

H5 Pressure Compensating Heavywall Dripline



Rain Bird® H5 Pressure Compensating Heavywall Dripline is built to precisely deliver irrigation with market leading efficiency for a wide variety of applications. H5 features precise emitter spacing and GritX™ Emitter Technology to ensure precision flow rates even in the presence of grit and debris. H5 emitters are proudly built by Rain Bird and assembled in the USA utilizing advanced technology and patented manufacturing processes that flow test each emitter.

Features

- Emitter spacing on H5 dripline is measured to exact specifications because precision agriculture demands precision products
- Long-lasting, flexible, kink-free tubing resistant to chemicals and UV radiation made from unique resin blends developed by our in-house material scientists
- Advanced coiling technology and materials help H5 dripline lay flat. Two green stripes border the emitter, helping orient the tubing for your application
- Backed by our worry-free Customer Satisfaction Policy: 5 years on product workmanship, and 7 years environmental stress cracking resistance

Applications

- Traditional surface drip irrigation applications
- Agriculture, Greenhouse, and Nursery use

- Best suited for permanent crops, orchard and vineyard applications including grapes, hops, stone fruit, almonds, walnuts, pistachios, blueberries, and pecans
- High-frequency irrigation on flat, sloped or rolling terrain
- Poor quality or challenging water conditions

Specifications

Operating Range:

- **Regulating Pressure:** 7 to 60 psi (0.48 to 4.14 bar)
- **Water Temperature:** Up to 110°F (43.3°C)
- **Ambient Temperature:** Up to 150°F (65.6°C)

Filtration:

- 120 mesh (125 micron) required

Nominal Flow Rates:

- 0.31 gph, 0.42 gph, 0.53 gph, 0.61 gph, 0.93 gph, 1.06 gph (1.2 l/h, 1.6 l/h, 2.0 l/h, 2.3 l/h, 3.5 l/h, 4.0 l/h)

Standard Emitter Spacing:

- 12", 18", 24", 30", 36", 42", 48", 60"
- 20cm, 30cm, 40cm, 45cm, 50cm, 60cm, 75cm, 100cm
- Custom spacing available

Tubing Dimensions:

- 16mm, 35mil (OD 0.610", ID 0.540", wall thickness 0.035")
- 16mm, 45mil (OD 0.630", ID 0.540", wall thickness 0.045")
- 18mm, 45mil (OD 0.709", ID 0.619", wall thickness 0.045")
- 20mm, 48mil (OD 0.786", ID 0.690", wall thickness 0.048")

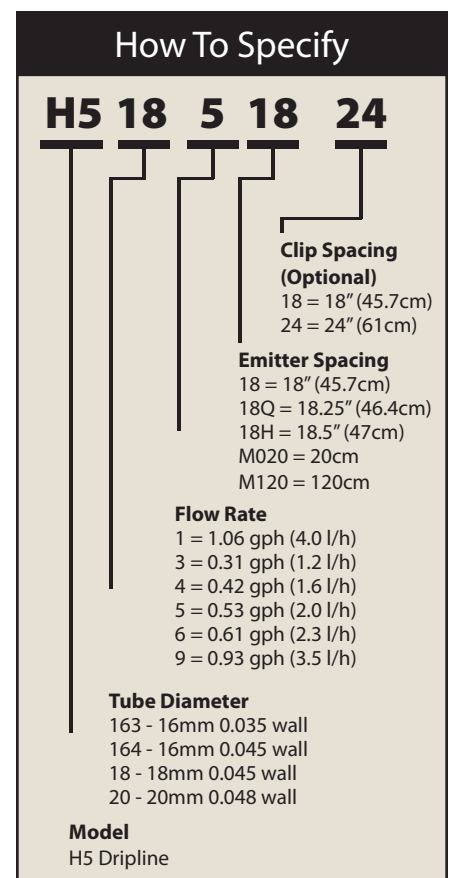
Packaging Data

- Standard coil length: 1,000'
- Call 1-800-HELLO-AG for big reel and 500m options
- Standard pallet quantity: 16 coils



