

# Components and Materials

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## Engineered and Manufactured for Years of Reliable Performance

To ensure that HydroKnot provides years of reliable performance across all possible irrigation environments, HydroKnot has specifically chosen high-precision materials for the HydroKnot manufacturing process. The table below summarizes the four components used to assemble the HydroKnot:

Component	Material	Description
Housing	ABS Plastic <sup>1</sup>	Chosen for its exceptional strength, impact resistance, and chemical resistance; it performs consistently across temperature ranges of -40 to 100 °C
Spring	302 Stainless Steel <sup>1</sup>	Chosen for its high corrosion resistance and high strength. It is also the same stainless steel material that is used in RainBird springs and other high-quality pop-up heads, which provides years of rust-free performance.
Rubber Ball	Buna-N Rubber <sup>1</sup> (1" Diameter)	Buna Nitrile rubber was chosen for the HydroKnot rubber ball for its high chemical resistance and consistent performance across temperature ranges of -40 to 108 °C. It is not affected by oil, fuels, fertilizers and chemicals found in septic and non-potable water. It's often used in the automotive industry for its consistent performance across a variety of fuels, chemicals and extreme temperature ranges.
Product Sticker	Weatherproof Nylon <sup>1</sup>	Chosen for its strength and high resistance to a variety of underground conditions (insects, water, fungi, mold, mildew, chemicals)

<sup>1</sup> [http://en.wikipedia.org/wiki/Abs\\_plastic](http://en.wikipedia.org/wiki/Abs_plastic)

<sup>1</sup> [http://en.wikipedia.org/wiki/Stainless\\_steel#Types\\_of\\_stainless\\_steel](http://en.wikipedia.org/wiki/Stainless_steel#Types_of_stainless_steel)

<sup>1</sup> [http://en.wikipedia.org/wiki/Nitrile\\_rubber](http://en.wikipedia.org/wiki/Nitrile_rubber)

<sup>1</sup> <http://en.wikipedia.org/wiki/Nylon#Characteristics>