializes in working with various non-standard metal parts upon customers' drawings and request. We have more than 15 engineers and technicians in die-casting, injection molding, painting and machining, who are experts in their respective field. We are committed to enhancing the ability of our engineering team in order to match the cutting-edge demand of our customers.



• Tooling Design & Making Process Flow



• Non-Standard Metal Parts Development Process

Design

- Customer Requirements
- Providing Drawings or Specification

Pricing

- Cost Analysis (Manufacturing & Inspection Estimation)
- Job Analysis (Lathing, Milling, Grinding, Wire-Cutting, Drilling, etc.)

Production

- Sewing, Radial Drilling, CNC Internal External Grinder, Centerless Grinding, Gap-Bed Lathing, Sand Blaster
- CNC Vertical Machine Center, ZNC EDM, WEDM

Secondary Processing (Surface Finish)

- Anode Oxidation, Chrome Plating, Nickel Plating
- Blackening, TiAlN, Hot-Dip Galvanizing

Shipment

- Packaging & FQC/QA
- Warehousing or Delivery

A close-up photograph of vibrant green leafy vegetables, likely lettuce, growing in a white hydroponic system. The leaves are fresh and have a prominent vein structure.

Hydroponics

Hydroponics is the method of growing plants by using nutrient solution in a water solvent instead of soil. In the past couple years, we have seen explosive growth and wide acceptance in both mainstream agriculture and recreations, adapting to the use of hydroponics.

Hydroponic vegetation is grown under controlled environment without any outdoor exposure; therefore it is immune to weather conditions. Managed through a centralized control system which controls the nutrients needed in the feed water, humidity needed inside the greenhouse and fertilizer concentration, hydroponic vegetation is free from insects, disease and pollution.

Hydroponics is not restricted by geographic barriers. Farmers tend to favor growing exotic vegetables for they have a higher demand, and they offer a higher return value than non-exotic vegetables. With just a rudimentary set of dripper kit, they are capable of growing exotic vegetables as long as the environment is adjusted accordingly.

Through the use of hydroponics, even non-exotic vegetables are of higher quality compared to locally grown vegetables. Hydroponic vegetables typically exceed soil-grown vegetables in both flavor and nutrition; because they are constantly supplied with overflowing nutrients. Hydroponics is cleaner than growing in soil. Growers are able to adjust the nutrient feed for maximum growth and shortest yield. In other words, the yield of hydroponic farming is highly predictable, making it highly attractive.

Hydroponics has promising prospects for years to come. With changing weather patterns, a shift towards healthy living from consumers, and an ever-increasing demand for food, we shall expect more and more people to embrace hydroponics.

Micro Drip Irrigation

Drip irrigation is an irrigation method that saves water and fertilizer by allowing water to drip slowly to the roots of plants, either onto the soil surface or directly onto the root zone, through a network of valves, pipes, tubing and emitters. Plastico is dedicated to the development of various micro dripping products that supports our customers' needs.

Our Mission:

"Affordable drip irrigation with excellent performance for everyone"

*Standard Product Color Subjects to Change w/o Notice.



DRIPPERS

Adjustable Drippers



PD-0100

Pressure (PSI)	15	20	25
Flow (GPH)	0~8	0~10	0~11

PD-0111

Pressure (PSI)	15	20	25
Flow (GPH)	0~2.5	0~4.8	0~8

- Adjustable from 0~8 GPH (0~36 L/H)
- Operating Pressure: 10-25 PSI (0.7~1.7 BAR)
- Available for 1/4" barb
- Recommend Filter requirement: 150 mesh min

Snap Drip Emitters



PD-0301 (1 GPH / Black)

Pressure (PSI)	15	20	25
Flow (GPH)	1	1.3	1.5



PD-0302 (2 GPH / Green)

Pressure (PSI)	15	20	25
Flow (GPH)	2	2.5	3



PD-0304 (4 GPH / Red)

Pressure (PSI)	15	20	25
Flow (GPH)	4	5.3	6

- Flow available for 1, 2, 4 GPH (4, 8, 12 L/H)
- Operating Pressure: 10~25 PSI (0.7~1.7 BAR)
- Available for 1/4" barb
- Recommend Filter requirement: 150 mesh min
- Self-tapping barbed inlet for easy installation
- Twist-Locking feature designed to easily open for cleaning

Fixed Drippers



PD-0202

Pressure (PSI)	15	20	25
Flow (GPH)	2	2.5	3

- Flow available for 2 GPH (8 L/H)
- Operating Pressure: 10~25 PSI (0.7~1.7 BAR)
- Available for 1/4" barb
- Recommend Filter requirement: 150 mesh min

PC Emitters



PD-0305 (0.5 GPH / Red)

Pressure (PSI)	15	20	25
Flow (GPH)	0.5	0.55	0.63



PD-0310 (1 GPH / Black)

Pressure (PSI)	15	20	25
Flow (GPH)	1	1.1	1.2



PD-0320 (2 GPH / Green)

Pressure (PSI)	15	20	25
Flow (GPH)	2	2.2	2.2



PD-0340 (4 GPH / Brick Red)

Pressure (PSI)	15	20	25
Flow (GPH)	4	4.3	4.5

- Flow available for 0.5, 1, 2, 4 GPH (2, 4, 8, 16 L/H)
- Operating Pressure: 10~45 PSI (0.7~3.1 BAR)
- Available on 1/4" barb (inlet) and 2" (outlet)
- Recommend Filter requirement: 150 mesh min
- Four color-coded flow rate available for easy identification
- Used for various layout in residential garden
- Constructed of UV-resistant, durable plastic material to withstand the most adverse environmental conditions

Press-Fit Misters



PD-0403 (3 GPH)

Pressure (PSI)	15	20	25
Flow (GPH)	5.3	6	6.5



PD-0506 (6 GPH)

Pressure (PSI)	15	20	25
Flow (GPH)	7	7.8	8.4

- Flow available for 3 & 6 GPH (6 & 12 L/H)
- Operating Pressure: 15~50 PSI (1~3.4 BAR)
- Available for 1/4" barb
- Recommend Filter requirement: 150 mesh min
- Ideal for enhancing humidity in greenhouse environment

PC In-Line Dripper



PD-1801 (0.5 GPH)

Pressure (PSI)	15	20	25
Flow (GPH)	0.5	0.55	0.63

PD-1802 (1 GPH)

