



## Drip Irrigation

### Major Products

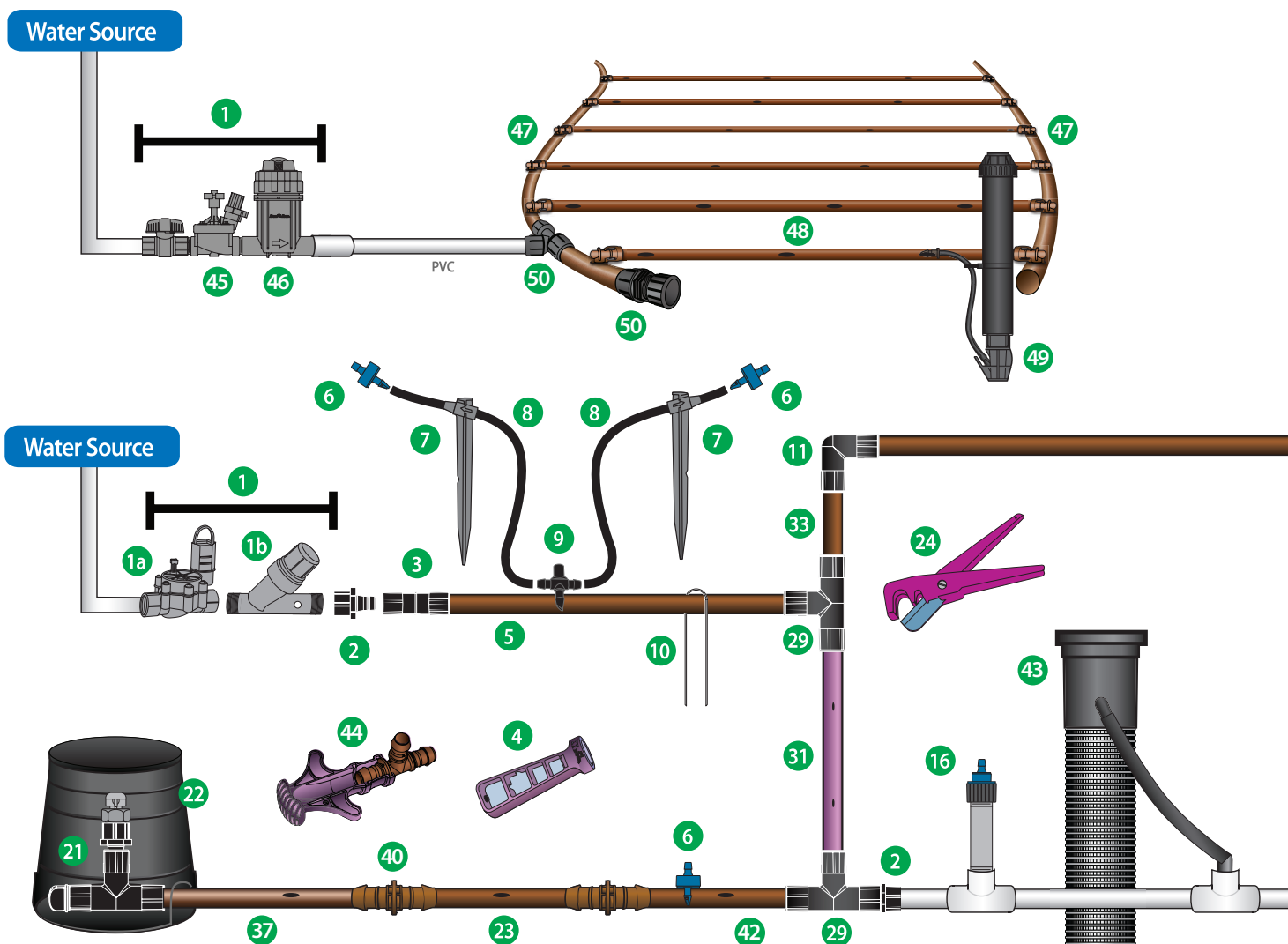
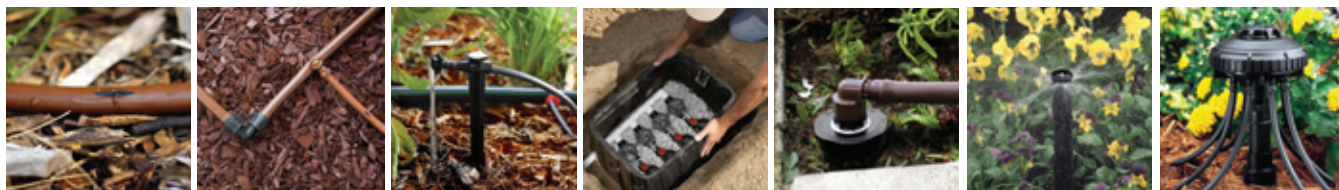
Primary Applications	Single outlet emitter	Multi-outlet emitter	Bubbler emitter	Spray	Inline emitter (Dripline)	RWS
Thick bushes		•	•	•	•	
Single bush	•					
Small trees	•	•			•	•
Large trees	•	•	•			•
Ground cover		•		•	•	
Annuals			•	•	•	
Mixed vegetation	•	•			•	
Potted plants	•		•	•	•	
Hedges	•				•	
Vegetation on slopes	•				•	



