CHARLOTTE PIPE AND FOUNDRY COMPANY

Technical Bulletin #180112

Gasketed Pipe Assembly*

Bar and block is the recommended method of assembly. Small diameter pipes can be assembled by one worker, while larger diameters may require two people working together.

Besides quicker installation of a pipe line, the major advantage of barring pipe (see Bar & Block illustration below) is that the worker has a feel for the process. This assures proper alignment and assembly.

NOTE: Assembly with power equipment is not recommended.

Standard good mechanical assembly practice takes alignment into consideration and produces reliable leak-free pipe lines.

Straight alignment assembly will not dislodge gaskets. Forced, improper alignment insertion produces an insertion curve characterized by the tremendous force necessary to dislodge the gasket from the race, trap it between the bell and spigot surfaces, and stretch it backwards. The insertion force necessary to assemble a joint with dislodged gaskets is so extreme, it can only be accomplished using mechanical equipment without the operator's knowledge of the dislocation.

Joint Insertion Instructions

1. Clean the gasket area. Remove sand, dirt, grease, and debris. **Do not** remove gaskets from bells.

2. Check the gasket. Make sure it is seated uniformly in the groove by running your finger around the inner edge of the gasket.

If the gasket has a plastic retainer ring, make sure it its properly seated into the rubber portion of the gasket.

3. Clean the spigot. Use a rag to wipe the spigot clean.

4. Lower the pipe into the trench carefully to avoid getting dirt onto the bell or spigot.

5. Lubricate. Apply approved pipe lubricant to the bevel of the spigot end and approximately mid-way back to the reference line.

A thin layer of lubricant may be applied to the face of the gasket, but be careful not to get lubricant behind or under the gasket. 6. Keep lubricated areas clean. If dirt or sand adhere to lubricated areas, clean and re-lubricate.

7. Assemble pipe. Insert the spigot end into the pipe until it contacts the gasket uniformly or is a short distance from the gasket. **Straight alignment is** essential.

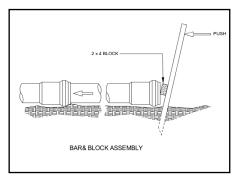
Apply steady pressure by hand or by mechanical means (bar and block, come-along, hydraulic jack) until the spigot slips through the gasket. Insert pipe until the assembly stop line is flush with the bell end.

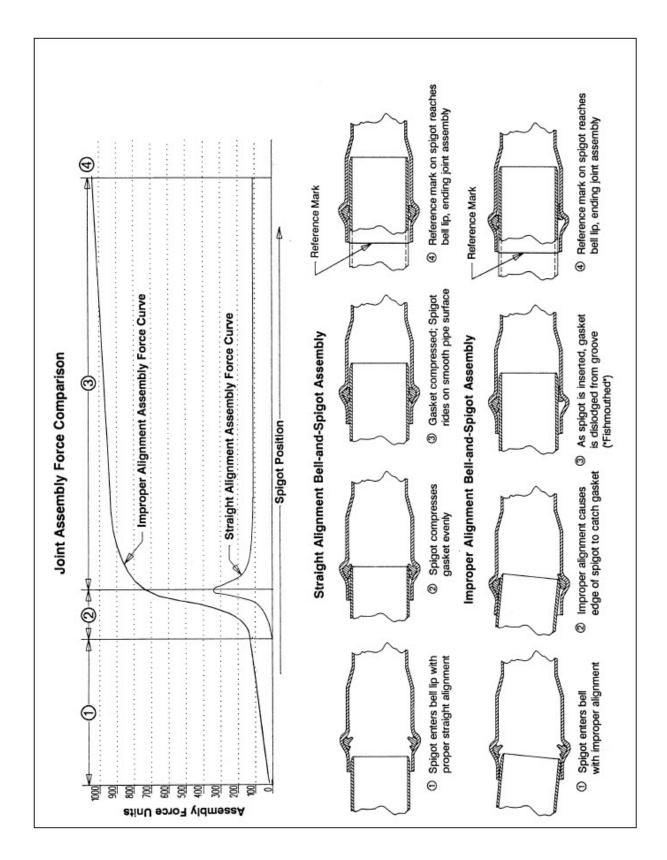
8. If undue resistance to pipe insertion is encountered or if the pipe cannot be inserted to the reference mark, disassemble the joint and check the position of the gasket.

If the gasket is still properly positioned, verify proper positioning of the reference mark. Relocate the mark if it is not correctly positioned. In general, fittings allow less insertion than do pipe bells. 9. If the pipe must be field-cut, mark the entire circumference to ensure a square cut. Bevel the field cut the same as a factory bevel.

If being installed into fittings, follow the manufacturer's recommendations. Round off any sharp edges on the leading edge of the bevel with a pocket knife or a file. Mark cut end with an insertion line similar to uncut pipe.

*Data and language courtesy of Hultec





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