Pressure (PSI)	15	20	25
Flow (GPH)	1	1.1	1.2

- Flow available for 0.5 & 1 GPH (2 & 4 L/H)
- Operating Pressure: 10~45 PSI (0.7~3.1 BAR)
- Available for 1/4" barb
- Recommend Filter requirement: 150 mesh min
- Pre-set flow rate allows precise control watering for pots, hanging baskets and weaving through small garden beds

6-Outlet Drip Manifolds w/ Flow Control



PD-5101 (1/2" FNPT) PD-5102 (3/4" FNPT)

- Flow rate adjustable between 0~55 GPH per outlet
- Operating Pressure: 10~50 PSI (0.7~3.5 BAR)
- Inlet size: available for 1/2" & 3/4" FNPT
- Outlet size: 1/4" barb
- Recommend Filter requirement: 120-mesh min
- Convert shrub head to dripper system with flow control for each outlet
- Built with easily accessible filter to help prevent clogging
- Optional Pressure Regulator available

MINI ROTOR SPRINKLERS



PD-0600 • Full Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	13.8	15.7	17.6
Radius (FEET)	10.3	11.3	11.8



PD-0700 • Half Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	14.2	16	18
Radius (FEET)	6	6.6	7.5



PD-1600 • 1/4" Thread • 12 GPH, 15' Diameter

Pressure (PSI)	15	20	25
Flow (GPH)	13.8	15.8	17.4
Radius (FEET)	8.2	8.8	9.6



PD-1701 • 1/2" Thread • 30 GPH, 25' Diameter

Pressure (PSI)	15	20	25
Flow (GPH)	27	31	34.5
Radius (FEET)	14	15.5	16.4



PD-0865 • 4mm Thread

PD-1652 • 4mm Barb

Pressure (PSI)	15	20	25
Flow (GPH)	13.8	15.8	17.4
Radius (FEET)	8.2	8.8	9.6

Adjustable Jet Sprays



PD-0850 • Full Spray Pattern • 4mm Thread

PD-0852 • Full Spray Pattern • 4mm Barb

Pressure (PSI)	15	20	25
Flow (GPH)	0~21	0~24.5	0~28
Radius (FEET)	0~12.3	0~14.2	0~15.8



PD-0860 • Mist Sprinkler • 4mm Thread

PD-0862 • Mist Sprinkler • 4mm Barb

Pressure (PSI)	15	20	25
Flow (GPH)	5.0	5.7	6.3



PD-0950 • Half Spray Pattern • 4mm Thread

PD-0952 • Half Spray Pattern • 4mm Barb

Pressure (PSI)	15	20	25
Flow (GPH)	0~21	0~24.5	0~28
Radius (FEET)	0~8.8	0~10.5	0~12.1



PD-1050 • Quarter Spray Pattern • 4mm Thread

PD-1052 • Quarter Spray Pattern • 4mm Barb

Pressure (PSI)	15	20	25
Flow (GPH)	0~21	0~24.5	0~28
Radius (FEET)	0~8.8	0~10.5	0~12.1

MICRO JET SPRAYS

Micro Jet Sprays



PD-0800 • Full Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	11.5	12.8	13.8
Radius (FEET)	7.5	8.5	9.5



PD-0810 • Center Strip Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	11.2	13.3	15.4
Radius (FEET)	3.6	4	4.2



PD-0820 • Mist Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	5.0	5.7	6.3



PD-0900 • Half Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	11.5	12.8	13.8
Radius (FEET)	5.2	6.2	6.8



PD-1000 • Quarter Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	11.5	12.8	13.8
Radius (FEET)	5.4	6.7	7.2



PD-1100 • Full Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	16.5	19	20.5
Radius (FEET)	3.2	3.5	4



PD-1200 • Half Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	15	17	19
Radius (FEET)	3.2	3.4	4



PD-1300 • Quarter Spray Pattern

Pressure (PSI)	15	20	25
Flow (GPH)	18	22	25
Radius (FEET)	6.5	8.2	9.2

Adjustable Jet Sprays on Spike



PD-1301 • Adjustable Spray for 1/4" Barb

PD-1302 • Adjustable Spray for 1/4" Thread

PD-1303 • Adjustable Spray on Spike

Pressure (PSI)	15	20	25
Flow (GPH)	0~16	0~18.5	0~21
Radius (FEET)	0~2.3	0~2.5	0~2.7



PD-1401 • Adjustable 360° Jet for 1/4" Barb

PD-1402 • Adjustable 360° Jet for 1/4" Thread

PD-1403 • Adjustable 360° Jet on Spike

Pressure (PSI)	15	20	25
Flow (GPH)	0~14	0~17	0~19
Radius (FEET)	0~1.5	0~1.8	0~2



PD-1501 • Adjustable 180° Jet for 1/4" Barb

PD-1502 • Adjustable 180° Jet for 1/4" Thread

PD-1503 • Adjustable 180° Jet on Spike

Pressure (PSI)	15	20	25
Flow (GPH)	0~11.5	0~13.5	0~15
Radius (FEET)	0~2	0~2.5	0~2.8

Micro Jet Spray Sets



PD-5708

- Full Spray Pattern Jet Sprinkler
- 8" Riser
- Threaded Stake w/ Flow Control



PD-5709

- Half Spray Pattern Jet Sprinkler
- 8" Riser
- Threaded Stake w/ Flow Control



PD-5710

- Quarter Spray Pattern Jet Sprinkler
- 8" Riser
- Threaded Stake w/ Flow Control

FITTINGS & ACCESSORIES

Barb Fittings & Shut-Off Valves



Thread / Nut & Tail Adapters



FITTINGS & ACCESSORIES

Accessories



SecureBound Barb Fittings (13mm)



CVT Barb Fittings



Compression Fittings



PRESSURE REGULATING DEVICE

Anti-Siphon Adapters



- 3/4" female hose thread inlet x male hose thread outlet
- Prevent outside water from siphoning through faucet
- Fit all standard outdoor hose faucets
- Durable plastic construction grants long product life

In-Line Filters



- Snap-on model for direct connection to standard tap adapter
- In-line model with single barb inlet and outlet
- Hose thread type is installed between anti-siphon adapter and preset pressure regulator
- Protected from clogging and easily taken apart for cleaning

PRS Drip System Converters



Preset Pressure Regulators



- 3/4" female hose thread inlet x male hose thread outlet
- Easy installation with valve on drip system, sprinklers and misters
- No glue needed; no special tools required
- Ensure excessive water pressure does not damage drip system
- Made from durable UV resistant material