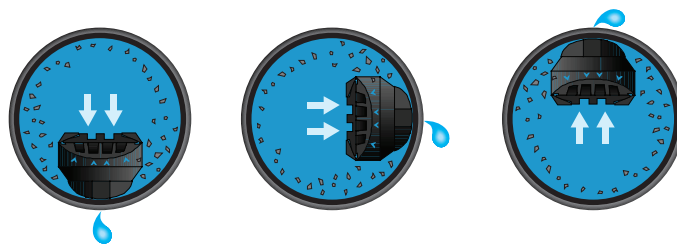
Vine Clips

- Factory installed during extrusion, vine clips reduce labor and installation time in the field
- Improves control of water placement and easily adjustable to direct water droplets on the plant
- Constructed of engineering grade plastic with unparalleled strength on the wire
- Low profile for mechanical harvesting

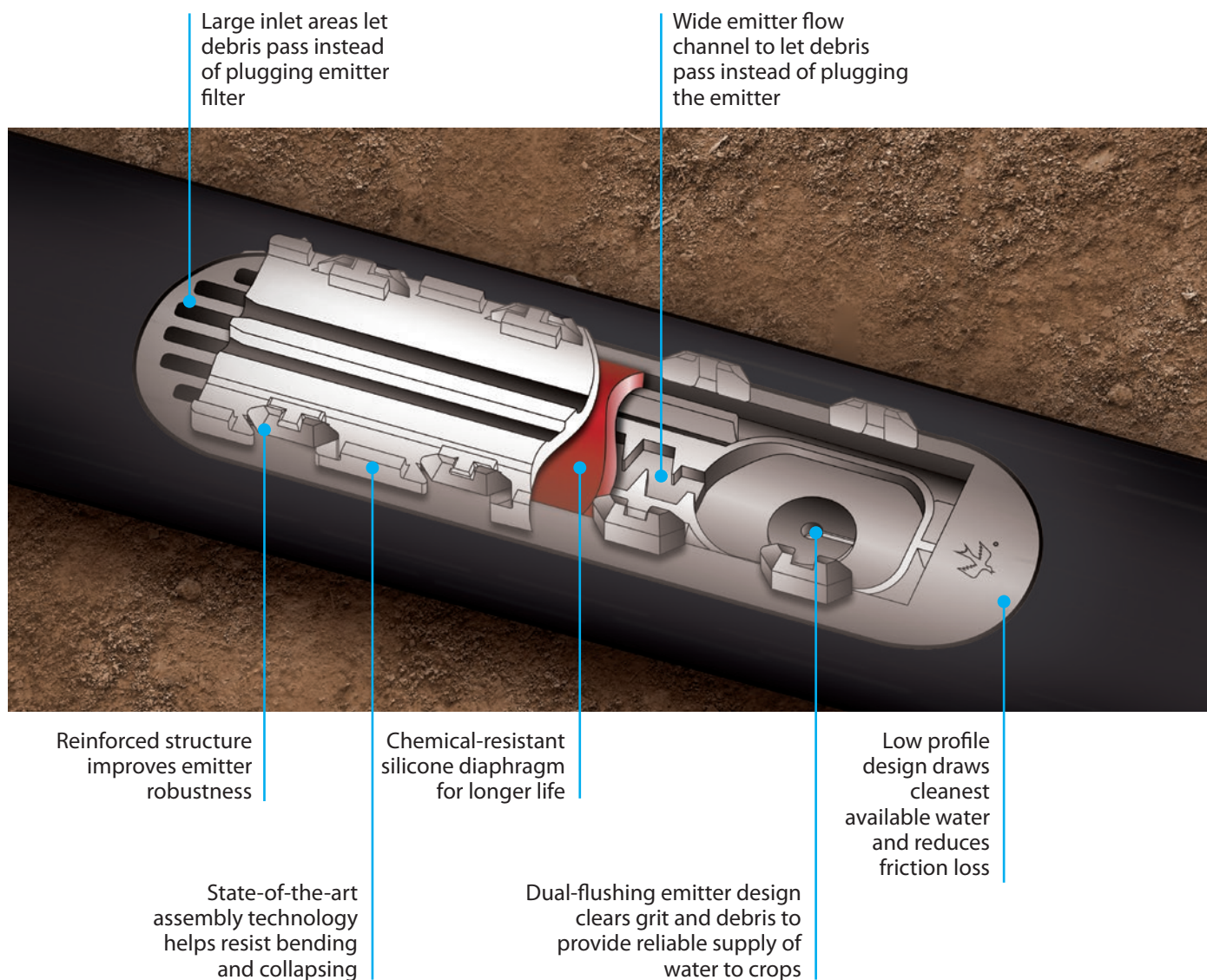


H5 Pressure Compensating Heavywall Dripline With GritX™ Emitter Technology