### Water Saving Tips

- Drip products deliver water directly to the root zone. Use dripline for dense plantings where it's cost effective to distribute low-volume water evenly. Use a system of precise emitter devices for sparse plantings where it's cost effective to separately irrigate each plant.
- Use drip to eliminate overspray, and you'll eliminate waste. Eliminate unsightly spray stains on buildings and fences. Eliminate soil erosion, water runoff, and potential litigation. Walkways, roads, and vehicles stay dry.
- Ask your tax advisor about capital depreciation when calculating your return-on-investment for a drip retrofit. Save water, and save money at the same time.

## Landscape Drip System Overview



- |  |   |   |
|--|---|---|
| 1. Control Zone Kit (pg. 144)            | 8. XQ 1/4" Distribution Tubing (pg. 142)  | 17. 1/4" Self-Piercing Barb Connector (pg. 114) |
| 1a. Low Flow Valve (pg. 153)             | 9. 1/4" Barb Tee (pg. 143)                | 18. SQ Series Square Nozzle (pg. 118)           |
| 1b. Pressure Regulating Filter (pg. 154) | 10. Tie-Down Stake (pg. 143)              | 19. Xeri-Pop (pg. 120)                          |
| 2. Easy Fit Female Adapter (pg. 138)     | 11. Easy Fit Elbow (pg. 138)              | 20. Xeri-Bubbler SPYK (pg. 121)                 |
| 3. Easy Fit Coupling (pg. 138)           | 12. Diffuser Bug Cap (pg. 123)            | 21. ARV050 Air Relief Valve Kit (pg. 139)       |
| 4. Xeriman Tool (pg. 112)                | 13. PC Emitter Diffuser Cap (pg. 123)     | 22. SEB-7X Emitter Valve Box (pg. 143)          |
| 5. XF Series Blank Tubing (pg. 140)      | 14. PC Module-1032 (pg. 116)              | 23. XFD Dripline (pg. 127)                      |
| 6. Xeri-Bug Emitter (pg. 112)            | 15. PolyFlex Riser Assembly (pg. 124)     | 24. Tubing Cutter (pg. 143)                     |
| 7. 1/4" Tubing Stake (pg. 123)           | 16. Xeri-Bug Emitter - 1/2" FPT (pg. 112) | 25. Xeri-Bird 8 (pg. 115)                       |

