



DRIP IRRIGATION



Irrigated with
**RECYCLED
WATER**

Do Not
Drink

LANDSCAPE SOLUTIONS



SPA AND POOL



GPH

VOLUME 2

ELECTRICAL

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VERSATILITY

There are many manufacturers of irrigation products in our industry, but few that are committed to the importance of delivering top quality, competitively priced solutions that help build successful irrigation projects. At GPH, our mission is to make the selection of drip irrigation components easier and more profitable for our design customers, wholesale distributors and contractors.

Commercial landscape solutions is in our blood, our core values speak for themselves: superior service, competitive pricing and an unrelenting commitment to quality. We strive with every order to showcase these values, it is the calling card we want to be defined by..



MADE IN THE USA

100% of our products are designed and manufactured right here in the USA. We start with the highest quality engineering grade materials while following through with a top notch quality assurance program.



QUALITY

Our veteran team understands landscape drip needs and can help you in specification of the right components for your project. Custom Products Available: Don't be afraid to ask for something special. Our complete in house capabilities allow us to custom manufacture products or components to meet your needs. We back up every sale with our Handshake Guarantee: If you're not 100% satisfied with our products or our service, we'll refund your money no ifs, ands, or buts. Just return any new or unused part within 90 days of the shipping date and we'll refund the full purchase price without any restocking fees.

Our lower pricing comes from saving on overhead and marketing, not cutting corners in manufacturing.



SPECFLOW THREADED

The new GPH SpecFlow GPST emitters are designed to perform in the harshest environments, bringing commercial grade ruggedness to drip irrigation while providing an unmatched CV ratio. This means they are turn key and maintenance free, no more call backs due to inconsistent flows from one emitter to another. From the integrated self sealing screen which eliminates the need for Teflon tape, to its industry first chloramine stabilized silicone diaphragm the SpecFlow GPST is setting the standard in performance and reliability in drip irrigation. Our patent pending screen keeps debris from contaminating the emitter by increasing the size of the inlet by 250%. The GPH screen was engineered with an o-ring molded into the face and a chamfer molded into the body to seal on both sides to ensure a leak free installation with out the use of Teflon tape.



FEATURES

- PC - GPH's GPST Technology Ensures Total Pressure Compensation from 10 psi to 50 psi. Without the Problems Associated with Other Brands of Check Valve Emitters.
- High Velocity Self-Cleaning Mechanism purges at every start-up ensuring reliable operation and less maintenance with out a hydraulic penalty.
- ½" FIPT Inlet x Diffuser Cap Outlet.
- Self sealing screen eliminates need for Teflon tape.
- ISO compliant CV performance and wide pressure compensation range (10-50 psi) delivers more consistent emission uniformity over a wide range of inlet pressures and undulating terrain.
- Individually color coded for easy identification; flow rate molded into the cap.
- Engineering grade plastic and chloramine stabilized silicone diaphragm provide reliable performance in the toughest UV and chemical conditions.
- Ergonomic design eases installation fatigue.



How to Order: GPST05D

Color:

- **D** (Desert Camo)
- **M** (Mulch Camo)
- **R** (Reclaimed Purple)
- **blank** (Std Colors)

Flow:

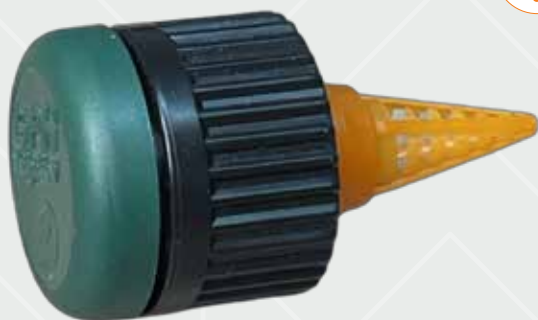
- **05** (1/2 GPH, Brown Cap)
- **1** (1 GPH, Black Cap)
- **2** (2 GPH, Green Cap)
- **4** (4 GPH, Yellow Cap)
- **6** (6 GPH, Tan Cap)
- **8** (8 GPH, Gray Cap)

EMITTERS



SPEC-CHECK™ PC CHECK VALVE EMITTERS

The Spec-Check utilizes spring check valve technology to create a true check valve with a 6.5 psi cracking pressure. This saves water by eliminating low head drainage for up to a 15 foot elevation change. The combination of the Spec-Check along with GPH's GPST ensures that your system will operate at the highest level of performance and efficiency. Our patent pending screen keeps debris from contaminating the emitter by increasing the size of the inlet by 250%. Its cone shape is designed to fit inside of a fitting while eliminating the restriction of flow as seen in competitive product. The GPH screen was engineered with an o-ring molded into the face and a chamfer molded into the body to seal on both sides to ensure a leak free installation with out the use of Teflon tape.



FEATURES

- PC - GPH's GPST Technology Ensures Total Pressure Compensation from 10 psi to 50 psi. Without the Problems Associated with Other Brands of Check Valve Emitters.
- Spec-Check's 6.5 psi Internal Check Valve Helps Prevent Drainage and Maintains up to a 15' Column of Water.
- Anti-Siphon Operation Prevents Contamination from Back Flowing into Line.
- Eliminates Low Head Drainage.



How to Order: GPSTCV05D

Color:

- **D** (Desert Camo)
- **M** (Mulch Camo)
- **R** (Reclaimed Purple)
- **blank** (Std Colors)

Flow:

- **05** (1/2 GPH, Brown Cap)
- **1** (1 GPH, Black Cap)
- **2** (2 GPH, Green Cap)
- **4** (4 GPH, Yellow Cap)
- **6** (6 GPH, Tan Cap)
- **8** (8 GPH, Gray Cap)



SPECFLOW MICRO

The SpecFlow Micro emitters bring commercial grade ruggedness to on-line drip irrigation. The SpecFlow Micro is designed for years of trouble free performance. Ensuring this is its integrated velocity self-flush cycle and its industry-first chloramine stabilized silicone diaphragm. The SpecFlow Micro sets the bar for single outlet emitters.



FEATURES

- Velocity Self-Cleaning Mechanism purges at every start-up ensuring reliable operation and less maintenance with out a hydraulic penalty.
- Available with 10-32 Threaded or 1/4" Barbed Inlets and Diffused or Barbed Outlets.
- ISO compliant CV performance and wide pressure compensation range (10-50 psi) delivers more consistent emission uniformity over a wide range of inlet pressures and undulating terrain.
- Color coded for easy flow identification.
- Engineering grade plastic and chloramine stabilized silicone diaphragm provide reliable performance in the toughest UV and chemical conditions.
- Ergonomic design eases installation fatigue.



OPERATING RANGE

- Flow rates : 0.5GPH - 8GPH
- Pressure Compensating: 10-50 psi
- Filtration 80 Mesh

How to Order:

GXBC051032M

Color:

- **D** (Desert Camo)
- **M** (Mulch Camo)
- **R** (Reclaimed Purple)
- **blank** (Std Colors)

Inlet:

- **1032** (Micro Thread)
- **blank** (1/4" Barb)

Flow:

- **05** (1/2 GPH, Blue Base)
- **1** (1 GPH, Black Base)
- **2** (2 GPH, Red Base)
- **4** (4 GPH, Yellow Base)
- **6** (6 GPH, Tan Base)
- **8** (8 GPH, Gray Base)

Outlet:

- **C** (Diffuser Base Black)
- **blank** (1/4" Barb)

EMITTERS



SPECFLOW SL SERIES

The SpecFlow SL Series emitters bring ISO compliant CV pressure compensation to the SL configuration. The series was designed to fill the need for a top quality pressure compensating ½" FIPT inlet x ¼" barbed outlet configuration. Engineered with an integrated self sealing screen which eliminates the need for teflon tape. Performance guaranteed with the industry-first chloramine stabilized silicone diaphragm. The SpecFlow SL Series answers the call for a commercial grade threaded emitter.



FEATURES

- Velocity Self-Cleaning Mechanism purges at every start-up ensuring reliable operation and less maintenance without a hydraulic penalty.
- Self sealing screen eliminates teflon tape.
- ISO compliant CV performance and wide pressure compensation range (10-50 psi) delivers consistent emission uniformity over a wide range of inlet pressures and undulating terrain.
- Color coded for easy flow identification.
- Engineering grade plastic and chloramine stabilized silicone diaphragm provide reliable performance in the toughest UV and chemical conditions.



OPERATING RANGE

- Flow rates: 0.5GPH - 2GPH
- Pressure Compensating: 10-50 psi
- Filtration: 80 Mesh

How to Order:

GSL220D

Color:

- **D** [Desert Camo]
- **M** [Mulch Camo]
- **R** [Reclaimed Purple]
- blank [Std Colors]

Flow:

- **05** [1/2 GPH, Brown]
- **1** [1 GPH, Black]
- **2** [2 GPH, Red]



HIFLOW BUBBLERS

Pressure Compensating Full-Circle Bubblers irrigate tree, shrub and flower areas where pressure compensation is required. Deep watering without runoff. SpecFlow Micro sets the bar for single outlet bubblers.