GritX Emitter Technology ensures a steady flow of water to crops by drawing clean water from the center of the tubing rather than the dirtier water near the side walls. Most grit and debris flows along the tubing wall without entering the emitter. The debris that does enter is easily passed through the large inlet filters and along the emitter's wide flow channel. The dual-flushing design forces grit out of the emitter automatically, preventing clogs that can potentially harm crops. The result is a consistent water flow and even distribution of water.



Emitter design pulls clean water from center of tube, adding another layer of protection against clogging.



H5 16 mm Headloss and Lateral Length

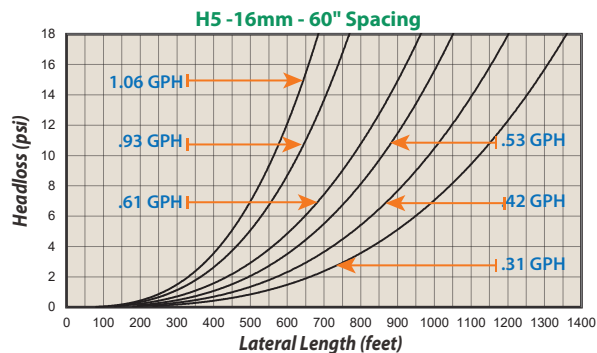
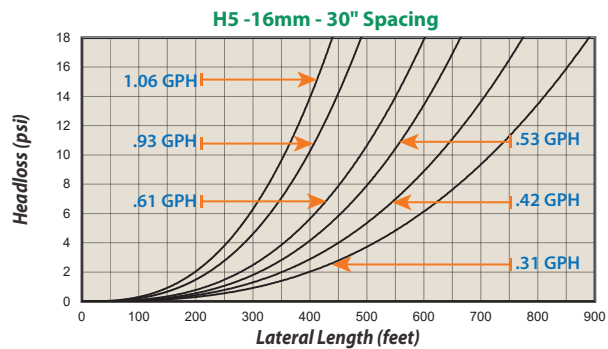
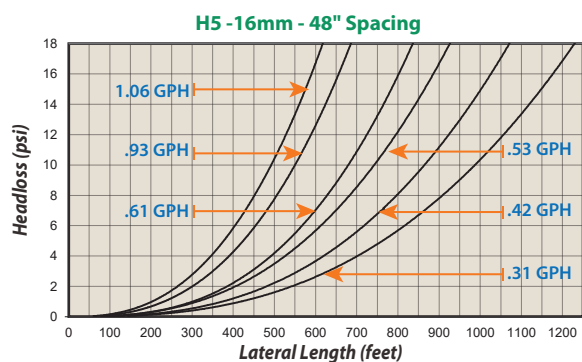
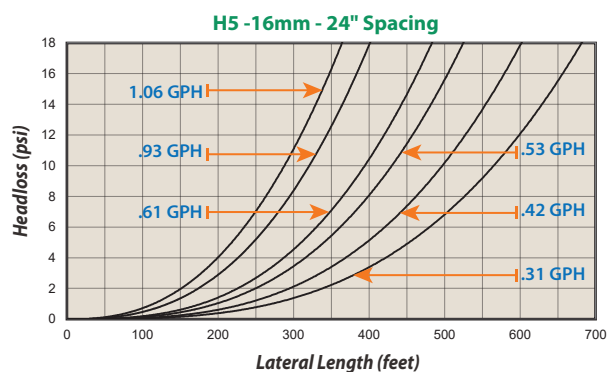
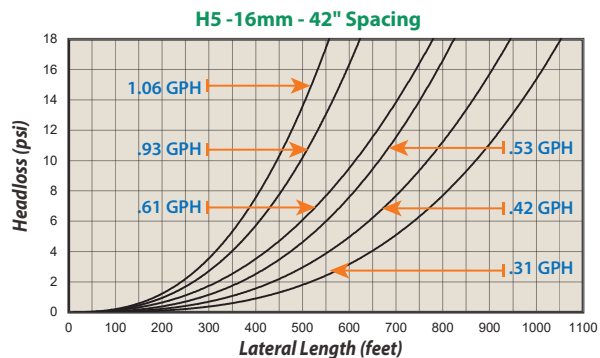
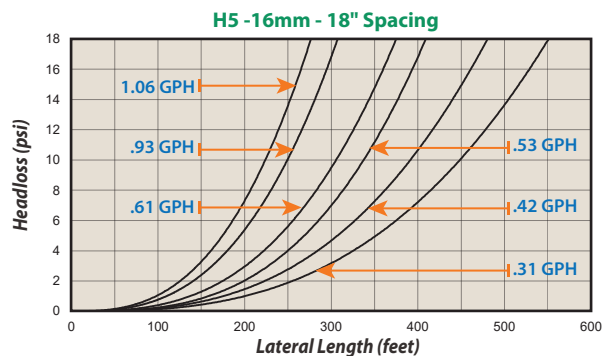
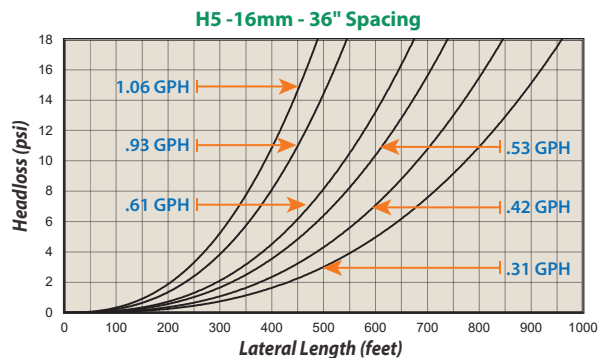
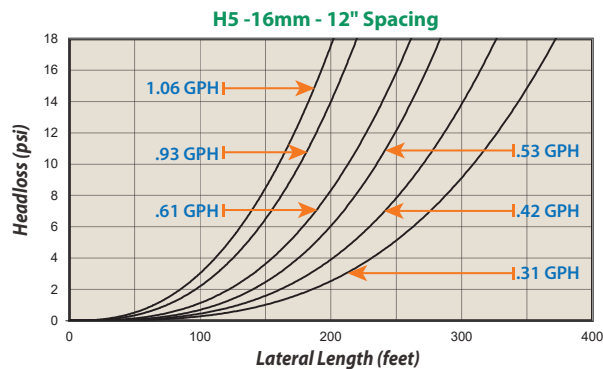
CALCULATING LATERAL LENGTH INLET PRESSURE