## Targeted Watering with Landscape Drip

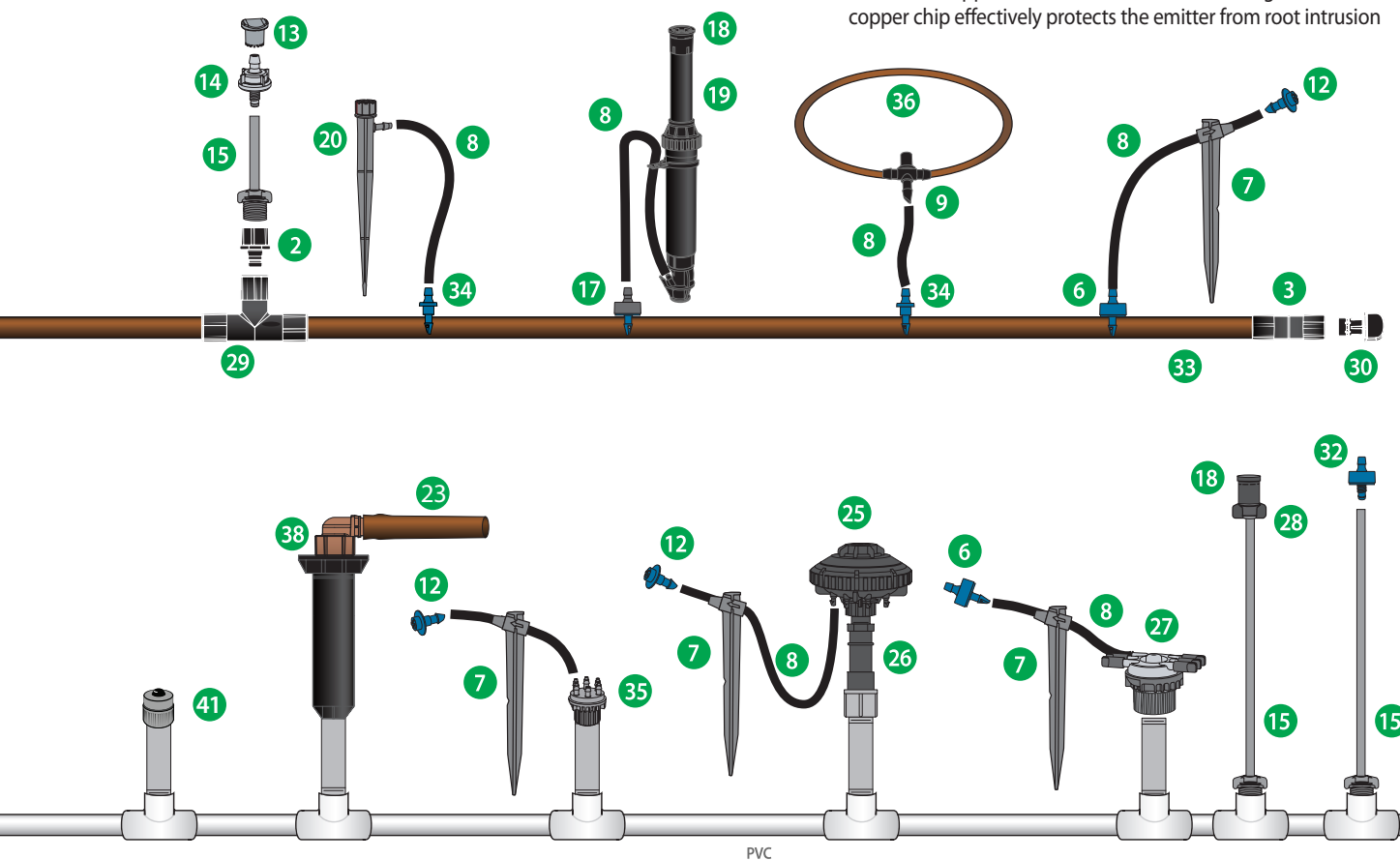
Rain Bird Xerigation®/Landscape Drip products are made especially for low-volume irrigation systems. By delivering water at or near the plants' root zones, Rain Bird Xerigation® products offer targeted watering with the following advantages:

- Water conservation
- Greater efficiency (target each plant)
- Design flexibility; simple construction and easily expandable
- Healthier plants
- Reduced liability (e.g. no overspray, no runoff)
- Minimization of weed growth
- Cost savings

## Broadest Product Line in the Industry

With over 150 products, Rain Bird has the products needed for your application. Systems can be designed to meet any site requirements and offer many exclusive Rain Bird advances including:

- Flexible XF Series dripline with advanced polymers that provide kink-resistance and reduced coil memory for easier installation
- Compact Control Zones with combined pressure regulator and filter to reduce parts, potential leak problems, and allow for fitting more Control Zones in a valve box
- Precision low volume SQ spray nozzles that offer a square wetting pattern and adjust to either 2.5' or 4' throw distances
- Point-source emitters that provide pressure compensation with a wide selection of flow rates and three inlet options (Barb, 1032 threaded, and ½" FPT)
- XFS and XFS-CV dripline with Copper Shield Technology™ for use in sub-surface applications under turf or shrub and groundcover areas. The copper chip effectively protects the emitter from root intrusion

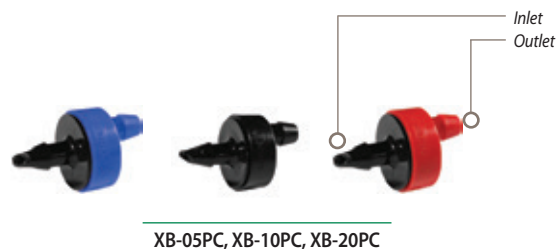


- 26. Retrofit Pressure Regulator (pg. 155)
- 27. 6 Outlet Manifold (pg. 114)
- 28. SQ Series Nozzle Adapter (pg. 118)
- 29. Easy Fit Tee (pg. 138)
- 30. Easy Fit Flush Cap (pg. 138)
- 31. Purple XF Dripline (pg. 127)
- 32. Xeri- Bug Emitter - 1032 (pg. 112)
- 33. XF Series Blank Tubing (pg. 140)
- 34. ¼" Barb Connector (pg. 143)