PRS Y-Type Filters



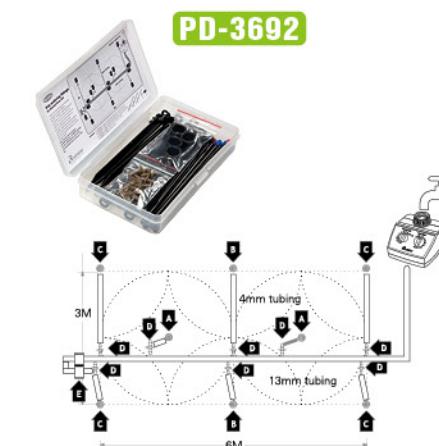
- Work with all valves and fit for drip irrigation systems
- Robust design and glass-filled PP construction
- Preset pressure regulator is integrated with 200 mesh screen
- Operating Pressure: 20~120 PSI
- Easy to clean or replace the filter
- Both MPT and BSP thread gauge are available



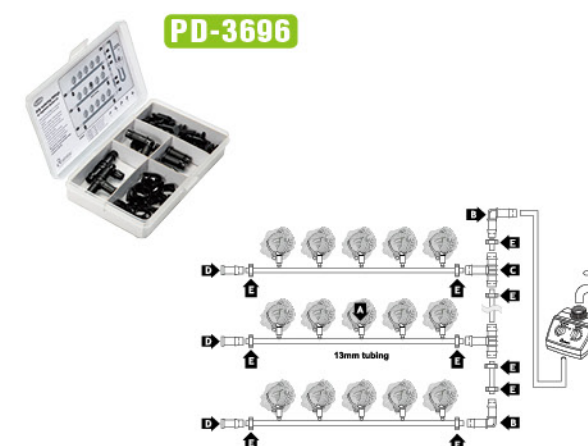
DRIPPER KITS



- A-1: PW-6155 Digital Timer 1pc
- A-2: w/o Timer
- B: PD-8205 BSP Anti-Siphon Valve 1pc
- C: PD-8425 Pressure Regulator 1pc
- D: PD-2543 Thread Adapter 1pc
- E: PD-9243 BSP In-line Filter 1pc
- F: PD-2704 FPT Swivel Adapter -4mm 1pc
- G: PD-2513 FPT Swivel Adapter -13mm 1pc
- H: PD-3300 Hole Punch 1pc



- A: PD-2004 Barb Joiner 1pcs
- B: PD-3020 End Stop (8-Shaped) 1pcs
- C: PD-5708 Micro Jet Spray Set -Full 1pcs
- D: PD-5709 Micro Jet Spray Set -Half 1pcs
- E: PD-5710 Micro Jet Spray Set -Quarter 1pcs



- A: PD-0301 Snap Drip Emitter 20pcs
- B: PD-2213 Barb Elbow 2pcs
- C: PD-2113 Barb Tee 2pcs
- D: PD-2913 End Plug 3pcs
- E: PD-3913 Locking Clamp 13pcs



- A: PD-1403 Adjustable Jet w/ Spike 6pcs
- B: PD-3204 4mm PE Tubing / 10m 1pcs
- C: PW-3584 Snap-On x 1/2" MPT Spike Base 1pcs
- D: PD-5101 6-Outlet Drip Manifolds 1pcs
- E: PD-8425 Pressure Regulator 1pcs



Green Roof Green Wall

Green roof is a roof of a building that is covered with vegetation and soil, planted over a waterproofing membrane. Additional layer may be implemented for root barrier, drainage and drip irrigation. Green wall, sometimes known as living wall or vertical gardens, is a wall covered with greenery that includes soil. They are becoming more and more popular in urban settings.

Studies show green roofs and walls on commercial and residential buildings provide an array of sustainable benefits. It helps infuse the air with oxygen and reduce carbon dioxide levels for overall improved quality, which helps reduce urban heat island effect. Green wall vegetation helps refresh air, slow air movement and acts as a substrate for pollution to settle out and detoxify.

Green roof and green wall are colorful, fragrant, and striking. Not only are they aromatic, they are aesthetically pleasing. There is no limit to the creative possibilities that can be painted with a broad palette of plants. Combo that with a wide selection of drip products and pop-up sprinklers that are available, your artistic expression is made to last.

In a year-long study at the University of Sheffield, researchers found out that installing green wall to existing property gives tremendous value. It keeps indoor temperature more static throughout summer and winter months. This greatly reduces energy costs for both heating and cooling costs, because plants and soil protect building walls from UV radiation, temperature fluctuations, and high winds. It is estimated that green roof raises the values of real estate by an average of 7%.

Studies have shown that having a view of greenery increases productivity in workplace. According to reports carried out at American and European Universities, by just having a view of plants in a working environment gives positive physiological responses. This means employees would perform better which would result in increased earnings for a company.

Underground Water System

For every lush landscape you see, expect an impressive water system that lies underneath. The water system is indispensable to the sustainability and livelihood of the landscape; the same can be said for your garden.

Depending on the type of grass and plants you have in the garden, you may need to provide a more constant source of water for them. Install your own underground water system today and save tremendous costs!!!

*Standard Product Color Subjects to Change w/o Notice.



POP-UP SPRINKLERS

Professional Pop-ups



- Heavy-duty UV-resistant plastic and wiper seal for long product life under various water pressure
- Strong stainless spring to ensure reliable retraction
- Ratcheting riser design for quick pattern alignment
- Special wiper seal design allows system to handle low water pressure as proficiently as high
- Compatible with popular female-threaded nozzles
- 1/2" female pipe thread inlet
- Operating water pressure range: 15~70 PSI (1.0~4.8 BAR; 103~482 kPa)

Specification Guide

EXAMPLE: **PL-0451**

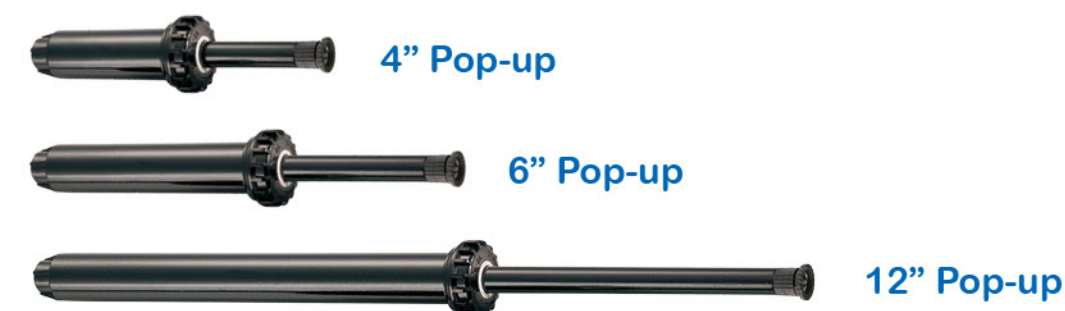
Product Category	Pop-up Height	Model	Pattern
PL Series	02= 2" Pop-up 03= 3" Pop-up 04= 4" Pop-up 06= 6" Pop-up	Professional	<div>0= Flush Plug 1= Full-Circle 2= Half-Circle 3= 1/4 Full-Circle 4= 3/4 Full-Circle 5= Center Strip 6= End Strip</div> <div>7= 15' VAN 9= Body Only A= 8' S-VAN B= 10' S-VAN C= 12' S-VAN D= 15' S-VAN E= 17' S-VAN</div>

