



PVC Swing Joint Bidding Specifications

Application

The following bidding specifications shall be for 1-1/2" series inlet/outlet PVC swing joints typically used for the Underhill International M-115 and M-125 sprinkler head series.

Material Specifications

The factory-assembled, 1½", inlet and outlet styles, 12" in length, swing joints shall be rated at 315 Psi maximum working pressure @ 73° F when tested in accordance with ASTM D3139, including internal hydrostatic pressure @ 787 psi for 60 minutes and short-term pressure of 1008 Psi without leakage or failure.

The swing Joints shall be molded of rigid polyvinyl chloride (PVC). Type 1, Cell classification 12454-B per ASTM specification D 1784, with NPT threads and pipe sockets per ASTM D 2464 and D2466, respectively. Each rotating joint shall be sealed with a "O"-ring, installed pre-compressed in a sealing groove free of parting lines to prevent leakage. Modified stub ACME threads shall have special engineered (S.E.) diameters and clearances to allow full circle (360°) movement and to reduce stress concentrations and joint fracture at thread roots.

(Note: All Swing Joints are pressure rated at 315 psi. Gray color on some swing joints does not necessarily indicate Schedule 80 pressure rating. Be sure the units you specify and use bear a 315 Psi rating)

The type of inlet/outlet fitting will vary depending on model number specified noted as:

- MBSP (male British standard threads)
- NPT (national pipe threads)

Installation

Visually inspect both the threaded ends of the swing joint prior to installation. Confirm the threads are not damaged or filled with dirt or other debris.

Confirm which threaded end represents the BSP threads. This may require carefully threading one end into the sprinkler outlet making sure the threads do not bind. Mark as necessary. Once confirmed, use the appropriate width Teflon tape, wrapping the male-end threads a minimum of 5-6 times. Carefully thread the swing joint into the sprinkler inlet and tightened. Avoid over-tightening with hand-tools where the male end becomes damaged or splits.



Repeat the same visual inspection, application of Teflon tape and tightening procedures on the opposing end into the corresponding tee or elbow.

The swing joints shall be sold and distributed by Underhill International Corporation, Lake Forest, CA.