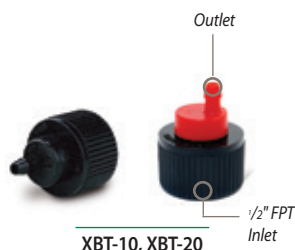
- 35. Multi-Outlet Xeri-Bug (pg. 114)
- 36. ¼" Landscape Dripline (pg. 142)
- 37. XFS-CV Sub-Surface Dripline with Copper Shield Technology (pg. 133)
- 38. RETRO-1800 Spray-to-Drip Retrofit Kit (pg. 159)
- 39. XT-025 ½" FPT x Barb Grey Transfer Fitting (pg. 114)
- 40. XFF Coupling (pg. 137)
- 41. PCT Bubbler (pg. 116)

- 42. XFCV Dripline with Heavy-Duty check valve (pg. 129)
- 43. RWS (Root Watering System) (pg. 125)
- 44. XF Insertion Tool (pg. 139)
- 45. PEB Valve (pg. 67)
- 46. Quick-Check Pressure Regulating Filter (pg. 157)
- 47. QF Dripline Header (pg. 135)
- 48. XF Series Dripline (XFD/XFS/XFCV/XFS-CV) (pg. 127-133)
- 49. Operation Indicator (pg. 139)
- 50. Twist Lock Fittings (pg. 136)





1032-threaded models are specifically designed to be used with PolyFlex Risers, 1032 thread adapters (1032-A), or 1800 Xeri-Bubbler Adapter (XBA-1800)



## Xeriman™ Tool

### Features

- Provides fast, easy, one-step installation of Xeri-Bug™ emitters and PC Modules directly into 1/2" or 3/4" drip tubing, XF Dripline or Landscape Dripline
- Cuts emitter installation time
- All-in-one tool inserts emitters, removes emitters, inserts 1/4" barbed fittings and installs goof plugs

### Model

- XM-TOOL



One Step  
Xeri-Bug™  
Insertion



Xeri-Bug™  
Removal



Goof Plug  
Insertion

## Xeri-Bug™ Emitters

Point-Source Low-Flow Emitters for Watering the Root Zones of Plants, Trees, and Container Plants

### Features

- The only emitters with self-piercing barbs, making them the easiest to install using the Xeriman™ tool
- Widest selection of pressure-compensating emitters, with 3 flow rates and 3 inlet options
- Most compact and unobtrusive emitters
- Flow-rates of 0.5, 1.0 and 2.0 gph (1.89, 3.79 and 7.57 l/h)
- Pressure-compensating design delivers uniform flow throughout a wide pressure range (15 to 50 psi; 1.0 to 3.5 bar)
- Available with 3 different inlets (1.0 and 2.0 models):
  - Self-piercing barb for quick, one-step insertion into 1/2" or 3/4" drip tubing
  - 10-32 threaded inlet that easily threads into a PolyFlex Riser (see page 124), 1032 Thread adapter (page 124) or 1800 Xeri-Bubbler Adapter (page 124)
  - 1/2" FPT inlet that easily threads onto a 1/2" PVC riser (1.0 and 2.0 gph models)
- Outlet barb securely retains 1/4" Distribution Tubing (XQ)
- Design makes installation and maintenance easy
  - Self-flushing action minimizes clogging
  - Robust design made from highly inert materials that are resistant to chemicals
  - Durable plastic construction is UV-resistant
- Color-coded to identify flow rate

### Operating Range

- Flow: 0.5 to 2.0 gph (1.89 to 7.57 l/h)
- Pressure: 15 to 50 psi (1.0 to 3.5 bar)
- Required filtration: 150 to 200 mesh (75 to 100 micron)

### Models: 10-32 thread inlet x barb outlet

- XB-05PC-1032: Blue, 0.5 gph (1.89 l/h)
- XB-10PC-1032: Black, 1.0 gph (3.79 l/h)
- XB-20PC-1032: Red, 2.0 gph (7.57 l/h)

### Models: 1/2" FPT inlet x barb outlet

- XBT-10: Black, 1.0 gph (3.79 l/h)
- XBT-20: Red, 2.0 gph (7.57 l/h)

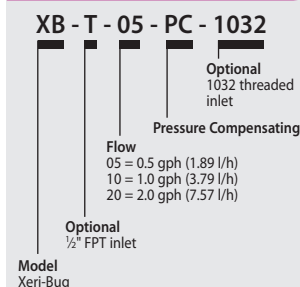
### Models: barb inlet x barb outlet

- XB-05PC: Blue, 0.5 gph (1.89 l/h)
- XB-10PC: Black, 1.0 gph (3.79 l/h)
- XB-20PC: Red, 2.0 gph (7.57 l/h)

