

25 Ton Ram Operating Instructions

Section 5

Internal Expansion of Steel & Stainless Steel Stems



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Lubricate the O.D. of the small half (tapered end) of the corresponding IX plug with Crisco[®] (recommended) or a high viscosity oil or heavy duty grease.



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Slide the stem over the pull rod and into the recess of the adapter plate with the connection side of the stem facing the ram. Screw on (or slide) the IX plug, small end first, onto the pull rod and into the shank of the stem. For 2" and above screw the retaining nut on until it contacts the plug. Note: **25RODLARGE** is shown. Move the stem slightly to allow for slack and hand tighten the plug or nut until it is snug. Lubricate the rest of the O.D. of the plug.

Hint: When doing more than 1 hose assembly of the same I.D. size take the time to screw the pull rod further into the face plate of the **25IXATTACH**. This will allow for a shorter cycle time.



Accurately measure the hose O.D. with a diameter tape. Select the correct IX ferrule from the DPL based upon the hose O.D. just measured. Note: Always measure both hose ends for accurate ferrule selection.





Make sure the hose end is cut square. Slide the ferrule over the hose until the turned over end of the ferrule contacts the end of the hose. Place a mark on the hose at the junction of the ferrule and hose. Move the ferrule away from the hose end 1/4" and place another mark at the junction of the hose and ferrule. This will ensure that the proper rubber displacement or pocket is maintained during the expansion process.





Assembly procedure for 2¹/₂" threaded male stems:

In order to prevent possible thread collapse on $2\frac{1}{2}$ " Male NPT Stems during installation, it is recommended that a female threaded adapter be installed prior to installation. The adapter part # is **M011-384** for the $2\frac{1}{2}$ " male stem. Following is the procedure for installation:

- 1. Lubricate stem I.D. and small end of expansion plug.
- 2. Thread M011-384 onto threads of the male stem hand tight ONLY!
- 3. Slide stem over pull rod thread adapter end first.
- 4. Seat M011-384 onto OUTER recess of the adapter.
- 5. Follow normal IX procedure.
- 6. When the assembly is removed from the pull rod, remove **M011-384** and clean the stem I.D. of excess lubricant.

If you have any questions, please contact our Engineering Department.

Dixon[®] sells steel and stainless steel and internal expansion fittings. Verify that the correct plug and adapter plates are being used when installing fittings. Also note that with food grade fittings a different lubricant may be needed. If you need assistance please contact your Dixon[®] representative or call any Dixon[®] branch.

Dixon[®] recommends that all hose assemblies be tested as recommended by the Association for Rubber Products Manufacturer's (ARPM) ARPMINC.com.

