Hunter Product Written Specification Template (HDL)

**Part 1 – General**

* 1. The Hunter Dripline (HDL) family of products includes HDL-PC, HDL-CV, and HDL-R. HDL provides consistent irrigation at designated flows and emitter spacing and conforms to an inside diameter (ID) of 0.560" (14,2 mm) and an outside diameter (OD) of 0.660" (16,8 mm). The HDL-CV incorporates a check valve function that will hold back up to 6' (1,8 m) of elevation (2.6 PSI; 0,2 bar check valve).

**Part 2 – Parts and Material**

2.1Triple-layer, co-extruded, pressure-compensating HDL dripline manufactured by Hunter Industries. Pressure-compensating inline emitters installed during extrusion process at factory shall have regular intervals and flows as specified by model.

Dripline shall be available in the following options:

1. PLD-PC
	1. HDL-06-12-XXX-PC; 0.6 GPH (2,1 l/hr) emitters spaced at 12" (30,5 cm) on center
	2. HDL-06-18-XXX-PC; 0.6 GPH (2,1 l/hr) emitters spaced at 18" (45,7 cm) on center
	3. HDL-09-12-XXX-PC; 0.9 GPH (3,4 l/hr) emitters spaced at 12" (30,5 cm) on center
	4. HDL-09-18-XXX-PC; 0.9 GPH (3,4 l/hr) emitters spaced at 18" (45,7 cm) on center
2. PLD-CV
	1. HDL-04-12-XXX-CV; 0.4 GPH (1,5 l/hr) emitters spaced at 12" (30,5 cm) on center
	2. HDL-04-18-XXX-CV; 0.4 GPH (1,5 l/hr) emitters spaced at 18" (45,7 cm) on center
	3. HDL-04-24-XXX-CV; 0.4 GPH (1,5 l/hr) emitters spaced at 24" (61,0 cm) on center
	4. HDL-06-12-XXX-CV; 0.6 GPH (2,1 l/hr) emitters spaced at 12" (30,5 cm) on center
	5. HDL-06-18-XXX-CV; 0.6 GPH (2,1 l/hr) emitters spaced at 18" (45,7 cm) on center
	6. HDL-06-24-XXX-CV; 0.6 GPH (2,1 l/hr) emitters spaced at 24" (61,0 cm) on center
	7. HDL-09-12-XXX-CV; 0.9 GPH (3,4 l/hr) emitters spaced at 12" (30,5 cm) on center
	8. HDL-09-18-XXX-CV; 0.9 GPH (3,4 l/hr) emitters spaced at 18" (45,7 cm) on center
	9. HDL-09-24-XXX-CV; 0.9 GPH (3,4 l/hr) emitters spaced at 24" (61,0 cm) on center
3. PLD-R
	1. HDL-04-12-XXX-R; 0.4 GPH (1,5 l/hr) emitters spaced at 12" (30,5 cm) on center
	2. HDL-04-18-XXX-R; 0.4 GPH (1,5 l/hr) emitters spaced at 18" (45,7 cm) on center
	3. HDL-04-24-XXX-R; 0.4 GPH (1,5 l/hr) emitters spaced at 24" (61,0 cm) on center
	4. HDL-06-12-XXX-R; 0.6 GPH (2,1 l/hr) emitters spaced at 12" (30,5 cm) on center
	5. HDL-06-18-XXX-R; 0.6 GPH (2,1 l/hr) emitters spaced at 18" (45,7 cm) on center
	6. HDL-06-24-XXX-R; 0.6 GPH (2,1 l/hr) emitters spaced at 24" (61,0 cm) on center
	7. HDL-09-12-XXX-R; 0.9 GPH (3,4 l/hr) emitters spaced at 12" (30,5 cm) on center
	8. HDL-09-18-XXX-R; 0.9 GPH (3,4 l/hr) emitters spaced at 18" (45,7 cm) on center
	9. HDL-09-24-XXX-R; 0.9 GPH (3,4 l/hr) emitters spaced at 24" (61,0 cm) on center
4. Product used is a linear low-density polyethylene and shall have a mixture of approximately 20–25% virgin materials and 75–80% pre-consumer reprocessed resins. Resins used shall not create a weakened and degraded molecular structure such as post-consumer repelletized resins. Outside layers of virgin material provide higher resistance to UV and a better surface for emitters to adhere to the inner circumference of the tube.
	1. All HDL products offer ultraviolet (UV) resistance and meet required standards.
5. HDL shall be color-coded with stripes that reveal the flow. There shall be one middle stripe into which emitter holes are drilled and there is one pinstripe of the same color on each side of the thicker stripe. The exception to color stripes indicating flow are purple stripes, which indicate only that reclaimed water may be in use.
	1. 0.4 GPH shall have three stripes, all in TAN.
	2. 0.6 GPH shall have three stripes, all in GRAY.
	3. 0.9 GPH shall have three stripes, all in BLACK.
	4. Reclaimed indicator shall have three stripes, all in PURPLE.
6. Stripes shall be part of the extrusion process and not painted or printed.
7. The presence of a check valve in HDL shall be identified by the brown color of the tube.
	1. Light brown indicates that the product is pressure compensating, but no check valve is present in the emitters.
		1. HDL-PC
		2. HDL-R
	2. Dark brown indicates that the product is pressure compensating, but also contains check valves in each emitter.
		1. HDL-CV

2.2 Warranty

 A. All HDL product is warranted to be free of defects in materials or workmanship under normal use in landscape irrigation applications for five years. An additional two years is added to the warranty for environmental stress cracking.

**Part 3 – Function and Operation**

1. Consistent flow shall be supplied from each and every emitter based on inlet pressure in the range of 10–60 PSI (0,7–4,1 bar) for PC emitter and 15–60 PSI (1,0–4,1 bar) for CV emitter.
2. Emitters are available in three separate flows: 0.4 GPH (1,5 bar), 0.6 GPH (2,1 bar), and 0.9 GPH (3,4 bar).
3. Required filtration for all HDL models is 120 mesh (125 micron).
4. HDL shall be connected with any standard 17 mm barb fittings or for quicker installation, the PLD-LOC Fittings.