### Xeri-Bug Emitter Bag Quantities and Models

Flow Rate	Color	Bag Qty.	Model Number
0.5 GPH (1.89 l/h)	Blue	25 100 8000	XB05PC XB05PCBULK XB05MAXPAK
1.0 GPH (3.79 l/h)	Black	25 100 8000	XB10PC XB10PCBULK XB10MAXPAK
2.0 GPH (7.57 l/h)	Red	25 100 8000	XB20PC XB20PCBULK XB20MAXPAK

### How to Specify



### Xeri-Bug Emitter Specifications and Models

Model	Inlet Type/Color	Nominal Flow gph	Filtration Required mesh
XB-05PC	Barb/Blue	0.5	200
XB-10PC	Barb/Black	1.0	150
XB-20PC	Barb/Red	2.0	150
XB-05PC1032	10-32T/Blue	0.5	200
XB-10PC1032	10-32T/Black	1.0	150
XB-20PC1032	10-32T/Red	2.0	150
XBT-10PC	1/2" FPT/Black	1.0	150
XBT-20PC	1/2" FPT/Black	2.0	150

### Xeri-Bug Emitter Specifications and Models

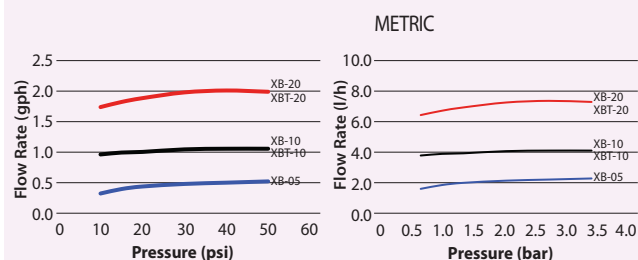
#### METRIC

Model	Inlet Type/Color	Nominal Flow l/h	Filtration Required micron
XB-05PC	Barb/Blue	1.89	75
XB-10PC	Barb/Black	3.79	100
XB-20PC	Barb/Red	7.57	100
XB-05PC1032	10-32T/Blue	1.89	75
XB-10PC1032	10-32T/Black	3.79	100
XB-20PC1032	10-32T/Red	7.57	100
XBT-10PC	1/2" FPT/Black	3.79	100
XBT-20PC	1/2" FPT/Black	7.57	100



Xeri-Bug™ Emitter, TS025-1/4" stake, and DBC025 Diffuser Bug Cap

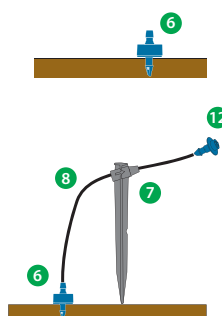
### Xeri-Bug Emitter Performance



(For reference numbers below, please see the  
System Overview page 110)

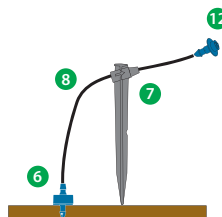
#### Installation Option 1\*

Using a Xeriman Tool, insert an emitter directly into 1/2" or 3/4" drip tubing or between dripline emitters as needed.



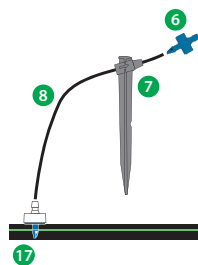
#### Installation Option 2\*

For more precise water placement, use 1/4" distribution tubing, a 1/4" tubing stake, and a bug cap.



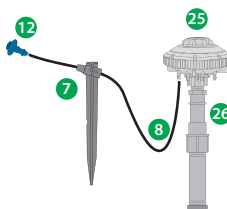
#### Installation Option 3

For precise water placement, a barbed connector can be punched into distribution tubing. The emitter is then placed at the end of the 1/4" distribution tubing. NOTE: should the emitter become dislodged, unregulated flow will occur.



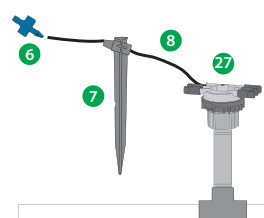
#### Installation Option 4\*

The Xeri-Bird 8 provides a centralized location for up to eight emitters. A mix of Xeri-Bug and/ or PC emitters can be used to provide the flow rates needed for different plant materials. Tentacles of 1/4" distribution tubing, 1/4" tubing stakes, and bug caps allow for precise water placement.