FEATURES

- Self sealing screen eliminates need for teflon tape
- Low flow rates allow water to be absorbed as needed
- Also available in Adjustable Flow version.
- Reduces runoff
- Flow will not fluctuate at pressures between 20 and 70 psi
- Maintains even flow
- Corrosion-proof plastic and rubber construction for long life
- Ergonomic design eases installation fatigue

OPERATING RANGE

- Flow: 0.25 to 1.00 GPM
- Spacing: 1 to 3 feet
- Pressure: 20 to 70 psi

How to Order:

GPCB25D

Color:

- **D** (Desert Camo)
- **M** (Mulch Camo)
- **R** (Reclaimed Purple)
- **blank** (Std Colors)

Flow:

- **25** (1/4 GPM)
- **50** (1/2 GPM)
- **1** (1 GPM)
- **A** (Adjustable)

BUBBLERS



SPEC-CHECK™ PC CHECK VALVE BUBBLERS

The Spec-Check™ utilizes spring check valve technology to create a true check valve with a 4.5 psi cracking pressure. This saves water by eliminating low head drainage for up to a 9 1/2 foot elevation change. The combination of the Spec-Check™ along with GPH's GPCB ensures that your system will operate at the highest level of performance and efficiency.



FEATURES

- PC - GPH's GPCB Technology Ensures Total Pressure Compensation from 20 psi to 70 psi. Without the Problems Associated with Other Brands of Check Valve Emitters.
- Spec-Check's 4.5 psi Internal Spring Check Valve Helps Prevent Drainage and Maintains Up to A 9.5' Column of Water.
- Anti-Siphon Operation Prevents Contamination from Back Flowing into Line.
- Eliminates Low Head Drainage.



OPERATING RANGE

- Flow: 0.25 to 1 GPM
- Spacing: 1 to 3 feet
- Pressure: 20 to 70 psi

How to Order: GPCBCV25D

Color:

- **D** (Desert Camo)
- **M** (Mulch Camo)
- **R** (Reclaimed Purple)
- **blank** (Std Colors)

Flow:

- **25** (1/4 GPM)
- **50** (1/2 GPM)
- **1** (1 GPM)
- **A** (Adjustable)



STREAMFLOW BUBBLERS

When precision is required in a micro spray bubbler, the StreamFlow delivers. Flow and radius is controlled simply by turning the cap. Spider-like pattern adjusts from 0 - 3 feet at 30 psi. Our StreamFlow Bubblers allow the designer to choose from 90°, 180° or 360° patterns.



FEATURES

- Simple twisting cap control for flow and radius adjustment
- 12 configurations allow for easy customization
- Manufactured from UV stabilized engineering grade plastics
- Ergonomic design eases installation fatigue
- Your choice of inlet options: Barbed, 10-32 Micro Thread or ½" FIPT



OPERATING RANGE

- Flow: 0 - 2 GPM
- Spacing: 1 to 3 feet
- Pressure: 15 to 30 psi

How to Order:

GSBX1800251M

Color:

- **D** [Desert Camo]
- **M** [Mulch Camo]
- **blank** [Std Colors]

Inlet:

- **025** [1/4" Thread]
- **1032** [Micro Thread]
- **050** [1/2" FIPT]

Flow:

- **90** [degrees]
- **180** [degrees]
- **360** [degrees]

BUBBLERS



sTREETM NOZZLE

The sTREETM Nozzle was conceived by an expert Arborist with a drive to irrigate trees in the best possible way. That passion was carried through in the engineering, development and testing of the product. The sTREETM has a 3ft throw with a 30° trajectory. It is fully pressure compensating at 0.5gpm between 18 and 80 psi. We even designed for air resistance and potential turbulence inside the nozzle to produce the most reliable and efficient irrigation device for trees in any landscape environment.

The goal is to provide just enough supplemental irrigation to maximize growth on young trees and to keep older, established trees healthy while preventing rot by not spraying the trunk directly, inspired the concept for the sTREETM. For the first several months after planting, most of a tree's roots are still within the original root ball, with some roots beginning to grow beyond this area. The root ball and the surrounding soil should be kept evenly moist to encourage healthy root growth. Flooding this root ball by installing "deep" watering devices is inefficient and may cause fatal harm.



FEATURES

- Fits any Rainbird™ style pop up
- Standard fixed spray screen to help eliminate clogging, included
- Easy to read, large directional arrow molded into nozzle cap for precise adjustment.
- Eliminates Low Head Drainage.

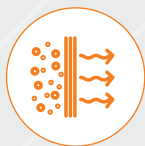
OPERATING RANGE

- Flow: 0.25 GPM – 1 GPM
- Spacing: 1 to 3 Feet
- Pressure: 18 to 80 psi

Part Number	Description
GT25	.25 GPM
GT50	.50 GPM
GT100	1 GPM



DRIP ACCESSORIES



JARTOP BASKET FILTER

The GPH family of filtration products provides solutions to the most challenging commercial drip irrigation applications. We manufacture the body out of a 14 Izod High Impact Polymer to provide unmatched durability. The screen is made from stainless steel mesh utilizing the first in our industry diagonal matrix technology. Our screen technology filters at a more efficient rate while reducing pressure loss as contamination is collected. We support the screen with a copper infused cage to help eliminate fungal growth, a common problem in secondary filtration.



FEATURES

- Diagonal Matrix Screen
- Copper Infused Reinforced Frame on Screen
- Pressure activated inlet seal
- Industries largest Filtration Area



OPERATING RANGE

- Flow: .1 GPM - 34 GPM

Maximum Flow in a 3/4" and 1" Filter:

- 3/4" - 22 gpm
- 1" - 34 gpm

Part Number	Description
GJT-075	3/4" GPH ProFlow Jar Top Filter
GJT-075R	3/4" GPH ProFlow Jar Top Filter with Reclaimed Top
GJT-100	1" GPH ProFlow Jar Top Filter
GJT-100R	1" GPH ProFlow Jar Top Filter with Reclaimed Top
ProFlow Jar Top Filter with Regulators	
GJT-075SR30	3/4" GPH ProFlow Jar Top Filter with 30 psi SureReg
GJT-075RSR30	3/4" GPH ProFlow Jar Top Filter with Reclaimed Top with 30 psi SureReg
GJT-100SR30	1" GPH ProFlow Jar Top Filter with 30 psi SureReg
GJT-100RSR30	1" GPH ProFlow Jar Top Filter with Reclaimed Top with 30 psi SureReg
GJT-075SR40	3/4" GPH ProFlow Jar Top Filter with 40 psi SureReg
GJT-075RSR40	3/4" GPH ProFlow Jar Top Filter with Reclaimed Top with 40 psi SureReg
GJT-100SR40	1" GPH ProFlow Jar Top Filter with 40 psi SureReg
GJT-100RSR40	1" GPH ProFlow Jar Top Filter with Reclaimed Top with 40 psi SureReg
GJT-075SR50	3/4" GPH ProFlow Jar Top Filter with 50 psi SureReg
GJT-075RSR50	3/4" GPH ProFlow Jar Top Filter with Reclaimed Top with 50 psi SureReg
GJT-100SR50	1" GPH ProFlow Jar Top Filter with 50 psi SureReg
GJT-100RSR50	1" GPH ProFlow Jar Top Filter with Reclaimed Top with 50 psi SureReg



PROFLOW BASKET FILTER SERIES

AVAILABLE IN

- JarTop basket filter
- JarTop basket filter with 30GPM High Flow Regulator

BENEFITS

- Double sealed threaded top ensures leak free operation.
- “No Spill Lip” feature ensures that the dirt and debris does not fall out of the basket filter element when you remove it for any reason.
- Rugged design incorporates four Buna N x-rings for leak-free performance and is rated up to 150 psi.

Pressure Regulating



ADDITIONAL FEATURES

- Efficient Design – Combines filtration and pressure regulation in one compact unit.
- Increases Reliability – Fewer connection points means less chance of leaking.
- Reduces Costs – Combined parts mean less assembly time, and compact size means smaller valve boxes.



DRIP ACCESSORIES



“TOUGH AS NAILS” TUBING STAKE

We are thrilled to introduce you to our latest innovation in drip irrigation technology: the ‘Tough as Nails’ tubing stake! Drip hose is designed to last years but after a few months of the expansion and contraction phenomenon, porpoising of the tubing tends to occur. This not only detracts from the aesthetic of the landscape, exposed drip hose is a potential tripping hazard and suffers from premature replacement as it is potentially damaged by exposure without ground cover. Our new GOTS and replaces the old galvy/pvc coated stake. It’s so tough, With an 1.5” radius it can replace 12” rebar J-hooks when used to hold down 1” and smaller PVC pipe.

Our ‘Tough as Nails’ stake is made from Leed Certified 100% recycled plastic wrapping a 9” galvanized nail, ensuring it can be driven into the hardest, most rocky soil. After years of bent staples it is designed for the most grueling conditions. It’s perfect for those who want to keep their irrigation system in place.

This stake comes with a lifetime warranty, so if it ever fails to hold your tubing in place, we’ll send you a replacement stake and a trained ninja to install it for you. So, don’t settle for a wimpy, run-of-the-mill staple. Upgrade to the ‘Tough as Nails’ tubing stake and use a stake that won’t bend, stays in place and holds the tubing in place.



FEATURES

- 9” galvanized nail spine, high density stake
- Available in Brown or Black.
- Easy to install with any hammer, in most soil types
- Extra eyelet for ¼” distribution placement.
- Designed to hold hose over the lifetime of the irrigation system
- UV Resistance provides protection from harshest environments.
- Compatible up to 1” Pipe (1.350 OD) with the reinforced stabilizer hook.