- Check Valve Feature Available

Model Number List

2" Pop-up		3" Pop-up		4" Pop-up		6" Pop-up	
PL-0250	PL-0257	PL-0350	PL-0357	PL-0450	PL-0457	PL-0650	PL-0657
PL-0251	PL-0259	PL-0351	PL-0359	PL-0451	PL-0459	PL-0651	PL-0659
PL-0252	PL-025A	PL-0352	PL-035A	PL-0452	PL-045A	PL-0652	PL-065A
PL-0253	PL-025B	PL-0353	PL-035B	PL-0453	PL-045B	PL-0653	PL-065B
PL-0254	PL-025C	PL-0354	PL-035C	PL-0454	PL-045C	PL-0654	PL-065C
PL-0255	PL-025D	PL-0355	PL-035D	PL-0455	PL-045D	PL-0655	PL-065D
PL-0256	PL-025E	PL-0356	PL-035E	PL-0456	PL-045E	PL-0656	PL-065E

PRS Pop-ups



- Pressure regulating feature maintains constant 30 PSI outlet pressure which minimizes misting and fogging caused by higher pressure and increases nozzle efficiency
- Heavy-duty UV-resistant plastic and wiper seal for long product life under various water pressure
- Strong stainless spring to ensure reliable retraction
- Ratcheting riser design for quick pattern alignment
- Compatible with popular female-threaded nozzles
- 1/2" female pipe thread inlet
- Operating water pressure range: 15~70 PSI (1.0~4.8 BAR; 103~482 kPa)

Specification Guide

EXAMPLE: **PL-0431**

Product Category	Pop-up Height	Model	Pattern
PL Series	04= 4" Pop-up 06= 6" Pop-up 12= 12" Pop-up	PRS	<div>0= Flush Plug 1= Full-Circle 2= Half-Circle 3= 1/4 Full-Circle 4= 3/4 Full-Circle 5= Center Strip 6= End Strip</div> <div>7= 15' VAN 9= Body Only A= 8' S-VAN B= 10' S-VAN C= 12' S-VAN D= 15' S-VAN E= 17' S-VAN</div>

- Check Valve Feature Available

Model Number List

4" Pop-up		6" Pop-up	12" Pop-up
PL-0430	PL-0437	Will be Available Soon	Will be Available Soon
PL-0431	PL-0439		
PL-0432	PL-043A		
PL-0433	PL-043B		
PL-0434	PL-043C		
PL-0435	PL-043D		
PL-0436	PL-043E		

POP-UP SPRINKLERS

Streamline Pop-ups



- Compact and slim design for easier installation; ideal for small lawn and shrub area
- Heavy-duty UV-resistant plastic and wiper seal for long product life under various water pressure
- Strong stainless spring to ensure reliable retraction
- Ratcheting riser design for quick pattern alignment
- Compatible with popular female-threaded nozzles
- 1/2" female pipe thread inlet
- Operating water pressure range: 15~70 PSI (1.0~4.8 BAR; 103~482 kPa)

Specification Guide

EXAMPLE: **PL-0471**

Product Category	Pop-up Height	Model	Pattern
PL Series	02= 2" Pop-up 04= 4" Pop-up	Streamline	<div> 0= Flush Plug 1= Full-Circle 2= Half-Circle 3= 1/4 Full-Circle 4= 3/4 Full-Circle 5= Center Strip 6= End Strip </div> <div> 7= 15' VAN 9= Body Only A= 8' S-VAN B= 10' S-VAN C= 12' S-VAN D= 15' S-VAN E= 17' S-VAN </div>

- Check Valve Feature Available

Model Number List

2" Pop-up		4" Pop-up	
PL-0270	PL-0277	PL-0470	PL-0477
PL-0271	PL-0279	PL-0471	PL-0479
PL-0272	PL-027A	PL-0472	PL-047A
PL-0273	PL-027B	PL-0473	PL-047B
PL-0274	PL-027C	PL-0474	PL-047C
PL-0275	PL-027D	PL-0475	PL-047D
PL-0276	PL-027E	PL-0476	PL-047E

SHRUB SPRAY HEADS & NOZZLES

Features		Shrub Spray Head		Flood Bubbler	Adjustable Nozzle	Adjustable Nozzle		Sprinkler Surround	Adjustable S-Nozzle	
										
Water Pattern	Full Circle	PL-1301	PL-1401	PL-1500 (Filter can be purchased separately)		PL-1701	PL-1801	PL-1900 • Dimensions: I.D.2 1/2" / O.D. 3 3/4" / Height 2 3/4" • Safe from lawn mower and whipper snipper damage • Helps control grass growing over the Pop-up head		
	1/2 Circle	PL-1302	PL-1402			PL-1702	PL-1802			
	1/4 Circle	PL-1303	PL-1403			PL-1703	PL-1803			
	3/4 Circle	PL-1304	PL-1404			PL-1704	PL-1804			
	CST		PL-1405			PL-1705	PL-1805			
	EST		PL-1406			PL-1706	PL-1806			
	SST		PL-1407				PL-1807			
	Square		PL-1408				PL-1808			
	Body Only	PL-1309	PL-1409							
Throw Distance	8' (S)VAN				PL-1608	PL-17xx Series • 5/8", 28 UN thread • 15' throw distance	PL-18xx Series • 3/4", 28 UN thread • 12' throw distance			PL-1908
	10' (S)VAN				PL-1610					PL-1910
	12' (S)VAN				PL-1612					PL-1912
	15' (S)VAN				PL-1615					PL-1915
	17' (S)VAN				PL-1617					PL-1917
Performance Chart of Pop-ups & Spray Nozzles		Spray Pattern			Throw Distance		Coverage		Pressure	GPM Output
		 Full Circle		12' Radius		360°	15 PSI	3.0	10'-12' / 17'	
		 Half Circle		12' Radius		180°	15 PSI	1.5	10'-12' / 17'	
		 Quarter Circle		12' Radius		90°	15 PSI	0.8	10'-12' / 17'	
		 Three Quarter Circle		12' Radius		270°	15 PSI	2.3	10'-12' / --	
		 Center Strip		4' X 26'		--	15 PSI	2.0	--	
		 End Strip		4' X 13'		--	15 PSI	0.45	--	
		 Side Strip		4' X 26'		--	15 PSI	0.89	--	
		 Square		18' X 18'		--	15 PSI	0.89	--	
		Adjustable Nozzle		360° adjustment of 8'/10'/12'15'/17' radius coverage, compatible with female nozzle						
		Adjustable Nozzle w/ Stop		360° adjustment of 8'/10'/12'15'/17' radius coverage, rotational trigger at 370°, compatible with female nozzle						

