



Bidding Specifications

Underhill Quick Couplers, Keys & Hose Swivels

Model Specifications

The following bidding specs are for the Underhill Quick Couplers, keys and hose swivels.

Specifically excluded from these bidding specs are swing joints and/or sprinkler boxes which can be found under "Quick-Coupler Kits".

Material Specifications

Quick Coupler-

The quick coupler body, key and hose swivels shall be made from solid, cast "red-brass" for superior long-term durability. Internal spring assemblies shall be made from stainless steel to ensure long-life.

The bottom inlet of the quick couplers shall have female NPT threads of the following sizes: $\frac{3}{4}$ ", 1" or 1-1/2".

Body construction shall be single piece with a single slot. Quick couplers shall have a yellow vinyl, non-locking cover.

Quick Coupler Keys -

Quick coupler keys shall have a single lug with a three-eighths ($\frac{3}{8}$ ") round diameter galvanized steel handle of approximately four inches (4") long. The mating end of the handle shall be machine threaded to mate with the quick coupler key body. The keys shall come in various sizes having a MPT thread to a FPT to be compatible with a hose thread.

Hose Swivels –

Quick coupler hose swivels shall also be constructed of solid, cast "red-brass" with machined inlet threads with FPT or FBSP to mate with a corresponding sized quick coupler key having an outlet thread of MHT or MBHT as specified.

Quick couplers, keys and hose swivels shall provide reliable and consistent performance up to 150 psi.

Installation

Attach the quick coupler to the specified PVC or ductile iron swing joint. A straight and vertical pipe directly attached to the irrigation mainline is not recommended. Center the quick coupler body within the valve box and pull upwards so the yellow cover is within 4" of the top of the valve box lid. Once the height is established, tamp and backfill around the quick coupler body w/ $\frac{3}{4}$ " washed gravel or as noted in the irrigation detail. Allow for approximately 3-4" of clearance between the top of the quick coupler cover and the level of gravel backfill. To operate a quick coupler, use a corresponding size quick coupler key but inserting down into the throat of the quick coupler. Turn clockwise until the "lug" on the key engages and then continue to turn until it locks into place.

A hose swivel can be threaded onto the top of the corresponding sized quick coupler key. The swivel is capable of rotating 360° either during operation or non-operation. The outlet of the hose swivel are male hose threads for $\frac{3}{4}$ " and 1" hose connections.

The Quick Coupler kits shall be sold and distributed by Underhill International Corporation, Lake Forest, CA.