Part Number	Description
GOTS140900	9”, Black, Tough as Nails Tubing stake, with galvanized nail
GOTS140900-BR	9”, Brown, Tough as Nails Tubing stake, with galvanized nail



SUREREG™ PRESSURE REGULATOR

SureReg™ ½" & 1" Inline 30, 40 and 50 psi Pressure Regulators

APPLICATIONS

GPH SureReg™ pressure regulators maintain a constant outlet pressure even with varying inlet pressures. What makes the SureReg™ stand apart is our proprietary pressure sensing technology that eliminates full inlet line pressure from damaging downstream components which has historically been a massive issue in commercial landscape applications. It looks different because it is different.



FEATURES

- **Reliable Performance** - eliminates pressure spikes not caught by external sensing pressure regulators Variety - offered in 30,40 and 50 psi regulator kits
- **Flexibility** - can be installed anywhere on the irrigation system to reduce pressure, above grade or below grade
- **Ease of Installation** - Easy to use threads and compact in size.

DIMENSIONS

- **1/2" Model:** 2.9 in length x 2.25 width x 1.25 in height
- **1" Model:** 2.95 in length x 2.25 width x 1.25 in height ½" MIPT



- **Operating Range:**
1/2" Flow Range: .1 to 6 gpm
1" Flow Range: .1 to 30 gpm
- **Operating Pressure:**
15 psi to 148 psi
- **Water Temperature:**
33°F up to 110°F
- **Ambient Temperature:**
33°F up to 125°F

MODELS

- SR30-05 - ½" 30 psi inline Pressure Regulator
- SR40-05 - ½" 40 psi inline Pressure Regulator
- SR50-05 - ½" 50 psi inline Pressure Regulator
- SR30-100 - 1" 30 psi inline Pressure Regulator
- SR40-100 - 1" 40 psi inline Pressure Regulator
- SR50-100 - 1" 50 psi inline Pressure Regulator

Part Number	Preset Operating Pressure	Maximum Inlet Pressure	Flow Range	Inlet Size	Outlet Size
SR30-05	30 psi	148 psi	.1 - 6 gpm	1/2" MIPT	1/2" FIPT
SR40-05	40 psi	148 psi	.1 - 6 gpm	1/2" MIPT	1/2" FIPT
SR50-05	50 psi	148 psi	.1 - 6 gpm	1/2" MIPT	1/2" FIPT
SR30-100	30 psi	148 psi	.1 - 30 gpm	1" MIPT	1" FIPT
SR40-100	40 psi	148 psi	.1 - 30 gpm	1" MIPT	1" FIPT
SR50-100	50 psi	148 psi	.1 - 30 gpm	1" MIPT	1" FIPT

DRIP ACCESSORIES

**COMBINATION DRIP FLUSH VALVE / INDICATOR HEAD**

This product combines the function of a drip flush valve, with a highly visible pop-up nozzle (orange and purple) to give maintenance persons a visual indication of the drip zone pressurization. The pop-up feature allows for the maintenance persons to quickly locate the flush valves. As the drip system pressurizes the pop up that the indicator head is installed on acts as a flag. This product also has a manual flush. To flush simply hold down the button on top of the indicator nozzle. Flush for as long as needed and simply release the button when finished. As the system shuts off the sprinkler retracts and the nozzle will sit flush.

- Available standard orange and reclaimed purple
- Compatible with Rainbird or Toro nozzles



Part Number	Description
GDFN	Drip Flush Nozzle, Rain Bird style female threads, Orange in color.
GDFN-T	Drip Flush Nozzle, Rain Bird style female threads, Orange in color.
GDFN-R	Drip Flush Nozzle, Rain Bird style female threads, Purple in color.
GDFN-T-R	Drip Flush Nozzle, Toro style male threads, Purple in color.



EMITTER OUTLET CHECK VALVE

A bug cap with a check valve. Our EOCV will prevent insect intrusion and back siphoning by checking the line pressure up to 3 feet of head.



FEATURES

- Unbreakable PVC construction.
- Compatible with 1/4" Micro Tubing or 1/4" emitter outlets.

How to Order: GEOCV125

For Tubing:

- 125 - 1/8" (0.125" OD)
- 220 - 1/4" (0.220" - 0.250" OD)



PLASTIC STAKE

The 6" Micro Tubing Stake firmly supports tubing 0.187" OD, 0.220" OD and 0.250" OD. Manufactured from UVR engineering grade plastic to ensure performance in the harshest soil applications. The two slots allow for use with 1/8" and 1/4" PE or Vinyl tubing. Its also designed with a built in hole punch to aid in emitter installation. This stake does it all.



FEATURES

- Works with all Micro / Distribution tubing sizes
- Professional grade quality
- Built in hole punch

How to Order: GOTS20400B

Color:

- **B** (Black)
- **blank** (Brown)

DRIP ACCESSORIES

**GOOF PLUGS**

These well designed goof plugs fill unused or mis-punched holes. The barbed end keeps the goof plugs in place while prohibiting flow.



How to Order:
GGP250

FEATURES

- Plugs misplaced or unneeded punctures in supply tubing
- Two sided, plugs 0.187" [$\frac{3}{16}$ "] and 0.250" [$\frac{1}{4}$ "] size hole

**HOSE PUNCH**

Compact ergonomically designed hole punch designed for use with PE Supply Hose and Tubing. Brightly colored blue makes it easy to spot on the job site or in the toolbox.



How to Order:
GHP250

FEATURES

- Punches correct size hole for all emitters
- Works great on all PE Hose and Tubing
- Designed to ease the installation of hundreds of emitters



G FLEX RISER

The G Flex Risers are bendable. It is adjustable to a 45° bend and it will hold its form even under pressure they allow you to tailor the flow pattern of each outlet to match your real world applications. The G Flex Risers can be positioned to eliminate problems associated with water running down the length of the riser, bypassing the root zone and killing the plants. It can also be bent in an “S” pattern holding emission devices out of muddy slurry in on grade applications. Perfect your wetting pattern as you see fit by simply bending our risers to match your requirements.



FEATURES

- Patent Pending design allows for the outlet side of the riser to be bent and held in place ensuring that the water emits near the root ball and does not travel down the length of the hose missing the required irrigation area.
- 100% customizable in the field so each emitter can be held exactly where it needs to be.
- Holds the emitter off the ground and out of the slurry in on grade applications.
- Allows for the riser to be bent and held at any angle in above grade applications.
- Not to exceed 50 psi
- Color options available in black, brown and purple



How to Order: GFIH12ABR

Hose Color:

- **BR** (Brown)
- **R** (Reclaimed)

Assembly:

- **A** (Assembled w/ GPST2)
- **blank** (No Emitter)

Length:

- **6, 12, 18, 24, ... 120** (inches)
- **Custom Lengths Available**

RISERS



IH RISER

A flexible PVC riser that is pre-assembled with [2] ½" MIPT male adapters. It gives when kicked or stepped on unlike a traditional riser. It is ideal for slopes, medians and high traffic areas. Its the "unbreakable" riser. The material cost alone are less pre-assembled than purchased separately in parts. Pre-assembly also reduces installation costs by up to 50%! Also comes pre-assembled with the option of a GPST ½" thread x diffuser cap emitter which makes for the most rugged drip irrigation install in the industry.



FEATURES

- Pre-assembled with two black ½" MIPT UVR male adapters.
- Color options available in black, brown and purple
- On grade or below grade installation.
- Accepts any ½" FIPT emitter.
- Not to exceed 50 psi

How to Order: GIH12ABR

Hose Color:

- BR (Brown)
- R (Reclaimed)

Assembly:

- A (Assembled w/ GPST2)
- blank (No Emitter)

Length:

- 6, 12, 18, 24, ... 120 (inches)
- Custom Lengths Available



FLEX NIPPLE

GPH 6" Flexible Nipple, Available in 2 configurations, 1/2" & 3/4". Allows for movement and adjustments when used as a transitional joint connection between rigid pipe and a inline irrigation system. It can be installed subsurface or on grade.

FEATURES

- ISO compliant pressure rating
- Manufactured from Flexible Vinyl with Engineering grade rigid PVC Fittings
- Leed – US Green Building compliant
- 10 Year Warranty
- 6" Length
- 1/2" MIPT x 1/2" FIPT
- 3/4" MIPT x 3/4" FIPT
- Offered in Black Color



How to Order 075-600 3/4":

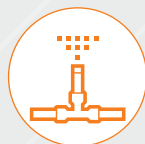
GFNXX-600

- [050] 1/2" IPS

- [075] 3/4"IPS



PVC HOSE & TUBING



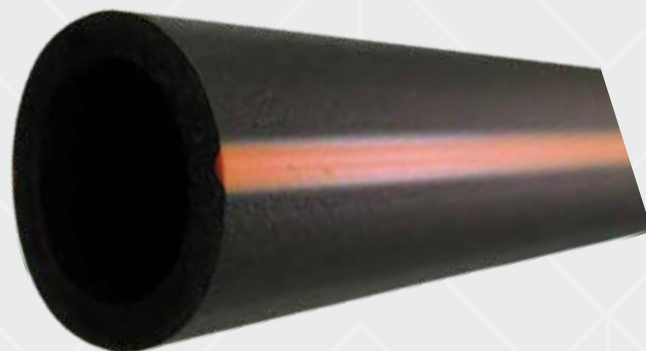
STICKY-STRIP™ / ORANGE STRIPE™ ALGAE RESISTANT PVC FLEX HOSE

The same great GPH A/R Flex PVC hose with an industry first easy melt welding stripe built in! Solvent welding PVC is such a common practice in the irrigation field that it can be taken for granted... until a poor weld causes a system failure. Our proprietary catalyst in the orange stripe melts at a lower temperature with a lower viscosity; ensuring a better weld compared to standard hose using the same welding technique.

