

# INSTRUCTIONS

## QPG-820

### Quartz Crystal Wireline Gauge

#### Procedure to operate:

1. Install two No. 018 Viton 90 o-rings (P/N 079-0018-00) into the grooves on the transducer assembly.
2. Screw the transducer assembly into the QPG-820 housing and tighten with the torque clamp to 40 ft-lb.

USE STEPS 3-6 ONLY IF OPERATING WITH UNBELLOWS. SKIP TO STEP 7 IF USING BELLOWS ASSEMBLY.

3. With the syringe, fill the crystal cavity with silicone oil as shown in Figure X. The point of the syringe must connect tightly into the crystal cavity in order to properly fill.
4. Remove knurled plug from Unbellows and fill Unbellows from transducer end using the oil can. Reinstall knurled plug. Carefully install Unbellows adapter to Unbellows. Fill the Unbellows adapter with silicon oil with syringe. Note: do not allow air to enter Unbellows assembly when connecting to the transducer.
5. Install the autoclave port seal to the Unbellows assembly and screw the Unbellows assembly onto the transducer and torque to 22 ft-lb.
6. With bullet nose end down, fill the oil trap with silicone oil. Remove knurled plug from Unbellows and screw oil trap on the memory interface housing.
7. Program the SEMR-2000 for the desired test using Memory Tools Software.
8. Install fresh o-rings (P/N 079-0211-00) on the cablehead and screw the cablehead into the top of the QPG-820 housing.
9. Connect wireline cable to SEMR-2000 gauge input.

#### Procedure to clean the Quartz Crystal Gauge:

*It is of **critical** importance that any quartz crystal gauge be cleaned after **each use!** This is because minute quantities of contaminate can and will damage the crystal if not cleaned **promptly** after each use. Failure to do so will result in a very expensive crystal replacement.*

**CAUTION:** All o-rings must be replaced after each run.

**CAUTION:** When disassembling the tool, make sure to disconnect the electrical connectors before removing the transducer assembly from the PCB housing!

1. Reverse the 'Procedure to operate' (above) to disassemble the tool.
2. After removing the plug from the Unbellows, flush the Unbellows with silicone oil using the oil can to force the fluid through, see Detail A. Replace knurled plug.

(continued)



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