



Bidding Specifications For Grund Marking Systems SPM 101 & 105 Series Aluminum Fitted Discs

Introduction

The following paragraphs are bidding specifications for Underhill Grund Marking System SPM 101, 105 aluminum fitted discs for golf sprinkler heads.

Separate bidding specifications for engraved caps, snap-in markers, highlighter snap rings or valve box / universal markers can be found on the Underhill's Grund Marking System web pages.

The SPM 101 series fitted caps are made to fit a wide variety of Toro, Rain Bird, & Hunter golf series sprinkler heads noted in the table below. The SPM 105 series is designed as a "universal" marker to be riveted to the top of most any golf head sprinkler series.

SPM Series	Manufacturer	Models
SPM 101	Toro Series	630, 650, 660, 670, 680, 690, 830/850S, 834S, 835S, DT34/35, 835, 855, 854S, 855S, DT54/55, 860S, 880S All FLX and Infinity Series
	Rain Bird Series	47/51DR, 71/91/95, E900, E950, E700, E750, E500, E550, 1100
	Hunter Series	G-70/75, G-90/95, G-990, G-995
	John Deere / Signature	Call
SPM 105	Fits most heads	

The number of yardages, background and engraving color can be recorded in the Underhill Excel template via the following web link:

<http://underhill.us/markets/golf/marketing-systems/207-sprinkler-head#forms>

Materials

The SPM 101, 105 series markers are made from anodized, 6061-T6, alloy aluminum with a nominal thickness of 0.063 inches, (1/16"). This is a high strength, high corrosion resistance material having good acceptance qualities of applied coatings for outdoor environments and varying water quality.

The aluminum discs have counter-sunk thru-holes where the aluminum cap secures to the appropriate sprinkler model using 6061-T6 aluminum rivets. The nominal size of these anodized aluminum rivets is 1/8" x 3/8". The size and placement of the thru-holes varies depending on the manufacturer make and model of sprinkler head. The depth of engraving is 1/32" and should be of a consistent depth within each marker.

Up to three background colors (black, maroon or purple) of the aluminum discs can be specified. The engraved yardage(s) exposes the natural aluminum color (gray). Verify the corresponding color combinations with Underhill's website, <http://underhill.us/markets/golf/marketing-systems/207-sprinkler-head#models>.

Single, double or triple yardage distances can be specified for each SPM 101 or 105 series and can be mixed and matched per the customer's preference.

Installation

Confirm the engraved yardage(s) on the disc matches a corresponding sprinkler plan with locations and yardages. It might be helpful by placing flags adjacent to each head to receive a yardage marker to make installation easier.

Confirm the top of the sprinkler cap is clean to prior to installation. Drill a small pilot hole, then using the supplied aluminum rivets, secure the aluminum disc in the appropriate location. The install location can vary depending manufacture make and model. Avoid covering arc adjustment, fasteners or other openings that might impede other periodic maintenance operations required for each manufacturer and model.

A line drawing maybe included with installation instructions depending on the manufacturer and model.

The Grund Marking System aluminum disc representing the 101 and 105 series are manufactured and distributed by Underhill International Corporation, Mission Viejo, CA.

End of Specification