#### Installation Option 5

The 6 Outlet Manifold provides a centralized water distribution connection for up to six emission devices. Connect the 1/4" distribution tubing to one of the outlets. Use a 1/4" tubing stake to ensure precise water placement. The emitter is placed on the end of the 1/4" distribution tubing to regulate the water flow. NOTE: should the emitter become dislodged, unregulated flow will occur.



\* Preferred installation options, which  
provide flow regulation at the source.

## Multi-Outlet Xeri-Bug™

### Features

- Pressure compensating design delivers uniform flow throughout a wide pressure range (15 to 50 psi; 1.0 to 3.5 bar)
- Six-outlet emitter supplied with one outlet opened. Simply clip the outlet tips open with snips or clippers for additional operational ports
- Barbed outlets retain 1/4" Distribution Tubing (XQ)
- Self-flushing action minimizes clogging
- Durable, UV-resistant color-coded plastic housing

### Operating Range

- Flow: 0.5, 1.0 or 2.0 gph (1.89, 3.79 or 7.57 l/h)
- Pressure: 15 to 50 psi (1.0 to 3.5 bar)
- Filtration: 150-mesh (100-microns)

### Models: barb inlet x barb outlet

- XB-05-6: Blue, 0.5 gph (1.89 l/h)
- XB-10-6: Black, 1.0 gph (3.79 l/h)
- XB-20-6: Red, 2.0 gph (7.57 l/h)

### Models: 1/2" FPT inlet x barb outlet

- XBT-05-6: Blue, 0.5 gph (1.89 l/h)
- XBT-10-6: Black, 1.0 gph (3.79 l/h)
- XBT-20-6: Red, 2.0 gph (7.57 l/h)

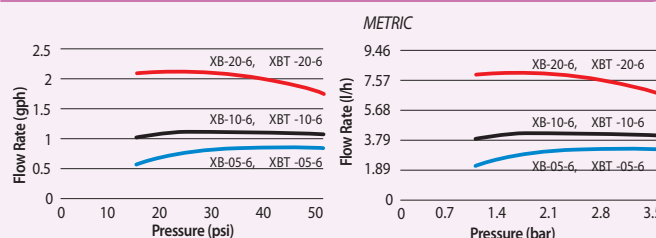


XB-05-6, XB-10-6, XB-20-6



XBT-05-6, XBT-10-6, XBT-20-6

### Multi-Outlet Xeri-Bug Emitter Performance



## 6 Outlet Manifold - EMT-6XERI

### Features

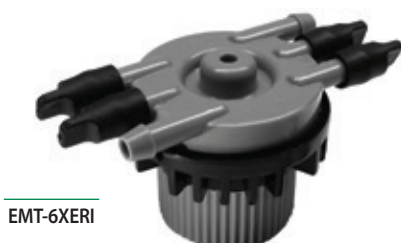
- 1/2" FPT inlet threads onto 1/2" riser and provides a manifold with six free-flowing 1/4" barb outlets
- Each barb outlet is sealed with a durable plastic cap
- Plastic caps remove easily, allowing for a drip area that can be customized with up to six different emission devices
- Attach 1/4" Distribution Tubing (XQ) onto each outlet for use with: Xeri-Bugs, PC Modules, Xeri-Pops, Xeri-Sprays, and Xeri-Bubblers

### Operating Range

- Pressure: 15 to 50 psi (1.0 to 3.5 bar)
- Required filtration: 150 mesh (100 microns)

### Model

- EMT-6XERI



EMT-6XERI

## 1/4" Self-Piercing Barb Connector

### Features

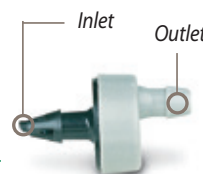
- Used to connect 1/4" Distribution Tubing into 1/2" or 3/4" distribution tubing
- Self-piercing barb inlet is easily inserted into 1/2" or 3/4" distribution tubing using a Xeriman™ Tool (XM-Tool)
- Outlet barb accepts 1/4" Distribution Tubing (XQ). Gray outlet barb indicates unit has unrestricted flow

### Operating Range

- Pressure: 0 to 50 psi (0 to 3.5 bar)

### Model

- SPB-025



SPB-025

## 1/2" FPT x Barb Grey Transfer Fitting

### Features

- Grey outlet to designate open flow
- 1/2" FPT inlet can be easily attached to a schedule 80 riser or the top of an 1800 Retro
- Barbed outlet so 1/4" distribution tubing or 1/4" drip tubing can be easily and securely attached