P-70 Primer with IPS-795 PVC Solvent Cement recommended for Schedule 40 fitting connections

FEATURES

- Sticky Stripe™ technology helps ensure a better weld
- Constructed from durable, UVR, S-0214 non-rigid PVC blend materials
- Orange stripe makes hose easily identifiable after installation
- Available in 4 different sizes: ½" Irrigation Size [¾" IPS], ½" IPS, ¾" IPS and 1" IPS
- Kink resistant
- Can be installed at or below grade
- PVC Tubing is compatible with schedule 40 slip fittings of the corresponding size when welded or "glued"



Part Number <small>Add coil length in feet to end of Part #</small>	Available Coil Lengths	Working Pressure	Burst Pressure
GPVCSSAR050IRR	500 ft	0.680"	0.500"
GPVCSSAR050IPS	100, 200 ft	0.840"	0.560"
GPVCSSAR075IPS	200 ft	1.050"	0.750"
GPVCSSAR100IPS	100 ft	1.315"	1.000"



PVC SUPPLY HOSE

Our Super Flexible and Ultra tough Supply Tubing has a long life expectancy, greater than 20 years! Its flexibility ensures it will not kink, which makes it a perfect fit for high traffic areas. You can bend it and loop it more easily than most tubing on the market. Manufactured from our durable UVR non-rigid PVC resin with a proprietary Algae Resistance package that is compounded into the tubing in the manufacturing process. Algae resistance is particularly important in on grade applications where increased water temperatures provide a host environment for algae growth that can clog emitters. **P-70 Primer with IPS-795 PVC Solvent Cement recommended for Schedule 40 fitting connections**

FEATURES

- Constructed from durable, UVR, S-0214 non-rigid PVC blend materials.
- Also available without algaecide.
- Available in 4 different sizes: ½” Irrigation Size (¾” IPS), ½” IPS, ¾” IPS and 1” IPS.
- Kink resistant
- Can be installed at or below grade
- PVC Tubing is compatible with schedule 40 slip fittings of the corresponding size when welded or “glued”.



Supply Tubing

Part Number <small>Add coil length in feet to end of Part #</small>	Without AR	Available Coil Lengths	OD	ID
GPVCAR050IRR	GPVC050IRR	500 ft	0.680”	0.500”
GPVCAR050IPS	GPVC050IPS	100, 200 ft	0.840”	0.560”
GPVCAR075IPS	GPVC075IPS	200 ft	1.050”	0.750”
GPVCAR100IPS	GPVC100IPS	100 ft	1.315”	1.000”

Micro Tubing

Part Number <small>Add coil length in feet to end of Part #</small>	Available Coil Lengths	OD	ID
GPVC187125	50, 100, 1000, 2000 ft	0.187”	0.125”
GPVC220160	50, 100, 1000, 2000 ft	0.220”	0.160”
GPVC250170	50, 100, 1000, 2000 ft	0.250”	0.170”

PE HOSE & TUBING



PE - POLYETHYLENE HOSE

Constructed from high quality, UVR resin blend materials, this tubing is rated up to 80 psi. Available in 50, 100, 500, and 1,000 foot coils, tubing can be purchased individually, by the pallet or truckload. All for a very reasonable price.



FEATURES

- Manufactured from the Highest Quality DOW Fingerprint® Resin
- Available in 3 different sizes: 700x600, 710x620 and 940x820
- Constructed from durable, UV resistant, resin blend materials
- 60 psi rating exceeds competitor specs
- Can be installed at or below grade
- Compatible barb fittings or with standard compression fittings
- 100', 500' and 1,000' coils sold individually, by the pallet and truckload



Supply Tubing

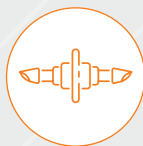
Part Number <small>Add coil length in feet to end of Part #</small>	Available Coil Lengths	OD	ID
GPE620520	50, 100, 500, 1000 ft	0.620"	0.520"
GPE700600	50, 100, 500, 1000 ft	0.700"	0.600"
GPE710620	50, 100, 500, 1000 ft	0.710"	0.620"
GPE940820	100, 500, 1000 ft	0.940"	0.820"
GPE12001060	100, 500 ft	1.200"	1.060"

Micro Tubing

Part Number <small>Add coil length in feet to end of Part #</small>	Available Coil Lengths	OD	ID
GPE187125	50, 100, 1000, 2000 ft	0.187"	0.125"
GPE220160	50, 100, 1000, 2000 ft	0.220"	0.160"
GPE250170	50, 100, 1000, 2000 ft	0.250"	0.170"



FITTINGS

**MICRO FITTINGS**

¼" Micro Fittings are a great way to connect your ¼" distribution tubing to supply hose or to connect two pieces of distribution tubing together.

**FEATURES**

- Secure and easy installation without glue or clamps
- Large inside diameter for maximum flow
- One piece construction
- UV-resistant
- Fits ¼" (0.145 - 0.190 ID) distribution tubing
- Operating Pressure: Up to 30 psi
- Made of Acetal, a strong material that won't crack or snap.

**How to Order:****GQBT****Configuration:**

- C (Coupler)
- E (Elbow)
- T (Tee)





PVC MALE ADAPTERS

The GPH Male Adapter is a Black UVR ½" Male Pipe Thread Schedule 40 Male Adapter. Its manufactured from high impact PVC to meet all applicable ASTM standards.



FEATURES

- Available in:
 - ½" MIPT X ½" Slip
 - ½" MIPT x ½" Irrigation Slip Size [¾" IPS]
 - ¾" MIPT x ¾" Slip
- High impact plastic
- UV-resistant
- Standard solvent welding technique



How to Order: G436**073**BR

Color:

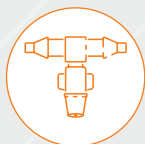
- **B** (Black)
- **BR** (Brown)
- **R** (Reclaimed)
- **UVR** (UV Resistant)

Slip Size:

- **075** [¾" IPS]
- **073** [1/2" Irr. / 3/8" IPS]
- **005** [1/2" IPS]



FITTINGS



UNIVERSAL DRIPLINE FITTINGS

GPH Universal DripLine Fittings are compatible with all brands of 17mm Inline or PE blank tubing on the market.



FEATURES

- Compatible with all brands of 17mm Landscape Dripline.
- Proprietary barb holds tight while still allowing for ease of installation.
- UV Resistance provides protection from harshest environments.
- Commercial grade design to help combat fitting failure common in other brands of fittings.



SPECS

- **Inside diameter:**
0.49" [1.24 cm]
- **Operating pressure:**
Up to 80 psi [5.5 bar]
- **Temperature:**
Up to 110°F [43°C]

Part Number	Description	Application
DL-Coupler	Barb Coupling 17 x 17 mm	For 2-Way Joints
DL-Elbow	Barb Elbow 17 x 17 mm	For Elbow Join Connection
DL-Tee	Barb Tee 17 x 17 x 17 mm	For 3-Way Joints
DL-MA-050	Barb Male Adapter 17 mm x 1/2" MPT	For Transition from 1/2" IPS Pipe to Dripline
DL-MA-075	Barb Male Adapter 17 mm x 3/4" MPT	For Transition from 3/4" IPS Pipe to Dripline
DL-MA-050	Tee Male Adapter 17 mm x 1/2" MPT x 17 mm	For 3-Way connection to 1/2" IPS Pip



INLINE EMITTER DRIPLINE

We have developed our professional grade in-line drip hose with the ruggedness and ultra-precise emitters you have come to expect from GPH – all at a great price. The Heavy-Wall™ Performance Advantage™ provides every plant in the system with a consistent, precise flow rate. This allows more precise scheduling for minimum plant water requirement – reducing the need for over-watering as seen with other products.

FEATURES

- Thicker hose wall adds durability for subsurface and on-surface installations.
- Widest pressure compensation range in the industry, (6-65 psi), enables longer runs with balanced flow rates.
- Dual self-flushing mechanism flushes at pressurization and de-pressurization of every cycle – ensuring reliable operation with less maintenance.
- Ultra precise pressure compensation of less than 0.04 CV. Even the most severe elevation changes will not affect flow rates.
- LEED Project Qualified. Manufactured using our environmentally friendly Zero Foot Print process which meets the required standards.
- Compatible with all brands of 17mm fittings.