Line End Pressure*
 + Pressure Loss (from graph)
 = Inlet Pressure

*Minimum pressure at lateral length end = 7 psi.

Example:

H5 18" Spacing 7 psi (end pressure)
 0.53 gph, 350' Run + 12 psi (from graph)
 Minimum Inlet Pressure = 19 psi



H5 18 mm Headloss and Lateral Length

CALCULATING LATERAL LENGTH INLET PRESSURE

Line End Pressure*

+ Pressure Loss (from graph)

= Inlet Pressure

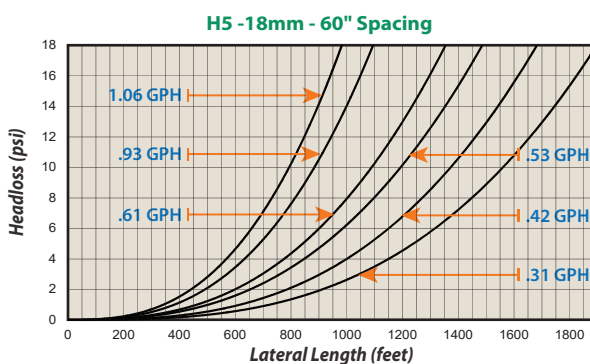
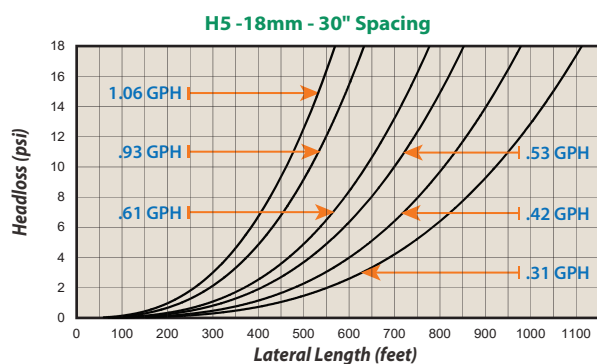
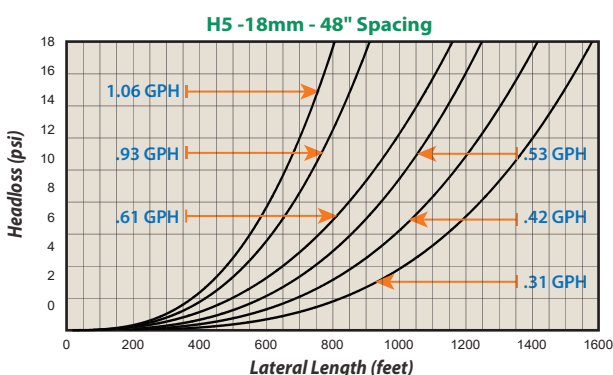
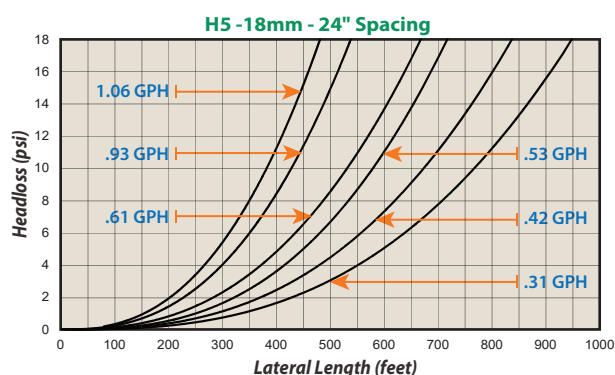
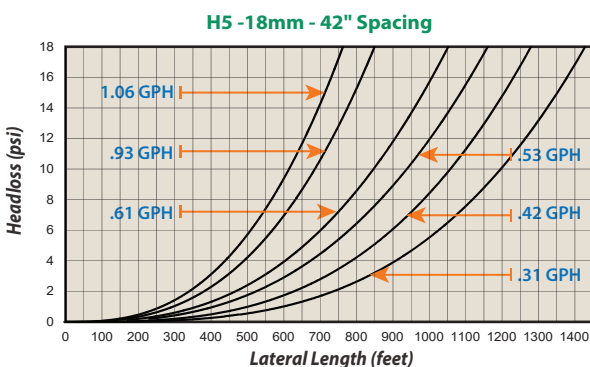
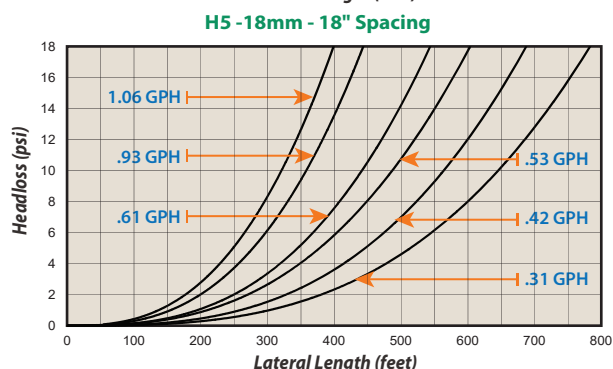
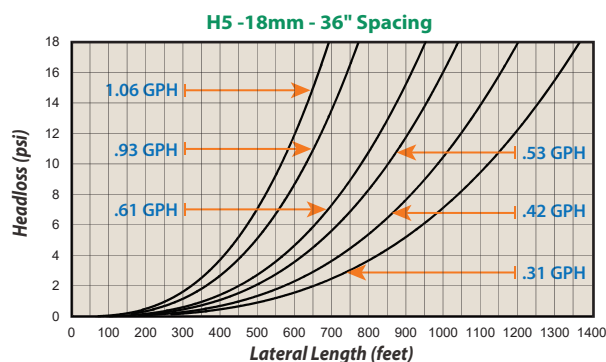
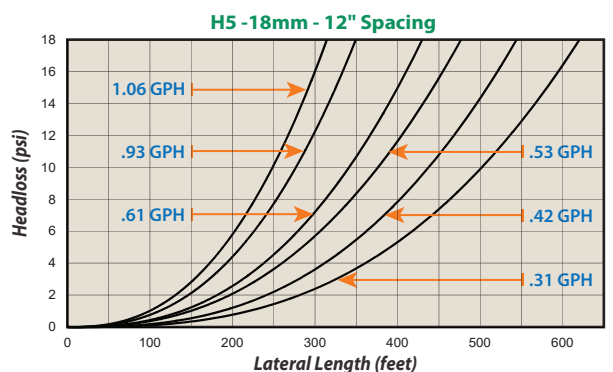
*Minimum pressure at lateral length end = 7 psi.

