

Perma-Grip

UMI - Coupling Installation Procedures

Internally Expanded Permanent Hose Couplings Reference Sheet

Coupling Installation Procedures

Ensuring an easy “pull-through” during expansion

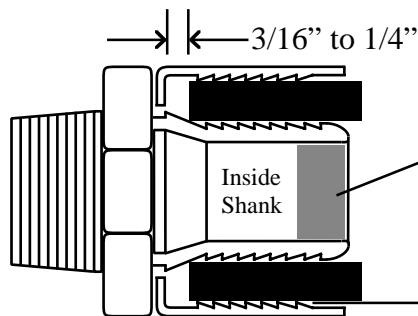
- Following the UMI Ferrule Selection Procedures, select the proper UMI ferrule for your application.
- Push ferrule onto hose using up to approximately 40 lbs. of force. Always allow 3/16” to 1/4” space between hose end and inside front surface of ferrule. Hose should cover all ferrule and body serrations. Do not push the hose to the front surface of the ferrule.
- Check fit of ferrule by inserting coupling body into hose and inspecting the space between hose O.D. and ferrule I.D. The ferrule should remain stationary from the line-to-line fit, or loose to the extent whereby a standard #1 paperclip (1/32”) will fit snugly between the surfaces of the hose and ferrule in one location.
- Lubricate the inside surface of the coupling body. Recommended lubricants include Lithium Grease, Moly Disulfide or any other equivalent E.P. type grease.
- Do not lubricate the punch! Any lubricant placed on the punch will be deposited on the inside wall of the hose, thereby reducing the coupling’s holding power. The remaining lubricant will be shaved off the punch at the entry point of the coupling body, resulting in a dry, difficult “pull-through”.
- Proceed with expansion.
- After expansion, check entire inside surface of coupling shank for smoothness.

Ferrule Placement

Do not push hose end to front surface of ferrule. Allow 3/16” to 1/4” space between front surface of ferrule and hose end. Hose should cover all ferrule and body serrations.

Lubricate the inside shank of coupling

Recommended lubricants include Lithium Grease, Moly Disulfide or any other equivalent E.P. type grease. Do not lubricate the punch!



Ideal Fit

Line to line up to 1/32” loose fit on diameter (one side only) between ferrule serration I.D. and hose O.D. Do not force ferrule onto hose!

These installation procedures apply exclusively to couplings produced by United Metal Industries. If you have any questions regarding these procedures, please consult the factory at 800-359-6801.

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