Flow Per 100 Feet [GPH / GPM]			
Emitter Spacing	0.5 GPH	1 GPH	
12 Inches	50 / 0.833	100 / 1.67	

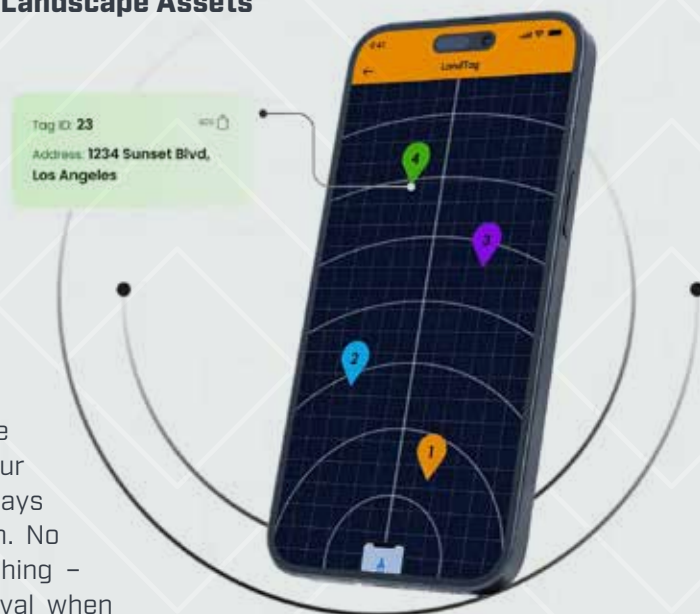
Part Numbers			
Part Number	Coil Length	Spacing	Flow Rate
GHVY0512100	100	12"	0.5 GPH
GHVY0512500	500		
GHVY112100	100	12"	1 GPH
GHVY112500	500		



LANDTAG SMART ASSET TRACKING MADE EASY

Identify & Locate Your Landscape Assets in Real-Time with LandTag Identify & Locate Your Landscape Assets in Real-Time with LandTag

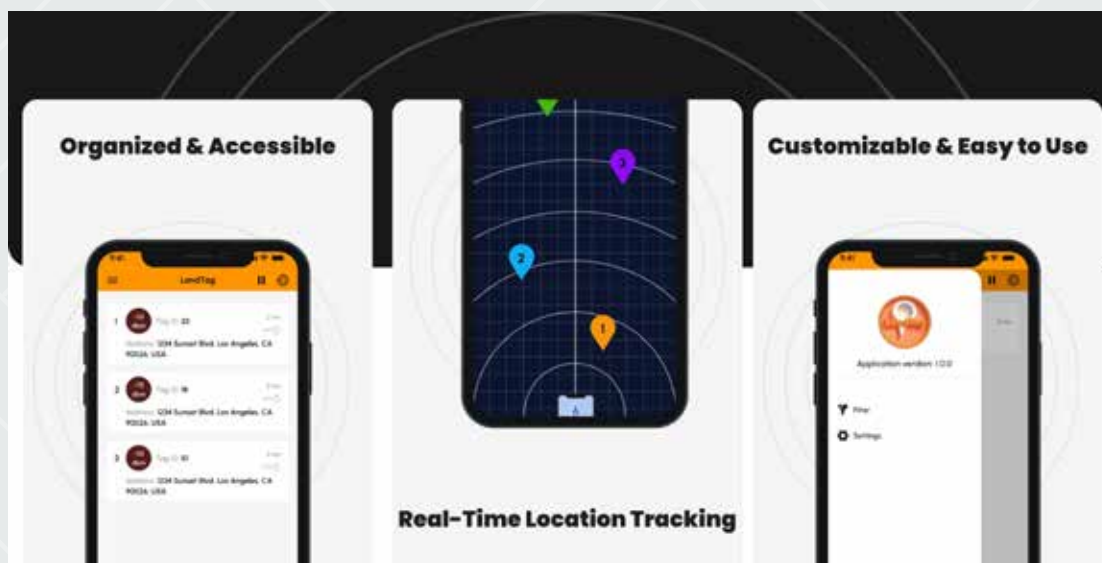
Tired of losing irrigation equipment in overgrown landscapes? LandTags are your solution. Attach these tags to your valuable devices, download our intuitive app, and you'll always know their exact location. No more wasted time searching – just quick, precise retrieval when you need it most."



HOW IT WORKS:

You Provide IDs: Before your LandTag ships, you give us the unique IDs for your equipment. We Program & Mark: Our team programs each tag with your specific information and marks it for quick recognition.

You Attach: Once your LandTag arrives, simply attach it to your irrigation device. It's that easy to start tracking your valuable equipment!



Part # LT100 Description - LandTag Bluetooth® LE 5.0 tracking device, your requested ID is required when ordering.



SCH 80 PIPE NIPPLES

GPH Sch 80 PVC nipples and sprinkler risers designed for use on a wide range of threaded pipes. Sch 80 for high pressure applications and has a thicker wall than Schedule 40 pipe. It is highly durable, easy to install and has better sound deadening qualities than PVC and ABS Foam Core pipes. The color of the pipe is grey as shown in the picture. Schedule 80 can be used in a variety of applications.



FEATURES

- Seals threads on virtually any mating piping system, including stainless steel pipe, cast iron, PVC, CPVC and ABS pipe, as well as brass and chrome fittings.
- Proprietary molded threads ensures quality connection
- Chemically Inert
- Commercial grade design to help combat fitting failure common in other brands of schedule nipples.
- Injection molded
- Available in 1/2" to 2" Pipe Size
- Standard Lengths, Specialty Sizes Available

How to Order: PN05 - X

Color:

- **R** [Reclaimed]
- **UVR** [UV Resistant]
- **blank** [standard gray]

Length

Close, 2", 3", 4", 5", 6" ... 72"

Pipe Thread

- **05** [1/2" IPT]
- **075** [3/4" IPT]
- **1** [1" IPT]
- **1.25** [1 1/4" IPT]
- **2** [2" IPT]

AREA SIGNAGE



SIGNS

GPH's Identification Signs are used to easily identify and mark Reclaimed/ Recycled Water areas such as ball fields/ parks and commercial buildings. All signs are customizable with agency specific logo's. Other custom sign options are available.



FEATURES

- Used to denote Reclaimed/Recycled water in use
- Purple Background/ White Lettering and Artwork/ Rounded Corners
- Bilingual
- .1875" Holes

PRODUCTS

- Identification Sign/ Metal/ Reclaimed Water/ Bilingual

Units per case: 1



Part Number	Description	Product Description	
511224	ID-SIGN-35	Water Conservation Do Not Drink English/Spanish 12"x18"	1 sign
511234	ID-SIGN-4X8	Identification Sign/Metal/ 4"x 8" Reclaimed Water	1 sign
511229	ID-SIGN-45	Identification Sign/Metal/ 9" x 12" Reclaimed Water	1 sign
511226	ID-SIGN-4	Identification Sign/Metal/18"x24" Reclaimed Water	1 sign
511257	ID-SIGN-9X12-WRW	Irrigation Recycled Water Do Not Drink English/ Spanish, 9"x12"	1 sign
511239	ID-SIGN-6	Reclaimed Water Do Not Drink English/Spanish 9 3/4"x13 1/4"	1 sign
511260	ID-SIGN-REC1218	Recycled Water Do Not Drink English/Spanish 12"x18"	1 sign
511218	ID-SIGN-1818	Recycled Water Do Not Drink English/Spanish 18"x18"	1 sign
511223	ID-SIGN-3	City Conservation Recycled Water English/Spanish 18"x24"	1 sign
GSU802	GSU802	Post, Galvanized Steel, 8' x 2" U Channel	1 post



This versatile Super Flex Coupler is ideal for the installation or repair of irrigation systems when flexibility is needed. The Bio-based Flexible PVC Super Flex Couplers are not only Eco-Friendly but Super Strong. We manufacture the Super Flex with phthalate-free PVC which provides for not only the toughest hose but also the most environmentally responsible. Our unique manufacturing process of adding an integral spiral rigid spine allows for flexibility while allowing for higher burst pressures than standard Flex PVC irrigation hose.

Compatible with slip PVC schedule 40 or 80 pipe and connected by solvent welding

FEATURES

- Available in different sizes: 1/2" - 2" IPS
- Constructed from reinforced flexible PVC
- The Flex Couplers are compatible with schedule 40 or 80 slip pipe of the corresponding size when solvent welded or "glued".
- 18 in. versatile length
- Portable
- Designed for outdoor landscape use only or non-pressure indoor applications such as condensate lines
- Do not exceed 60 psi constant pressure
- Do not use in hot water applications



PRODUCTS

- Tree Roots
- Broken Pipe
- Odd Corners
- Uneven Surfaces



Part Number	Size	Length	Working Pressure	Burse Pressure
GXFC050	Super Flex Couplers Super Flex Couplers, 1/2"	18"	150 psi	325 psi
GXFC075	Super Flex Couplers, 3/4"	18"	150 psi	325 psi
GXFC100	Super Flex Couplers, 1"	18"	150 psi	325 psi
GXFC125	Super Flex Couplers, 1 1/4"	18"	150 psi	325 psi
GXFC150	Super Flex Couplers, 1 1/2"	18"	150 psi	280 psi
GXFC200	Super Flex Couplers, 2"	18"	125 psi	225 psi

SWING JOINTS & SPRAY ACCESSORIES

**SWING JOINT**

Use our Pre-assembled Swing Joint to Maximize the Performance of Your Rotors or Sprays. Connects ½" or ¾" sprinklers or quick coupler valves to lateral pipes. Allows easy adjustment of head and prevents heads or pipes from breaking when run over by equipment or kicked by foot traffic.

**FEATURES**

- ½" x 6" Long and ½" x 12" long.
- Pre-assembled with Marlex St. Ell for leak free adjustments.
- Speeds up sprinkler installs, easy adjustment makes properly positioning heads a snap.
- Less contractor call backs.
- Up to 80 psi and 110° F.



How to Order:
GSJ7506

Color:

- **B** (Black)
- **BR** (Brown)

Adapter Size:

- **05** [1/2" MIPT]
- **75** [3/4" MIPT]

**SHRUB ADAPTER**

Replaces Rainbird™ PA-BS

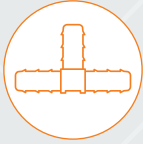
Ultra Tough Shrub Adapter, manufactured from self sealing engineering grade resins. No need to Teflon tape your riser when you use this Shrub Adapter. Designed for all female threaded nozzles.

