



**READ COMPLETELY BEFORE ATTEMPTING INSTALLATION\***

**THESE INSTRUCTIONS ARE APPLICABLE WHEN 7300 SERIES ZINC OR BRASS HEAD FLOAT GAUGES ARE INSTALLED IN FORGED STEEL, THREADED WELD ADAPTERS. THESE FLOAT GAUGES ARE INTENDED FOR USE WITH 3/4"-14 NPTF ADAPTERS OR 3/4"-14 NPT ADAPTERS.**

**BOTH ZINC AND BRASS HEADS FOR 7300 SERIES FLOAT GAUGE ARE SUPPLIED WITH 3/4"-14 NPTF (PTF-SAE SHORT THREADS). THE THREADS ARE MADE WITH SPECIAL PITCH DIAMETER TOLERANCE OF "FLUSH TO 3/4 TURN LARGE".**

**IF NOT COATED WITH THREAD COMPOUND, THE THREAD PITCH DIAMETER ON FLOAT GAUGE HEAD MAY BE GAGED WITH EITHER 3/4"-14 NPTF L1 RING GAGE, 3/4"-14 PTF-SAE SHORT L1 RING GAGE OR 3/4"-14 NPT L1 RING GAGE.**

**1. INSPECT ADAPTER THREAD PITCH DIAMETER WITH 3/4"-14 NPTF L1 BASIC NOTCH PLUG GAGE OR 3/4"-14 NPT BASIC NOTCH PLUG GAGE. TYPICAL COMMERCIAL TOLERANCE IS "FLUSH WITH NOTCH TO ONE TURN LARGE OR ONE TURN SMALL".**

**2. IF ADAPTER THREADS ARE CORRECT, THEY MAY BE WELDED INTO THE TANK. HOWEVER, STEPS SHOULD BE TAKEN TO MINIMIZE THREAD DISTORTION DUE TO HEAT AND TO SHIELD THREADS FROM WELD SPATTER.**

**3. AFTER WELDING, REINSPECT ADAPTERS AS DESCRIBED IN STEP ONE. IF THREADS ARE CORRECT AFTER WELDING, PROCEED TO STEP SIX. IF THREADS ARE NO LONGER CORRECT, GO TO STEP FOUR.**

**4. UNDERSIZE, DISTORTED OR WELD SPATTERED ADAPTER THREADS MUST BE RE-TAPPED WITH 3/4"-14 NPTF OR 3/4"-14 NPT TAP USING THREAD CUTTING OIL. BE CAREFUL NOT TO TAP THREADS TOO DEEP. AFTER TAPPING, CLEAN ADAPTER THREADS OF METAL CHIPS AND EXCESS OIL.**

**5. REINSPECT ADAPTER THREADS AS DESCRIBED IN STEP ONE. IF THREADS ARE CORRECT, GO TO STEP SIX. IF THREADS ARE STILL UNDERSIZE, GO BACK TO STEP FOUR.**

**6. IF NOT ALREADY COATED WITH EVERSEAL, APPLY THREAD COMPOUND TO THREADS OF FLOAT GAUGE HEAD. IT IS PERMISSIBLE TO APPLY VEGETABLE OIL OVER EVERSEAL IF DESIRED.**

**7. INSTALL FLOAT GAUGE THROUGH ADAPTER AND SCREW IN AT LOW ROTATIONAL SPEED TO PREVENT FLOAT ARM DAMAGE. TORQUE FLOAT GAUGE HEAD TO 50-100 FOOT-POUNDS. IF SPECIAL DIAL ORIENTATION IS NECESSARY, TORQUE HEAD TO 50 TO 75 FOOT-POUNDS AND THEN CONTINUE TO ROTATE HEAD UNTIL THE DESIRED DIAL ORIENTATION IS OBTAINED.**

**THREAD ENGAGEMENT ON FLOAT GAUGE HEAD SHOULD BE BETWEEN FIVE AND SEVEN TURNS WITH ONE TO THREE THREADS VISIBLE AFTER INSTALLATION.**

**SEE MS-516 FOR ADDITIONAL INFORMATION**

\* Materials and specifications are subject to change without notice.  
Pressure ratings subject to change due to temperature and other environmental considerations.