IMPACT ROTOR & SPRINKLERS

Pop-Up Rotor Sprinklers	PL-2100		Water Pressure		Radius		Output		<ul style="list-style-type: none">• Extra durable, rotating sprinkler ideal for medium to large lawn• Adjustable Radius (25~40 ft) and adjustable pattern (20~360°)• Inlet: 1/2" Female NPT on bottom or at side• Resists clogging from surface reclaimed water or wells• Radius reduction screw breaks water into smaller droplets for uniform watering				
		30 PSI		33 FT		2.0 GPM							
		40 PSI		37 FT		2.2 GPM							
		50 PSI		40 FT		2.5 GPM							
Pop-Up Rotor Sprinklers	PL-2500		Water Pressure		Radius (Feet)		Max Spacing (Feet)		GPM Output		Nozzles		<ul style="list-style-type: none">• Extra durable, rotating sprinkler ideal for medium to large lawn• Adjustable Radius (25~40 ft) and adjustable pattern (20~360°)• Inlet: 1/2" or 3/4" Female NPT on bottom or 1/2" Female NPT at side• Resists clogging from surface or reclaimed water and wells• Weighted spray arm controls stream with precision, preventing side splash onto buildings and walkways• Reducing Spray Distance up to 25% by using spray reduction screw• 5 color-coded nozzles included for even water distribution:<ul style="list-style-type: none">*A (Orange): Quarter circle water pattern*B (Red): One-Third circle water pattern*C (Black): Half circle water pattern*D (Blue): Three-Quarter circle water pattern*E (Green): Full circle water pattern
		30 PSI	32'		43		1.5		A				
			33'		44		2.0		B				
			34'		46		3.9		C				
			38'		49		3.8		D				
			39'		49		5.8		E				
	40 PSI	35'		46		1.8		A					
		37'		47		2.2		B					
		39'		47		3.6		C					
		41'		49		4.2		D					
		43'		53		6.5		E					
	50 PSI	36'		46		2.3		A					
		40'		48		2.5		B					
		41'		49		4.0		C					
		42'		53		5.1		D					
		45'		53		7.5		E					
Impact Sprinklers	PL-3100		Water Pressure		Radius		Output		<ul style="list-style-type: none">• Durable high-impact plastic construction with minimal metal parts• Grooved deflector provides even spray on all directions• Adjustable stream length w/ control dial (20~41 ft) offers great flexibility• Weighted guide arm controls stream with precision, preventing side splash onto buildings and walkways• Diffuser screw breaks into smaller droplets for greater uniform water distribution• 1/2" male pipe connection				
		15 PSI		29 FT		2.7 GPM							
		25 PSI		36 FT		3.5 GPM							
		35 PSI		39 FT		4.2 GPM							
		45 PSI		41 FT		4.7 GPM							
	PL-3400		Water Pressure		Radius		Output		<ul style="list-style-type: none">• Durable high-impact plastic construction with minimal metal parts• Rotating butterfly spinner designed to naturally redirect outflow of water, providing improved water distribution• Covers up to 40 ft diameter• Full-circle spray pattern• 1/2" female iron pipe thread inlet				
		15 PSI		28 FT		2.6 GPM							
		25 PSI		35 FT		3.4 GPM							
		35 PSI		38 FT		4.1 GPM							
		45 PSI		40 FT		4.6 GPM							
Full-Circle Sprinkler	PL-3500		Performance Chart								<p>The Full-Circle Sprinkler is able to equip a variety of color-coded nozzles and deflector inserts. It offers great customization while delivering precise, uniform water distribution.</p> <ul style="list-style-type: none">• Deflector specially designed to optimize uniform distribution• Consistent performance at high temperature and below freezing• Springs and pins made from corrosion resistant stainless steel• UV stabilizer protects sprinkler from the sun• Sprinkler comprised of drive unit, body, deflector, nozzle; each piece may be purchased separately• Compatible with Plastico Sprinkler Case• 3 deflector types, 3 nozzle types available for selection• Pressure: 25~60 PSI (1.7~4.2 BAR); flow rate: 1.12~3.64 GPM		
		Deflector	Nozzles	Stream Height (Inch)	Flow Rates at Standard Pressures (GPM) Throw Radius Given Nozzle (FEET)								
					25 PSI	35 PSI	45 PSI	50 PSI					
		6" Black	0.094"	23~27	1.12 18	1.34 20	1.52 22	1.60 22					
			0.109"	31~39	1.63 20	1.97 22	2.22 24	2.33 24					
			0.133"	35~43	2.28 23	2.77 26	3.13 27	3.29 28					
		12" Red	0.094"	59~78	1.12 31	1.34 34	1.52 34	1.60 35					
			0.109"	59~90	1.65 31	1.97 34	2.24 38	2.35 38					
			0.133"	59~90	2.31 33	2.75 36	3.11 38	3.27 39					
		22" Green	0.094"	66~90	1.13 30	1.33 33	1.50 34	1.60 34					
			0.109"	66~90	1.64 32	1.97 34	2.23 35	2.36 35					
0.133"			70~98	2.30 35	2.73 37	3.10 39	3.27 40						

SOLENOID VALVES

1" Sprinkler Valves



1" Sprinkler Valves w/ FC



Valve Protective Box



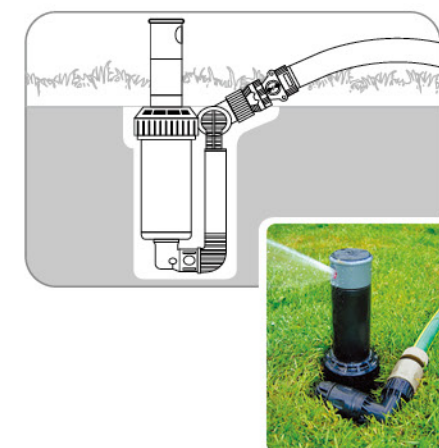
- Compatible with most popular sprinkler controllers
- Sealed plastic over molding technique for waterproof construction
- Internal bleed, manual override for manual On/Off
- High flow with low pressure loss
- Flow control handle for water flow adjustment and manual shut-off
- DC solenoid specification : 24 VAC, 50/60 Hz, in-rush current 0.35 AMP, holding current 0.25 AMP