### Operating Range

- Pressure: 0 to 50 psi (0 to 3.5 bar)

### Model

- XT025



XT025

## Xeri-Bird™ 8-Outlet Emission Device

The Most Flexible and Feature-Rich Multi-Outlet Device on the Market, Ideal for New Projects and Retrofit Applications

### Features

- The only multi-outlet device on the market with 8 configurable ports and 10 flow options for each port for maximum flexibility
- XBD-80 and XBD-81 models each contain a built-in filter. Makes retrofitting easy when installed with the optional in-stem pressure regulator (PRS-050 page 155)
- Easy to maintain, because body can be easily removed from riser
- Threads onto any 1/2" riser and delivers water to multiple locations for increased system flexibility
- Each port accepts a Xeri-Bug™ Emitter or PC Module for independent flows from 0.5 to 24 gph (1.89 to 90.84 l/h) or use a self-piercing barb connector (SPB-025) for unrestricted flow
- XBD-80 and XBD-81 models each feature an integral 200 mesh (75 micron) filter which is easily serviceable from the top of the unit
- Eight bottom-mounted, sure-grip barbed outlets securely retain 1/4" Distribution Tubing (XQ)
- Unique union base nut allows removal of Xeri-Bird 8 body from riser for easy installation and maintenance
- Emitters must be installed inside the Xeri-Bird to prevent excess back pressure

### Operating Range

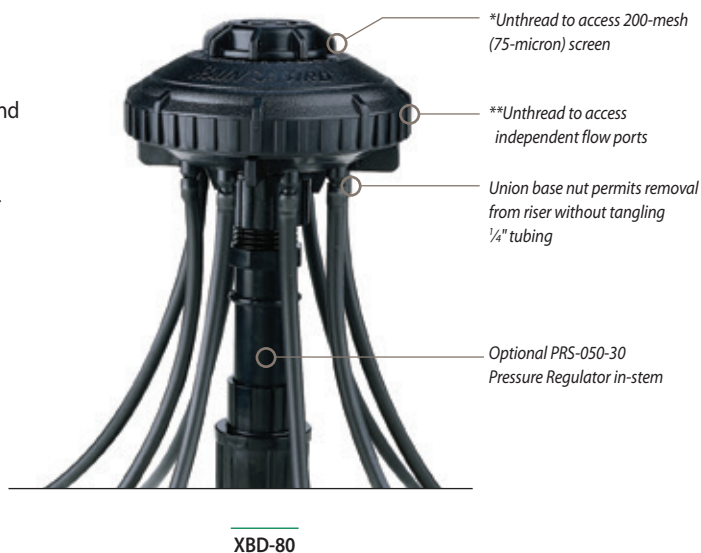
- Flow: 0.5 to 24 gph (1.89 to 90.84 l/h) per outlet
- Pressure: 15 to 50 psi (1.0 to 3.5 bar)

### Models

- XBD-80: Xeri-Bird 8 unit (includes 7 removable port plugs and filter)
- XBD-81: Xeri-Bird 8 unit (includes eight 1 gph (3.79 l/h) Xeri-Bug emitters factory installed, and filter)

### Replacement Parts:

- XBD8SCRN: replacement screen and two o-rings



Each port can be configured on the Xeri-Bird™ by installing flow controlled emitters. Above shows a combination of 0.5, 1.0, and 2.0 gph Xeri-Bug emitters.



**Helpful Hint:** Always install emitters with the pointed end (inlet barb) or threaded end up, as shown

\* Must be installed second  
\*\* Must be installed first





PC-05, PC-07, PC-10



PC-12, PC-18, PC-24



PC-05-1032, PC-07-1032, PC-10-1032

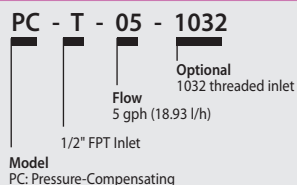
10-32-threaded models are specifically designed to be used with PolyFlex Risers, 10-32 thread adapters (1032-A), or 1800 Xeri-Bubbler Adapter (XBA-1800)



