



## Flange Weld Tester

**Purpose-** The Flange Weld tester is designed to test the welds between pipe and the flange and test the axial force. This is beneficial as with this tool the entire line does **NOT** need to be pressurized or filled with a medium to test one weld. This greatly reduces costly down time, hi volume, high pressure tests.

**Application-** The Flange Weld tester is designed so that the test tool assembly can be used for both 150# and 300# flanges with custom options available for other sizes. The body of the tool is like our current patented line of single bolt SCIT tools and are capable of multi schedules each. The tool is configured in such a way that the inner seal to Blind flange can be as close as 2" but up to 7" from inner seal to blind flange.

**Installation** – The inner seal is installed onto the mandrel followed by the seal collar and required spacers. The tool is then installed onto the blind flange. The seal is placed on mandrel followed by the sealing spacer. The washer and nut are then installed hand tight to hold the assembly together. The tool is then inserted into the Pipe and Flange bolted up to the flange to be tested (the fill/ gauge port needs to be at the 6 o'clock and 12 o'clock position). Tightening and torque the flange bolts are required. Tighten the FT nut to the recommended torque not exceeding the maximum.

**Operation/ Disassembly** - The test area is then pressurized through the port in the custom flange to the desired pressure. this is held for as long as needed to fully test the Flange weld/ area. When The test is complete, the tool is depressurized and drained prior to unbolting. Loosen the mandrel nut then remove the Flange nuts/ studs. Remove tool from pipe.