- Lid made from high quality UV stabilized plastic, made to withstand direct sunlight
- Dimensions:
 - * Lid - 4" diameter
 - * Base - 6 3/4" diameter
 - * Height - 6 1/8" diameter

SWING SNAP POP-UP ADAPTERS



Application Example



- Swing Snap adapters are able to thread onto any brand of lawn sprinkler head
- Their versatile connection helps set up any pop-up anywhere you want
- Connector can be swung in any direction for easy hose attachment
- Save costs by making your own Swing Snap Sprinkler

This patented Swing Snap Adapter delivers water from your garden hose down to the sprinkler's water inlet at the bottom of the sprinkler head. The male hose connector swivels horizontally and vertically so that the hose can be snapped on from any direction. It works with all brands of hose connectors. When not in use, merely swing the top down to lie flat on the ground. Then, you can mow right over it.

Individually sold sprinkler heads come in all sizes and patterns. But, they all have either a 3/4" inlet for the larger heads or a 1/2" inlet for the smaller heads. The three sizes offered above cover the vast majority of the heads available for individual purchase at local retail stores. Grab a Swing Snap Adapter, and build an immediate sprinkler system!!



Home Growing

In the recent years, people are starting to realize that our diet directly impacts our health. This notion generated a demand for more fresh produce from markets. While some paid higher price to get it, others were inspired to look for alternatives to obtain it. Home growing is one of which that is growing in popularity.

Growing a garden no longer requires a huge yard anymore. In fact, for many people who live in urban neighborhoods, home growing has become the most viable option. Despite having limited space, people are able to grow their own fresh food through adopting a simple drip system or even a more advanced all-in-one indoor planter with the latest technology, such as Bluetooth, Wifi and App. This vertical growing trend is not only a practical solution, it is a revolution.

Household hydroponic gardens that can be incorporated into kitchens are something to look out for. Due to their portable nature, they can easily be placed in a kitchen setting without hassle. As the hydroponic industry further advances, we shall see hydroponic system evolve to self-contained appliances that are hard-wired, plumbed in and look just like a dishwasher. As more people recognize the tremendous benefits of growing their own food, the desire for these types of hydroponic systems built for household use will increase.

In the next few years, home growing shall become more prevalent in our lives. We will surely see more commercial hydroponic farms established to meet the ever-increasing demand for local, fresh produce.

Hose-End Products

Once your garden is planted, nothing is more important than watering it. Keep your garden properly watered for the biggest harvests and the most beautiful blooms while conserving the precious resource. We offer a vast array of Hose-End products for you to select from. Due to their versatile nature, you can tailor the products to suit your liking.

Start Tending Your Garden, Your Way, Today!!

*Standard Product Color Subjects to Change w/o Notice.






















HOSE CONNECTORS & ADAPTERS

Hose Connectors		Hose Adapters	Hose Connectors w/ Shut-Off
Hose Mender	Hose Connector	Accessory Adapter	Snap-On Connector w/ Dual Shut-Off
			
PW-2100 1/2" PW-2110 3/4"	PW-2120 1/2" PW-2130 3/4"	PW-2180 3/4" NH PW-2185 3/4" BSP	PW-2220 3/4" Snap-On BSP PW-2221 1" Snap-On BSP PW-2222 1" x 3/4" Snap-On NH
Hose Connector w/ Water Stop	M.T. Hose Connector	Tap Adapter	Hose Connector w/ Shut-Off
			
PW-2140 1/2" PW-2150 3/4"	PW-2160 3/4" NH PW-2165 3/4" BSP	PW-2190 3/4" NH PW-2195 3/4" BSP PW-2196 1/2" BSP PW-2197 1" BSP PW-2198 3/4" x 1/2" PW-2199 1" x 3/4"	PW-2240 3/4" NH PW-2245 3/4" BSP
F.T. Hose Connector w/ Water Stop	F.T. Hose Connector	2-Way / 3-Way Hose Coupler	Threaded Connector w/ Dual Shut-Off
			
PW-2170 3/4" NH PW-2175 3/4" BSP	PW-2171 3/4" NH PW-2176 3/4" BSP	PW-2200 PW-2210	PW-2250 3/4" NH PW-2255 3/4" BSP PW-2256 1" BSP PW-2257 1" x 3/4" BSP

SPRINKLERS on BASE / SPIKE

- High-impact plastic impulse sprinkler has adjustable distance control dial (20~41ft radius), able to easily adjust to various patterns
- Lawn sprinkler, watering up to 25ft radius, features multiple plastic arms with adjustable nozzles for better water pattern and speed control
- Durable high quality plastic spike base (PW-3220/3225/3320/3325/3330/3335/3340/3345)
- Heavy-Duty plastic "H" base (PW-3200/3205/3350/3355/3380/3385)

Impact Sprinklers		Lawn Sprinklers				Sprinkler Accessories	
On Base		3-Arm on Spike		Butterfly Type on Spike		Rotary Sprinkler Head	
							
PW-3200	PW-3205	PW-3320	PW-3325	PW-3330	PW-3335	PW-3520	PW-3530
NH	Snap-On	NH	Snap-On	NH	Snap-On	3-Arm	2-Arm
On Spike		2-Arm on Spike		2-Arm on Base		Plastic "H" Base	
							
PW-3220	PW-3225	PW-3340	PW-3345	PW-3350	PW-3355	PW-3560	PW-3565
NH	Snap-On	NH	Snap-On	NH	Snap-On	NH	Snap-On
		3-Arm on Base				2-Way Spike Base	
							
		PW-3380	PW-3385			PW-3580 NH x 1/2" FPT PW-3581 NH x 1/2" MPT PW-3582 NH x 3/4" MPT PW-3583 NH x 1/2" NH(M) PW-3584 Snap-On x 1/2" MPT PW-3585 Snap-On x 1/2" FPT	
		NH	Snap-On				

MULTI-PATTERN GARDEN NOZZLES

Trigger Nozzle Series



PW-4000 (NH)
PW-4050 (Snap-On)