PCT-05, PCT-07, PCT-10

• 1/2" FPT inlet that easily threads onto a 1/2" PVC riser

## How to Specify



## Pressure-Compensating Modules

Point-Source Medium-Flow Emitters for Watering Larger Shrubs and Trees

### Features

- The only emitters with self-piercing barbs, making them the easiest to install using the Xeriman™ tool
- Widest selection of pressure-compensating emitters, with 6 flow rates and 3 inlet options
- Most compact and unobtrusive emitters
- Flow rates from 5 to 24 gph (18.93 to 90.84 l/h)
- Pressure-compensating design delivers uniform flow throughout a wide pressure range (10 to 50 psi; 0.7 to 3.5 bar)
- Available with 3 different inlets:
  - Self-piercing barbs for quick one-step emitter insertion into 1/2" or 3/4" drip tubing
  - 10-32 threaded inlet that easily threads into a PolyFlex Riser (see page 124), 1032 Thread adapter (page 124) or 1800 Xeri-Bubbler Adapter (page 124)
  - 1/2" FPT inlet that easily threads onto a 1/2" PVC riser
- Robust design - durable plastic construction is UV-resistant and color-coded to identify flow rate

### Operating Range\*

- Flow: 5 to 24 gph (18.93 to 90.84 l/h)
- Pressure: 10 to 50 psi (0.7 to 3.5 bar)
- Required filtration: 100 mesh (150 micron)

\* **IMPORTANT NOTE:** Use a PC Diffuser Cap to eliminate squirting water when using a PC Module staked at the end of 1/4" Distribution Tubing (XQ) or on a PolyFlex Riser (PFR/FRA)

### Models: barb inlet x barb outlet

- PC-05: Light brown, 5 gph (18.93 l/h)
- PC-07: Violet, 7 gph (26.50 l/h)
- PC-10: Green, 10 gph (37.85 l/h)
- PC-12: Dark brown, 12 gph (45.42 l/h)
- PC-18: White, 18 gph (68.13 l/h)
- PC-24: Orange, 24 gph (90.84 l/h)

### Models: 10-32 thread inlet x barb outlet

- PC-05-1032: Light brown, 5 gph (18.93 l/h)
- PC-07-1032: Violet, 7 gph (26.50 l/h)
- PC-10-1032: Green, 10 gph (37.85 l/h)

### Models: 1/2" FPT thread Inlet

- PCT-05: Light Brown, 5 gph (18.93 l/h)
- PCT-07: Violet, 7 gph (26.50 l/h)
- PCT-10: Green, 10 gph (37.85 l/h)

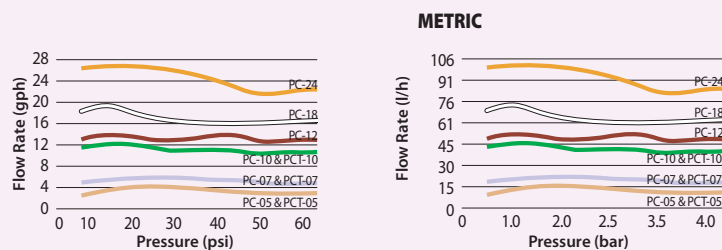


## Pressure-Compensating Modules

Pressure-Compensating Module Models			
Model	Inlet Type/ Outlet/Color	Nominal Flow gph	Filtration Required mesh
PC-05	Barb / light brown	5	100
PC-07	Barb / violet	7	100
PC-10	Barb / green	10	100
PC-12	Barb / dark brown	12	100
PC-18	Barb / white	18	100
PC-24	Barb / orange	24	100
PC-05-1032	10-32T / light brown	5	100
PC-07-1032	10-32T / violet	7	100
PC-10-1032	10-32T / green	10	100
PCT-05	NPT / light brown	5	100
PCT-07	NPT / violet	7	100
PCT-10	NPT / green	10	100

Pressure-Compensating Module Models			METRIC
Model	Inlet Type/ Outlet/Color	Nominal Flow l/h	Filtration Required micron
PC-05	Barb / light brown	18.93	150
PC-07	Barb / violet	26.50	150
PC-10	Barb / green	37.85	150
PC-12	Barb / dark brown	45.42	150
PC-18	Barb / white	68.13	150
PC-24	Barb / orange	90.84	150
PC-05-1032	10-32T / light brown	18.93	150
PC-07-1032	10-32T / violet	26.50	150
PC-10-1032	10-32T / green	37.85	150
PCT-05	NPT / light brown	18.93	150
PCT-07	NPT / violet	26.50	150
PCT-10	NPT / green	37.85	150

### Pressure-Compensating Modules & Bubblers Performance



## PC Diffuser Caps



PC Diffuser Caps are designed to fit onto outlet of pressure-compensating drip modules

**Models:** (see page 123 for complete information)

- PC-DIFFUSER: Black
- PC-DIFF-PPL: Purple, to designate non-potable water

PC Module (PC-10-1032) with PC Diffuser Cap (PC-DIFFUSER) on PolyFlex Riser (PFR-PFA) (PolyFlex Risers available in 12" and 24" models - p. 124)