**FEATURES**

- Adapts all female threaded nozzles to ½" MPT threaded risers
- Accepts all protective filter screens
- Durable, non-corrosive plastic construction.



How to Order:
GPA8S



SWING PIPE FITTINGS

The GPH Spiral Barb Ells have a positive locking design that insures against leaking and blow out. Fittings are made of robust acetal material to make connecting swing pipe fast and easy with the simple twist-in insertion. No glue or clamps needed for installation. Aggressive barb lip makes a secure connection that is less likely to leak and reduces likelihood of contractor call backs.

FEATURES

- Easily handles pressures up to 150 psi at 110° F
- Less contractor call backs
- Brown in color to blend with the landscape
- For use in conjunction with Swing Pipe as a flexible swing assembly



Part Number	Description	Bag/Box Qty
GSBCOUP	1/2" barb x 1/2" barb coupling	50/500
GSBE050	Spiral Barb x 1/2" MIPT Ell	50/500
GSBE075	Spiral Barb x 3/4" MIPT Ell	50/500
GSBTEE	Spiral Tee	50/500
GSBA050	Spiral Barb x 1/2" MIPT Adapter	50/500
GSBA075	Spiral Barb x 3/4" MIPT Adapter	50/500
GSBTMA050	Spiral Barb x Spiral Barb x 1/2" MIPT Tee	25/250
GSBTMA075	Spiral Barb x Spiral Barb x 3/4" MIPT Tee	25/250

SWING JOINTS & SPRAY ACCESSORIES

**SUPER-FLEX SWING PIPE**

Designed to simplify spray head installation, this tubing is ideal for challenging landscapes and hard-to-reach areas. Superior flexibility allows pipe to be efficiently routed around hard scape, terraces, and uneven terrain. Textured surface makes product easier to handle, contributing to labor efficiency, especially under wet conditions Up to 30% more flexible than competitors. Use with Swing Joint Ell's as a flexible swing assembly for sprays and rotors.

FEATURES

- Enhanced kink resistance
- Specifications Inside diameter: 0.49"
- Operating pressure up to 80 psi at 110° F



Part Number	Model	Description
SF100-005	Super Flex 100	Super Flex Swing Pipe, Compatible with all spiral barb fittings, brown

**MARLEX STREET ELL**

A Male Threaded by Female Threaded street elbow fitting typically used in connection from lateral to sprinkler to provide adjustment of sprinkler head. Manufactured from self sealing High Density Polyethylene which allows for leak free operation with out the use of Teflon tape. When used in pairs or triplicate, Marlex street ells provide stability to support sprinkler head during installation and enough flexibility when backfilling to fine adjust the sprinkler head to desired grade-level and vertical orientation.

FEATURES

- 1/2" MIPT x 1/2" FIPT
- Manufactured of a self lubricating, semi-flexible material.
- 30% more tapered threads than others to accommodate standard variance found in industry threaded components.



How to Order:
GM412005



GPA80 ADAPTER

GPH's adapter compatible with nozzle thread to 1/2" thread for high flow bubbler or threaded end



FEATURES

- Adapts to Spray Body for use with any 1/2" FPT Bubbler or Emitter, by converting the spray body pop-up stem to 1/2" male pipe thread
- Manufactured from a Engineering Grade UV stabilized plastic.
- Easy to Install; thread on manually



Part Number	Description	QTY
GPA8010	GPA80 Adapter, compatible with 1/2" FPT bubbler and emitter, 10 bag	10 bag
GPA8050	GPA80 Adapter, compatible with 1/2" FPT bubbler and emitter, 50 bag	50 bag



4 IN 1 CUT OFF NIPPLE

Replaces DFW Plastics 4 in 1 Series Cut Off Nipples. The 4 in 1 nipple allows you to choose several different sizes with just one nipple.



FEATURES

- Available in 1/2" and 3/4"
- Reduce Inventory
- No Waste
- Reduce Contractor Down Time
- No Cross Threaded Nipples
- One 6" nipple be easily cut to provide the following configurations:
 - One close nipple and one 4 1/2" nipple
 - One close nipple, one 2" nipple and one 2-1/2" nipple
 - Two close nipples and one 2-1/2" nipple



How to Order:
G41CVN075

Size:

- **050** (1/2" MIPT)
- **075** (3/4" MIPT)

SWING JOINTS & SPRAY ACCESSORIES



VALVE ID TAGS

GPH's Valve ID Tags are manufactured in two sizes; the standard yellow and large reclaimed standard colors. We keep a large inventory of the stock alpha-numeric options (ex. A1-A99) and have quick turnaround on all custom requirements.



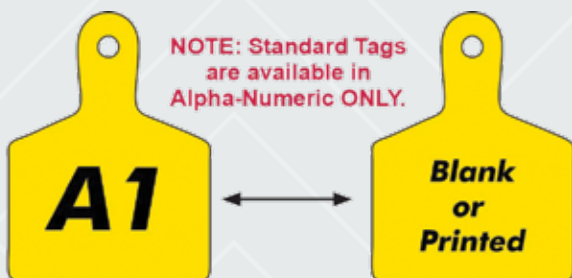
FEATURES

- Easy Installation by slipping the wire through the hole (up to 12 gauge)
- Manufactured from a Engineering Grade UV stabilized Behr Desopan material
- Individual hot-stamped for maximum contrast and visibility



SPECS

- Inside diameter: 0.49" [1.24 cm]
- Operating pressure: Up to 80 psi [5.5 bar]
- Temperature: Up to 110°F [43°C]



Part Number	Description
GID-STD	Standard ID Tag. Please specify color and alpha numeric requirement when ordering
GID-MAX	Large ID Tag. Please specify color and alpha numeric requirement when ordering
GID-STD-KIT	10 pcs. small ID Tag Kit, Pre-Packaged Kit, Letter and number 1-10. Please specify color and alpha numeric requirement when ordering; for example A1-A10 is on kit



THE VALVE BOX NAMEPLATE

GPH's Valve Box Nameplate is manufactured with Reclaimed/Purple Color UV Co-Polymer Plastic. The Nameplate allows for easy identification of the valve box lids.

FEATURES

- Easy Installation using supplied rivets
- Easy to Read Bi-lingual plate to convert a standard preinstalled box or new to reclaimed.



Part #G3800-NP Reclaimed, Purple Valve Box Nameplate 1 plate, with 2 rivets



TREE TIES

**CINCHING STYLE TREE TIES**

GPH's cinch style tree ties are sturdy enough to support without damaging the trees trunk. These easy to use ties combined with a stake will support a transplant or yearlings flexible trunk when exposed to outdoor elements.

- 24" Long Tie for a 5-15 Gallon Tree
- 32" Long Tie for a 24" Box Tree
- 36" Long Tie for a 36" Box Tree

FEATURES

- Easy Installation by slipping the wire though the hole (up to 12 gauge)
- Manufactured from a Engineering Grade UV stabilized Behr Desopan material
- Individual hot-stamped for maximum contrast and visibility
- Available in a 24", 32", and 36" lengths



Cinching Style Tree Ties	Part
24"	GTT24
32"	GTT32
36"	GTT36



J HOOK'S AND STAKES

This domestic rebar test's to 60 ASTM A615 and ASTM A706 and complies with the "Buy American Act" with mill certificates available.

These durable J Hook's and Stakes can be used in a variety of different ways in the landscape. The J Hooks are used as pipe stabilizers to ensure proper placement of all pipe sizes up to 3" IPS. Hooks can also be used to hold down landscape fabric. The straight stakes have multiple uses, such as: supports for your landscape edging, supports for sprinklers and concrete forming. Custom sizes available upon request. They are also available in Black Epoxy Coating.



Part Number	Description
GRJ312	12" J Hook, Bar Size #3
GRJ318	18" J Hook, Bar Size #3
GRJ324	24" J Hook, Bar Size #3
GRS312	12" Stake, Bar Size #3
GRS318	18" Stake, Bar Size #3
GRS324	24" Stake, Bar Size #3
GRS336	36" Stake, Bar Size #3
GRJ412	12" J Hook, Bar Size #4
GRJ418	18" J Hook, Bar Size #4
GRJ424	24" J Hook, Bar Size #4
GRJ436	36" J Hook, Bar Size #4
GRS412	12" Stake, Bar Size #4
GRS418	18" Stake, Bar Size #4
GRS424	24" Stake, Bar Size #4
GRS436	36" Stake, Bar Size #4

PRESSURE COMPENSATED SCREENS

**PC-SCREEN**

Not just back... but better than ever. Pressure Compensating Screens for all brands of spray nozzles. Pressure compensation is like a superhero power for your irrigation system, ensuring that every spray head distributes the same amount of water, no matter if they're at the top of Mount Spray or at the bottom. It's like having a lifetime personal bodyguard for each of your spray heads, making sure they each irrigate evenly with equal and even performance, even if the terrain is as uneven as a teenager's mood swings. Pressure regulation only limits the pressure to the nozzle (old school) it does not control the flow, if distribution uniformity differs from head to head so will the amount of water they put out. Get yours today they are in high demand! Conserve and Control water to make this world a better place.