- 7 spray patterns (jet, mist, shower, flat, vertical, soaker, cone)
- Adjustable front spray head for delicate spray
- Ergonomic trigger and grip for more comfortable handle
- Adjustable rear knob for volume control
- Instant lock-on trigger for continuous spray
- High-strength and impact resistant plastic



PW-4100 (NH)
PW-4150 (Snap-On)

- Adjustable front spray head for shower and/or mist spray
- Ergonomic trigger and grip for more comfortable handle
- Adjustable rear knob for volume control
- Instant lock-on trigger for continuous spray
- Made from impact-resistant high-strength plastic

Spray Nozzle Series



PW-4025 (Snap-On)

- Rotational nozzle head to adjust among 3 water patterns
- Swivel side knob allows full control of flow rate and complete shut-off
- Streamlined design for ergonomic handle



PW-4200 (NH)
PW-4250 (Snap-On)

- 7 spray patterns (jet, mist, shower, flat, vertical, soaker, cone)
- Adjustable front spray head for delicate spray
- Ergonomic trigger and grip for more comfortable handle
- Instant lock-on trigger for continuous spray



PW-4300 (NH)
PW-4350 (Snap-On)

- Adjustable front spray head for shower and/or mist spray
- Adjustable front spray head for delicate spray
- Ergonomic trigger and grip for more comfortable handle
- Instant lock-on trigger for continuous spray

Twist Nozzle Series



PW-4700 (NH)

- Adjustable water pattern from fine spray to full stream to complete shut-off
- Made from impact-resistant high-strength plastic



PW-4710 (Snap-On)

- Adjustable water pattern from hard jet to fine spray
- Made from impact-resistant high-strength plastic
- Versatile utility for car, house or garden



PW-4720 (Snap-On)

- Snap-on twist nozzle
- Adjustable water pattern from fine spray to full stream
- Made from impact-resistant high-strength plastic



PW-4730 (Snap-On)

- Adjustable water pattern from hard jet to fine spray to complete shut-off
- Streamlined design for ergonomic handle

Pistol Nozzle Series



PW-4810 (NH)
PW-4815 (Snap-On)

- Adjustable water pattern from jet to full spray
- Hold-open button for continuous spraying
- Molded grip for cushioned comfort
- Rear-trigger shut-off function

GARDENING HOSE-END KITS



PW-5000 (NH)
PW-5050 (BSP)
Quick Connect Set

- PW-2160: 3/4" MHT Hose Connector
- PW-2170: 3/4" FHT Connector w/ Water Stop
- PW-2180: Accessory Adapter
- PW-2190: 3/4" Tap Adapter



PW-5100 (NH)
Trigger Nozzle w/
Quick Connect Set

- PW-2160: 3/4" MHT Hose Connector
- PW-2170: 3/4" FHT Connector w/ Water Stop
- PW-2180: Accessory Adapter
- PW-2190: 3/4" Tap Adapter
- PW-4000: 7 Pattern Trigger Nozzle



PW-5500 (Snap-On)
Starter Set

- PW-2120: 1/2" Hose Connector
- PW-2140: 1/2" Hose Connector w/ Water Stop
- PW-2199: 1" x 3/4" Tap Adapter
- PW-4710: Twist Nozzle



PW-5600 (Snap-On)
Trigger Nozzle w/
Quick Connect Set

- PW-2120: 1/2" Hose Connector
- PW-2140: 1/2" Hose Connector w/ Water Stop
- PW-2180: Accessory Adapter
- PW-2199: 1" x 3/4" Tap Adapter
- PW-4000: 7 Pattern Trigger Nozzle

BATTERY OPERATED CONTROLLERS



PW-6200 (NH)
PW-6201 (NH)
PW-6250 (BSP)
PW-6251 (BSP)

- Connects to 3/4" Hose Bibb or Y-Ball Valve
- Inlet: 3/4" FHT (Female Hose Thread)
- Outlet: 3/4" MHT (Male Hose Thread)
- Powered by one 9V battery
- Large LCD provides outstanding visuals
- Able to freely switch between pre-programmed and manual watering
- Two extra pre-set programs for customized combinations (T1 & T2)
- Max. & Min. Operating pressure: 120 / 10 PSI
- Compatible w/ optional Rain Sensor



PW-6300 (NH)
PW-6301 (NH)
PW-6350 (BSP)
PW-6351 (BSP)

- Connects to 3/4" Hose Bibb or Y Ball Valve
- Inlet: 3/4" FHT (Female Hose Thread)
- Outlet: 3/4" MHT (Male Hose Thread)
- Powered by one 9V battery
- 12 Frequency and Duration settings provide customized combinations
- Both programmed and manual watering options available
- Precise watering controlled by Solenoid Valve
- Low battery LED indicator
- Time Delay Function lasts up to 12 hours a day
- Max. & Min. Operating Pressure: 120 / 10 PSI
- Compatible w/ optional Rain Sensor



PW-6400 (NH)
PW-6450 (BSP)

- Connects to 3/4" Hose Bibb or Y Ball Valve
- Inlet: 3/4" FHT (Female Hose Thread)
- Outlet: 3/4" MHT (Male Hose Thread)
- Powered by two AA batteries
- 12 Frequency and Duration settings provide customized combinations
- Valve automatically closes at low battery
- Low battery LED indicator
- Time Delay Function lasts up to 12 hours a day
- Max. & Min. Operating Pressure: 145 / 15 PSI



PW-6500 (NH)
PW-6550 (BSP)

- Connects to 3/4" Hose Bibb or Y-Ball Valve
- Inlet: 3/4" FHT (Female Hose Thread)
- Outlet: 3/4" MHT (Male Hose Thread)
- Main unit powered by ambient light; no battery required
- Remote control, powered by two AAA batteries, lasts for at least 12 months
- Remote control able to control two pre-set units
- Controls up to four pre-programmed watering cycles for various garden layout
- Able to freely switch between pre-programmed and manual watering
- Max. & Min. Operating pressure: 145 / 10 PSI
- Compatible with optional 3/4" to 1" adapter and 3/4" hose connector



Watering System Integrated with Technology

Today's technology is constantly changing our lives, for the better; irrigation is no different. Having made great progress in the last decade, it is still rapidly evolving, making extraordinary difference with the use of technology. Technology-incorporated irrigation is often regarded as precision or smart irrigation.

The world faces significant challenges due to water scarcity, increasing crop production, and climate change. For this reason, the irrigation industry is always on the lookout for ways to cope with the challenges. Having developed cutting-edge products such as smart sprinkler controllers, solar timers, and soil moisture sensors, the irrigation market offers tremendous utility to its consumers. By adopting smart irrigation, farmers can maximize yields by deciding where and when to irrigate through sensors or water flow controllers.