Example:

H5 18" Spacing 7 psi (end pressure)

0.53 gph, 500' Run + 11 psi (from graph)

Minimum Inlet Pressure = 18 psi



H5 20 mm Headloss and Lateral Length

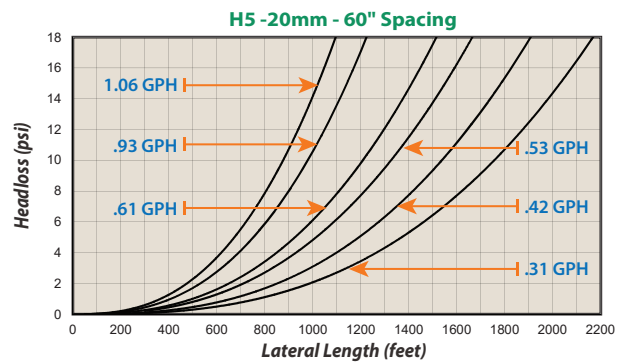
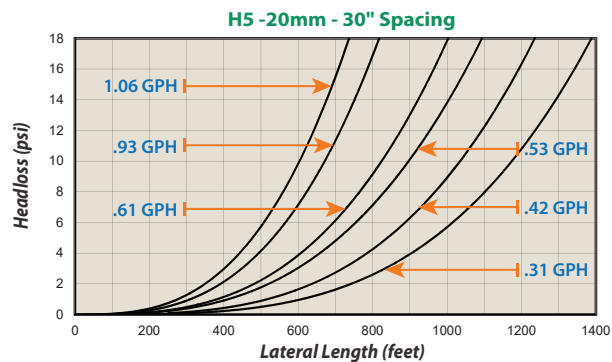
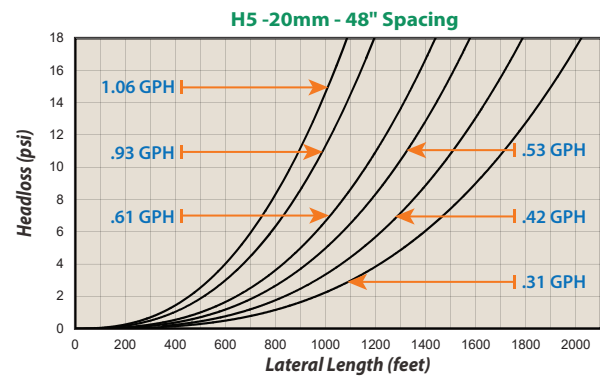
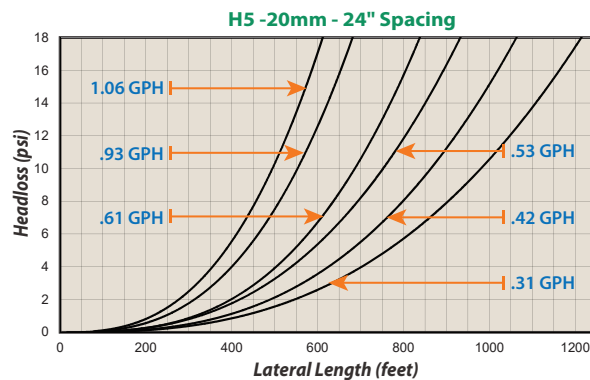
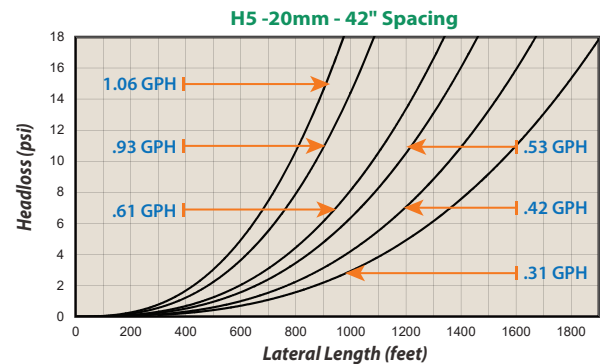
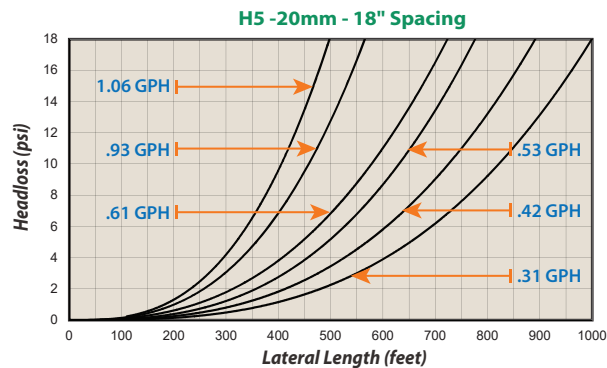
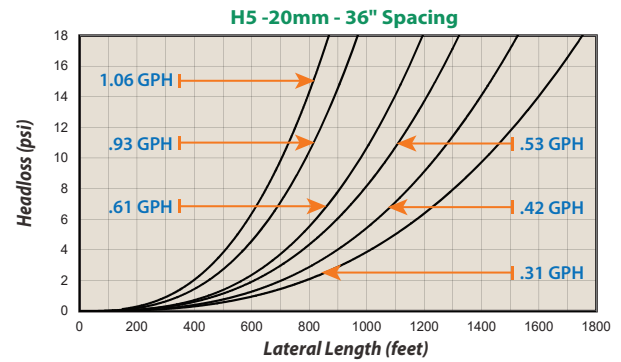
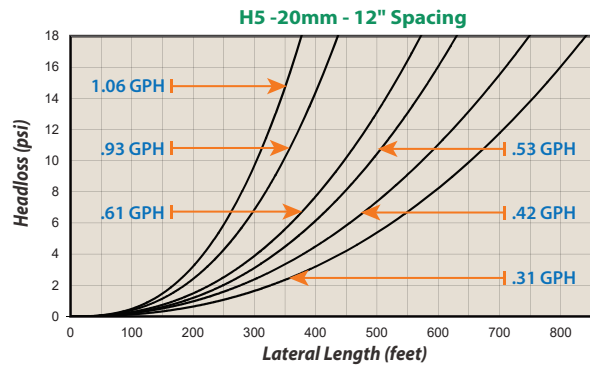
CALCULATING LATERAL LENGTH INLET PRESSURE