**FEATURES**

- Pressure Compensating Screen
- Color Coded Flow Control Element
- Self Sealing Material Eliminates Blow-by
- Cone Body Style Upgrade Eliminates Flow Restriction



Part Number	Description
PCS-020	Pressure Compensating Screens for pop up Sprays, .2 gpm - Brown
PCS-025	Pressure Compensating Screens for pop up Sprays, .25 gpm - Pink
PCS-030	Pressure Compensating Screens for pop up Sprays, .3 gpm - Silver
PCS-040	Pressure Compensating Screens for pop up Sprays, .4 gpm - Orange
PCS-060	Pressure Compensating Screens for pop up Sprays, .6 gpm - Black
PCS-090	Pressure Compensating Screens for pop up Sprays, .9 gpm - White



X-FLEX+ SPA AND POND HOSE

The Bio-based Flexible PVC Pressure Rated Hose is not only Eco-Friendly but Super Strong. We manufacture the X-Flex+ from phthalate-free flex PVC which provides for not only the toughest hose but also the most environmentally responsible. Our unique manufacturing process of adding an integral spiral rigid spine allows for flexibility while allowing for higher burst pressures than standard Flex PVC irrigation hose. Compatible with slip PVC schedule 40 or 80 fittings and connected by solvent welding: We suggest using a P70 Primer and then IPS Weld-On part # 795 or 2795 (for flexible tubing), follow proper solvent welding techniques.

FEATURES

- First pressure rated flex hose for commercial irrigation applications.
- Available in different sizes: 1/2" - 3" IPS
- Offered in 2 color options: White or Black
- PVC Tubing is compatible with schedule 40 or 80 slip fittings of the corresponding size when solvent welded or "glued".

Part Number	Size	Coil Length	Coils/Skid	OD (in)	Operating Pressure	Burst Pressure @ 72°F	Vacuum Rating (in/hg)	Hose Color
GXFP050-XX-W	1/2" IPS	50/100	80	.84	100 psi	300 psi	25	White
GXFP050-XX-B	1/2" IPS	50/100	80	.84	100 psi	300 psi	25	Black
GXFP075-XX-W	3/4" IPS	50/100	72	1.050	100 psi	300 psi	25	White
GXFP075-XX-B	3/4" IPS	50/100	72	1.050	100 psi	300 psi	25	Black
GXFP100-XX-W	1" IPS	50/100	60	1.315	100 psi	300 psi	25	White
GXFP100-XX-B	1" IPS	50/100	60	1.315	100 psi	300 psi	25	Black
GXFP125-XX-W	1" 1/4 IPS	50/100	20	1.66	80 psi	200 psi	25	White
GXFP125-XX-B	1" 1/4 IPS	50/100	20	1.66	80 psi	200 psi	25	Black
GXFP150-XX-W	1" 1/2 IPS	50/100	20	1.9	65 psi	200 psi	25	White
GXFP150-XX-B	1" 1/2 IPS	50/100	20	1.9	65 psi	200 psi	25	Black
GXFP200-XX-W	2" IPS	50/100	15	2.375	60 psi	200 psi	25	White
GXFP200-XX-B	2" IPS	50/100	15	2.375	60 psi	200 psi	25	Black
GXFP300-XX-W	3" IPS	50/100	8	3.5	60 psi	150 psi	25	White
GXFP300-XX-B	3" IPS	50/100	8	3.5	60 psi	150 psi	25	Black

POWER FLEX-WHIP

**POWER FLEX-WHIP**

The GPH Power Flex-Whip is a non-metallic conduit constructed with two different PVC materials that are extruded to form a highly flexible product designed especially for electrical applications. A rigid material forms the stiff helical spring, which is completely encapsulated by a second flexible compound. Stranded Copper THHN/THWN conductors NEMA FB-1 fittings are installed at the factory. 12" wire leads are left exposed at each end for hassle free hook-ups.

**FEATURES**

- Complete assembly delivered from the factory ready to install. Includes 12" wire leads at each end for easy and hassle-free hook-ups.
- Resistant to rust, cracks, and separation.
- Available in 4' or 6' lengths in 1/2" or 3/4" sizes.
- Non-metallic raceway is non-conducting.
- Commonly used for connecting irrigation controllers, air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment.
- Easy to paint to match to blend in with surroundings





IWC IRRIGATION WIRE CLIP

GPH's Irrigation Wire Clip Our new IWC's, Irrigation Wire Clips, help keep the most fragile part of your system, the wires, exactly where you want them. It does not take much for a 2-wire system to be rendered completely useless when any sort of damage to the wire occurs, check your controller warranty for reference.

The IWC's are a simple and effective way to ensure success and avoid costly damage.



FEATURES

- Reliable Performance - eliminates damage to wires by holding securely to pipe
- Variety - Clips offered in 1/2" IPS to 3" IPS.
- Ease of Installation - simply run the wire near the pipe and clip to hold that position



Part Number	Product Description	Bag Quantity	Box Quantity
IWC-05	1/2" IPS Wire Clip	10	100
IWC-075	3/4" IPS Wire Clip	10	100
IWC-100	1" IPS Wire Clip	10	100
IWC-125	1 1/4" IPS Wire Clip	10	100
IWC-150	1 1/2" IPS Wire Clip	10	100
IWC-200	2" IPS Wire Clip	10	100
IWC-300	3" IPS Wire Clip	10	100



WATER PROOF WIRE CONNECTORS

FEATURES

- Sealed with pure Dow Corning SP4577 Dielectric Silicone – Ensuring the best waterproof connection
- Industry leading Dielectric Strength and Volume Resistivity
- Single Step connection – Pre-twisting of wires is not necessary
- Makes a secure waterproof connection the first time every time

SPECS

- Maximum Voltage: 600v
- Dielectric Strength > 450v/mil @ 50 mil gap
- Volume Resistivity: $2.17 \times 10^{15} \Omega\text{-cm}$



INSTALLATION

ALWAYS TURN OFF POWER BEFORE INSTALLING OR REMOVING CONNECTORS. ONLY INSTALL PER LOCAL AND NATIONAL CODES. NOT FOR USE IN CONTINUOUS SUBMERSION APPLICATIONS.

- Strip wires: 1/2" for wires larger than 16ga, 7/16" for 16ga and smaller
- Hold wires together with copper tips even. Straighten frayed or bent wires and strands. Pre-twisting wires is not necessary.
- Firmly push wires evenly into connector and twist clockwise until secure. Do not over-tighten. Do not reuse connector.
- Visit gphirrigation.com to see spec sheet for wire combinations and capacity

**WATER PROOF WIRE CONNECTORS**

Part Number	Color	Wires
BB12-22	Blue/Blue	12-22 AWG
CB6-24	Charcoal/Blue	6-24 AWG
CG8-22	Charcoal/Gray	8-22 AWG
CW12-22	Charcoal/White	12-22 AWG
CG12-22	Gray/Gray	12-22 AWG
T6-14	Tan	6-14 AWG

SPLICE KITS

**GDBRY6**

Direct Bury Splice Kit GDBRY-6 is a premium moisture-resistant connector that is designed to electrically connect and create a moisture seal for thicker insulation wire. Kit contains a 3M™ Spring Connector R/Y+ and a high impact, UV-resistant tube pre-filled with pure dielectric silicone sealant.

**FEATURES**

- Filled with Water Proof Dow Corning SP4577 Dielectric Silicone
- Maximum Voltage: 600v
- Industry Leading Volume Resistivity at 73°F (23°C): ohm-cm 2.17 x 10¹⁵
- Industry Leading Dielectric Strength, 50 mil gap volts/mil: >450

**SPECS**

- Flame Retardant Cert. - UL-94 V-2
- Maximum Wire Gauge - 10 AWG
- Minimum Wire Gauge - 18 AWG

**GDS400**

Our dry splice has a seal designed into each wire hole that enables you to stock one connector for all applications. The dry splice seal features an interference webbing which expands to accommodate #18 through #6 gauge wire sizes. In the event only two holes are used, our dry splice seal prevents sealant from leaking out through the third hole.

**FEATURES**

- Pre-filled with pure Dow Corning SP4577 Dielectric Silicone - Ensuring the best waterproof connection
- Crimp style wire connector
- Holes in connector housing seal around wire to protect silicone from escaping and continuously encapsulate splice
- Each kit comes with two crimp sizes to cover a wire range from #18 - #10

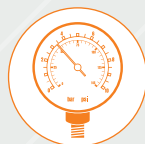




FLEX PVC FRICTION LOSS

This table shows the friction loss in psi per 100ft of Flex PVC Supply Hose. Values in red denote flows that exceed the recommended velocity of 5 ft/s, and should be avoided. Table is for reference only.

