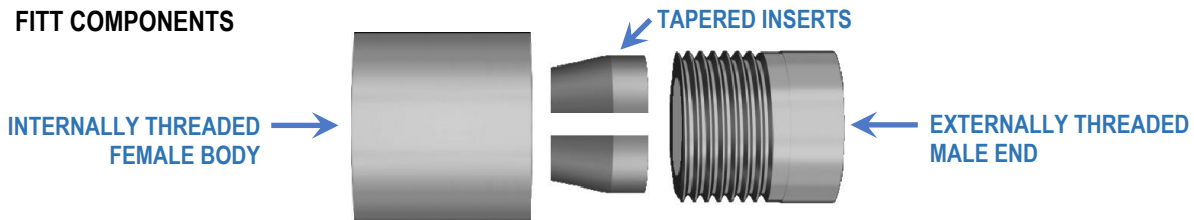


INSTALLATION INSTRUCTIONS FOR BPI® FITT® HEADED DEVICE (FIELD INSTALLED THREADED TERMINATION) ON GRADE 60 [METRIC GRADE 420], GRADE 75 [METRIC 520] AND GRADE 80 [METRIC 550] REINFORCEMENT BAR

The BPI® FITT® is a field installed headed device that comes preassembled and ready to install on reinforcement bar ends. The FITT should not be disassembled prior to installation. If it is necessary to reassemble the FITT, due to having to remove it from a bar or because it came apart during shipping and/or handling, special care should be taken to place the two inserts correctly in the tapered area inside the female body prior to threading in the male end. **DO NOT USE ON REINFORCEMENT BAR THAT IS LARGER OR SMALLER THAN THE INTENDED BAR SIZE. STORE FITT DEVICES IN A CLEAN, DRY PLACE UNTIL READY TO INSTALL.**

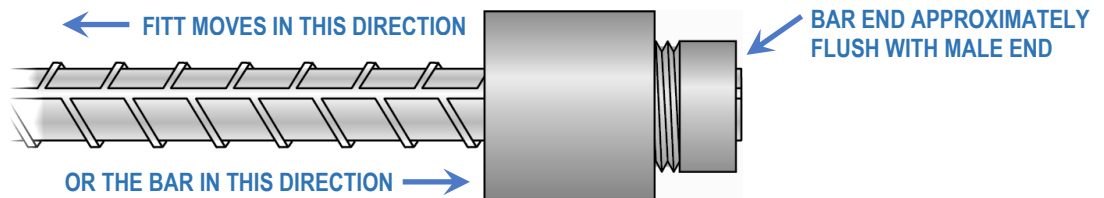
- 1) The FITT Headed Device consists of several preassembled components – the internally threaded female body, two tapered inserts and the externally threaded male end – all of which should be present and in place prior to installing on the reinforcing bar end. **DO NOT PLACE ON REBAR ENDS THAT ARE CONTAMINATED WITH DIRT, OIL, CONCRETE, ETC.**

FIGURE 1: FITT COMPONENTS



- 2) To install on reinforcement bar, push the bar end into the female body, past the internal tapered inserts, and through the male end. The end of the rebar should be approximately flush with the end of the male component as shown below. In all cases, consider your own **personal safety** during installation. Make sure you are securely positioned and that you will not slip or fall. Use only good quality wrenches that will not round-out. It is recommended to wear gloves while handling the FITT.

FIGURE 2: INITIAL INSERTION



Due to the nature of the internal tapered inserts, the FITT can only be installed in this direction. If the FITT is installed on the bar end backwards, it may be necessary to disassemble the FITT before it can be removed from the bar. If this happens, it will need to be reassembled before reinstallation. **IF THIS BECOMES NECESSARY, ENSURE THE TAPERED INSERTS ARE NOT LOST AND THAT THEY ARE CORRECTLY PLACED INSIDE THE FEMALE DURING REASSEMBLY AS SHOWN IN FIGURE 1.**

- 3) After the initial insertion and alignment of the FITT on the bar end, hold the female in place while tightening the male down by hand. The initial hand tightening should push the tapered insert teeth into the rebar enough for the FITT to hold in place prior to final assembly. When the FITT is installed at the top of a vertical bar, the weight of the assembly may be too much for a hand tightened male to hold it in place before the final tightening. This is especially true for larger size FITT devices. To prevent the FITT from falling down the bar, hold it in place, or use a clamp or wire tie below the assembly, while performing the final tightening.
- 4) To complete the installation, tighten the male end as shown below using a standard pipe wrench, while holding the female body in place with a second wrench, until no additional tightening is possible.

FIGURE 3: FINAL TIGHTENING OF ASSEMBLED CONNECTION



- 5) Fully assembled and installed FITT devices can be checked using the same pipe wrenches as described above. No additional tightening should be required. **IT IS NOT NECESSARY TO USE A TORQUE WRENCH OR APPLY A HIGH TORQUE VALUE.**