$$\begin{aligned} &\text{Line End Pressure*} \\ &+ \text{Pressure Loss (from graph)} \\ &= \text{Inlet Pressure} \end{aligned}$$

*Minimum pressure at lateral length end = 7 psi.

Example:

$$\begin{aligned} &\text{H5 18" Spacing} && 7 \text{ psi (end pressure)} \\ &0.53 \text{ gph, 700' Run} && + 14 \text{ psi (from graph)} \\ &\text{Minimum Inlet Pressure} && = 21 \text{ psi} \end{aligned}$$



A legacy of agricultural innovation.

Rain Bird has a rich history serving the agricultural community. Beginning in 1933 with the invention of the original horizontal action impact drive sprinkler by a Glendora, California citrus farmer (U.S. Patent #1,997,901), Rain Bird revolutionized the food production industry and ushered in a new era in irrigation, worldwide. The original impact sprinkler was designated a historical landmark in 1990 by the American Society of Agricultural Engineers.

For over eighty years, we've been developing new and innovative products that water more intelligently and our work is not done yet. Rain Bird has been awarded hundreds of patents for innovative irrigation products and technologies that are used in over 130 countries to irrigate nearly every imaginable crop. Rain Bird is committed to The Intelligent Use of Water™, bringing its expertise and knowledge to further increase irrigation efficiency, minimize maintenance costs and enhance the health of crops.

Visit www.rainbird.com/ag for more information.



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