	3/8" IPS		1/2" IPS		3/4" IPS		1" IPS		
	ID: 0.500 in.		ID: 0.560 in.		ID: 0.750 in.		ID: 1.000 in.		
GPH	ft/s	PSI	ft/s	PSI	ft/s	PSI	ft/s	PSI	GPM
5	0.14	0.02	0.11	0.01	0.06	0.00	0.03	0.00	0.1
10	0.27	0.06	0.22	0.03	0.12	0.01	0.07	0.00	0.2
20	0.54	0.21	0.43	0.12	0.24	0.03	0.14	0.01	0.3
30	0.82	0.45	0.65	0.26	0.36	0.06	0.20	0.02	0.5
40	1.09	0.77	0.87	0.44	0.48	0.11	0.27	0.03	0.7
50	1.36	1.16	1.09	0.67	0.61	0.16	0.34	0.04	0.8
75	2.04	2.45	1.63	1.41	0.91	0.34	0.51	0.08	1.3
100	2.72	4.18	2.17	2.40	1.21	0.58	0.68	0.14	1.7
125	3.40	6.31	2.71	3.63	1.51	0.88	0.85	0.22	2.1
150	4.09	8.84	3.26	5.09	1.82	1.23	1.02	0.30	2.5
175	4.77	11.76	3.80	6.77	2.12	1.63	1.19	0.40	2.9
200	5.45	15.06	4.34	8.67	2.42	2.09	1.36	0.51	3.3
225	6.13	18.72	4.88	10.78	2.72	2.60	1.53	0.64	3.8
250	6.81	22.75	5.43	13.10	3.03	3.16	1.70	0.78	4.2
275	7.49	27.14	5.97	15.63	3.33	3.77	1.87	0.93	4.6
300	8.17	31.88	6.51	18.36	3.63	4.42	2.04	1.09	5.0
350	9.53	42.39	7.60	24.41	4.24	5.88	2.38	1.45	5.8
400			8.68	31.25	4.84	7.53	2.72	1.86	6.7
450			9.77	38.86	5.45	9.37	3.06	2.31	7.5
500					6.05	11.38	3.40	2.80	8.3
550					6.66	13.58	3.74	3.35	9.2
600					7.26	15.95	4.09	3.93	10.0
700					8.47	21.22	4.77	5.23	11.7
800					9.68	27.16	5.45	6.69	13.3
900							6.13	8.32	15.0
1000							6.81	10.11	16.7



PE FRICTION LOSS

This table shows the friction loss in psi per 100ft of Polyethylene Supply Hose. Values in red denote flows that exceed the recommended velocity of 5 ft/s, and should be avoided. Table is for reference only.

	620x520		700x600		710x620		940x820		1200x1060		
	ID: 0.520 in.		ID: 0.600 in.		ID: 0.620 in.		ID: 1.000 in.		ID: 1.060 in.		
GPH	ft/s	PSI	ft/s	PSI	ft/s	PSI	ft/s	PSI	ft/s	PSI	GPM
5	0.13	0.01	0.09	0.01	0.09	0.01	0.05	0.00	0.03	0.00	0.1
10	0.25	0.04	0.19	0.02	0.18	0.02	0.10	0.00	0.06	0.00	0.2
20	0.50	0.15	0.38	0.08	0.35	0.07	0.20	0.02	0.12	0.00	0.3
30	0.76	0.32	0.57	0.16	0.53	0.14	0.30	0.04	0.18	0.01	0.5
40	1.01	0.55	0.76	0.28	0.71	0.23	0.41	0.06	0.24	0.02	0.7
50	1.26	0.83	0.95	0.42	0.89	0.35	0.51	0.09	0.30	0.03	0.8
75	1.89	1.77	1.42	0.88	1.33	0.75	0.76	0.19	0.45	0.06	1.3
100	2.52	3.01	1.89	1.50	1.77	1.28	1.01	0.33	0.61	0.09	1.7
125	3.15	4.55	2.36	2.26	2.21	1.93	1.27	0.49	0.76	0.14	2.1
150	3.78	6.37	2.84	3.17	2.66	2.70	1.52	0.69	0.91	0.20	2.5
175	4.41	8.47	3.31	4.22	3.10	3.60	1.77	0.92	1.06	0.26	2.9
200	5.04	10.84	3.78	5.40	3.54	4.60	2.03	1.18	1.21	0.34	3.3
225	5.67	13.48	4.26	6.72	3.99	5.73	2.28	1.47	1.36	0.42	3.8
250	6.29	16.39	4.73	8.16	4.43	6.96	2.53	1.78	1.51	0.51	4.2
275	6.92	19.55	5.20	9.74	4.87	8.30	2.78	2.13	1.67	0.61	4.6
300	7.55	22.96	5.67	11.44	5.31	9.75	3.04	2.50	1.82	0.72	5.0
350	8.81	30.54	6.62	15.21	6.20	12.97	3.54	3.32	2.12	0.95	5.8
400			7.56	19.47	7.08	16.60	4.05	4.25	2.42	1.22	6.7
450			8.51	24.21	7.97	20.64	4.56	5.29	2.73	1.52	7.5
500			9.46	29.43	8.86	25.08	5.06	6.43	3.03	1.84	8.3
550					9.74	29.92	5.57	7.67	3.33	2.20	9.2
600							6.08	9.01	3.64	2.58	10.0
700							7.09	11.98	4.24	3.43	11.7
800							8.10	15.33	4.85	4.39	13.3
900							9.11	19.07	5.45	5.46	15.0
1000							6.81	10.11	6.06	6.64	16.7



EQUATIONS

Flow in a pipe

Where:

Q = Discharge³ [ft³ / s]

A = Cross Sectional [ft²]

V = Average Velocity [ft/s]

Velocity in a pipe

$$V = \frac{0.408 \times Q}{(ID)^2}$$

Where:

V = Average Velocity [ft/s]

A = Discharge [GPM]

ID = Inside Diameter of pipe [in]

Hazen-Williams Formula

$$P = \left(\frac{4.52 \times Q^{1.852}}{C^{1.852} \times D^{4.87}} \right) = (\text{length})$$

Where:

P = Pressure Drop [psi]

Q = Discharge [GPM]

C = Friction Coefficient

- PVC: 130

- PE: 140

- Copper: 135

- Galvanized Pipe: 120

D = Pipe Inside Diameter [in]

Length = Length of Pipe [ft]

Pumps

Where:

Q = Discharge [GPM]

HP = Brake

Horsepower

ft_h = Feet of Head

W = Wattage [Watts]

Electricity

Where:

V = Voltage [Volts]

I = Current [Amps]

R = Resistance

[Ohms]

W = Wattage [Watts]



CONVERSIONS

Length

Inch	= 0.08333 ft
	= 25.4 mm
	= 2.54 cm
Foot	= 12 in
	= 0.3333 yds
	= 304.8 mm
	= 30.4 cm
Yard	= 36 in
	= 3 ft
	= 91.44 cm
	= 0.9144 m
Mile	= 5,280 ft
	= 1,760 yds
	= 1,609.3 m
	= 1.609 km
Millimeter	= 0.0394 in
Centimeter	= 0.3937 in
	= 39.37 in
	= 3.281 ft
	= 1.094 yds
Kilometer	= 3,280.87 ft
	= 1,093.6 yds
	= 0.6214 mi
	= 1,000 m

Mass

Pound	= 453.6 g
	= 0.4536 kg
	= 0.12 gal (H2O)
	= 0.016 ft³ (H2O)
Kilogram	= 2.21 lbs
	= 0.264 gal (H2O)
	= 0.035 ft³ (H2O)

Area

Acre	= 43,560 ft²
	= 4,840 yd²
	= 0.001563 mi²
	= 4,046.85 m²
Sq. Mile	= 27,878,400 ft²
	= 3,097,600 yd²
	= 2,589,988.11 m²
Sq. km	= 10,763,910.4 ft²
	= 1,195,990.1 yd²
	= 0.3861 mi²
	= 1,000,000 m²
Hectare	= 107,639.1 ft²
	= 11,959.9 yd²
	= 0.003861 mi²
	= 10,000 m²

Flow

GPH	= 0.0167 GPM
	= 3.785 LPH
	= 0.0631 LPM
GPM	= 60 GPH
	= 227.13 LPH
	= 3.785 LPM
	= 0.1337 ft³/m
ft³/s	= 0.00223 GPM
LPH	= 0.264 GPH
	= 0.0044 GPM
LPM	= 15.85 GPH
	= 0.264 GPM

Volume

US Gallon	= 128 fl oz.
	= 8 pints
	= 4 quarts
	= 0.1337 ft³
	= 3.785 L
	= 8.36 lbs (H2O)
Cu. Foot	= 7.481 gal
	= 28.317 L
	= 62.4 lbs (H2O)
Acre-Inch	= 27,154.3 gal
	= 3,630 ft³
Acre-Foot	= 325,851.4 gal
	= 43,560 ft³
Liter	= 0.2642 gal
	= 0.0353 ft³

Pressure

PSI	= 2.31 ft _h
	= 0.0689 bar
	= 6.895 kpa
Foot Head	= 0.433 PSI
	= 0.0298 bar
	= 2.985 kpa



TERMS OF SALE

Terms

GPH Irrigation Product's standard terms are net 30 days. A late payment charge of 1.5% per month may be assessed on all past due accounts.

Freight

All sales are FOB, San Bernardino County, California – unless quoted otherwise.

Current Sales Price

Products are sold at prices in effect at the time an order is received. Prices are subject to change without prior notice.

Returned Merchandise Authorization

Authorization must be obtained from the factory before any products can be returned. We reserve the right to impose a twenty percent (20%) restocking charge. All returned goods must be returned freight prepaid and must be of current design and resalable condition.

Product Design

We reserve the right to make changes in design or improvements without assuming liability to change products previously sold.

Warranty

GPH Irrigation Products warrants against any manufacturing defects for a period of three years from the date of sale. The warranty is constrained by the fact that the irrigation system is designed, installed and maintained in accordance with the directions available through GPH Irrigation Products. No warranty shall extend beyond the description of goods sold as shown on GPH's sales Invoice. This warranty is limited to repair or replacement of such parts or components proven to be defective in material or workmanship when manufactured by GPH Irrigation Products. GPH Irrigation Products shall not be responsible for any consequential damages. GPH Irrigation Products only obligation, in the event the goods sold do not conform to its physical or performance description, is limited to replacement, as stated above, of nonconforming goods or parts. The warranty does not cover: nonconforming performance due to improper design, installation or maintenance; acts of God; damage due to animals, freezing or contamination to any of GPH Irrigation Products. The use of any registered trade marks or trade names are owned by their respective companies.

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