One of the most important objectives in smart irrigation is saving water. The soil moisture sensor provides immense help in measuring soil moisture and maintaining the optimal amount of water in the soil, which is important in non-agricultural applications as it minimizes water waste, protects local water resources from runoff, saving on energy and fertilizer costs.

There is a new way to manage residential irrigation –the connected yard. Powered by a new breed of smart sprinkler controllers, the connected yard has features that go beyond what traditional controllers offer, including Wi-Fi connectivity, remote monitoring and operation via mobile device, automatic weather adjustments and more. These help set up new efficiencies for business professionals to do their business. Consumers are also looking for more connected home; the connected yard is undoubtedly a great fit.

Smart Irrigation Products



SMART IRRIGATION CONTROLLERS

App Control BT Timer

SI-1000 (NH)
SI-1050 (BSP)

The most compact-sized smart blue-tooth timer for garden watering and micro dripping. This newly designed tap timer is simply powered by two AA batteries and easy-to-program dial settings. The ball valve mechanism provides consistent performance and increased reliability for home and garden hose and drip irrigation systems.

- **Easy Access:** Turn on and off water, set up watering schedule, with the free app, from the comfort of your couch. No more getting out in the rain, fumbling with keypads in the dark, or fighting through swarms of bugs or spider webs to change your programs.
- **Easy Installation:** connects directly to your faucet and hose. No tools necessary.
- **Long Battery Life:** Efficient design allows two batteries (sold separately) to last up to 2000 on/off cycles. Conveniently displays battery status in mobile app.
- **Weather Forecast:** The app automatically syncs to your local weather. Obtain updated weather for reference. Modify the watering program or change to manual watering in just a few taps.

Rain Collection Watering Kit

SI-2000 (NH)
SI-2050 (BSP)

- **Easy Installation:** connects directly to your faucet and hose. No tools necessary. Works under low water pressure so a water tank is also supported (ideal for watering containers during vacation).
- **Long Battery Life:** Efficient design allows two batteries (sold separately) to last up to 2000 on/off cycles. Conveniently displays battery status in mobile app.
- **Time & Money Savor:** The tap timers will automatically water sequentially once they are programmed via the app installed on your smart phone or tablet. The programmable controller allows you to schedule precise watering schedules in seconds. Connectors and tubing specially designed for steady flow and efficient watering.
- **Easy Jump-In:** The SI-1100/1150 kit has everything you need to get started with drip irrigation the smart way, for your urban oasis.
- **The Kit includes:**
 - SI-1000/1050 x 1 (App Control BT Timer)
 - PD-8325/8425 x 1 (25 PSI Pressure Regulator)
 - PD-2404/2504 x 1 (3/4" Swivel Adapter)
 - PD-2004 x 2 (4mm Barb Joiner)
 - PD-2104 x 20 (4mm Barb Tee)
 - PD-2204 x 2 (4mm Barb Elbow)
 - PD-0310 x 20 (1 GPH PC Dripper)
 - PD-2804 x 10 (4mm Tubing Mounting Clip)
 - PD-2904 x 1 (4mm Tubing Hole Plug)
 - PD-3104 x 20 (4mm Tubing Holding Stake)
 - PD-3204 x 1 (4mm PE Tubing – 10m)

INDOOR GROWING SYSTEM

Cloud Garden Planters

SI-3000

Imagine vegetables and fresh herbs grown in your home, year-round. With this cloud garden planter, you can grow fresh herbs, vegetables, salad greens, flowers and more. All controlled by free app installed on your smart phone or tablet. Share this experience with family and friends any time! The smart indoor garden uses water, LED light and nutrients to grow plants. It's natural, healthy and delicious.

- **Garden year-round:** Grow fresh herbs, vegetables, salad greens, flowers and more with temperature control.
- **Up to eight plants** can be grown at once. Plants that grow in water grow five times faster than those in soil.
- **Extra area** to freely grow various sprouts at the same time.
- **High-performance 25-Watt LED lighting system** provides the full spectrum needed for both vegetative and flowering growth, enabling greater farming output and less energy consumption.
- **Five kinds of seed pod kits** available; each kit contains eight growing basket, pre-seed grow sponges, growing domes and 3 oz. liquid nutrients.
- **Wi-Fi gateway** and touch screen control panel available soon.

ACCESSORIES

BT Plant Sensor

SI-9100

Monitor the plants' wellbeing directly from your smartphone. SI-9100 is a sensor to be "planted" close to a plant, indoor or outdoor, in a pot or in open ground. It precisely measures, in real time, the parameters that are crucial for the growth and good health of plants: soil moisture, temperature and light intensity.

- Free App for both iOS and Android
- Operating Temperature: 5~50°C
- Batteries: CR2032, battery life lasts up 6 months
- Dimensions: 120.5 mm x 24.5 mm x 12.5 mm
- Low Battery LED Indicator
- Frequency Range: 2420 MHz / 2480 MHz
- Range: 60', line-of-sight
- Water resistant, for indoor and outdoor use

Wi-Fi Gateway

SI-9200

By using the free App, you will always have your garden under control, wherever you are. By tapping the screen, you can call up the important information required and adapt all settings for your garden work to your liking, remotely.

- Free App for both iOS and Android
- Operating Temperature: 5~50°C
- Power: DC +5V 0.5A
- Dimensions: 60 mm x 60 mm x 20 mm
- LED Indicator
- Wi-Fi: 2.4GHZ 802.11 B/G/N
- Range: 100', line-of-sight
- MCU: ARM 32bit



We started a mission with a clear sense of purpose: To make the world greener. Aiming to go beyond the status quo, we envisioned nothing short of greatness. Despite facing enormous challenges, we have never forgotten what we set out to do.

For our cause, we had built a sturdy foundation bottom-up. By 1995, we had already acquired 20 years of experience, we had gotten all the equipment and resources at our disposal, and we had developed a strong line of watering and irrigation products. We had also gained a strong support from our skilled employees. Thus we had been awarded for our professionalism and efficiency with ISO 9001: 2000 certification. With the quest of achieving greatness in mind, Rainstar was born.

What distinguishes us from the rest of the field -or the garden- is the promise that we have made to ourselves, and our clients: To remain human. At Rainstar, we believe our corporate personality and attitude are what set us apart from others. In time, our manufacturability shall make a difference.

Rainstar is not just a competitive brand, it is an ergonomic brand. We have all the qualities of humanity: We care about our suppliers, our buyers, our end-users, and above all, we care about making the world greener.