



INSTRUMENTS

Installation & Operating Instructions For

MS8



MS8PT, MS8PR, MS8Q All Welded Seal Gauge

1. INSTRUCTIONS CONTENT

This instructions manual contains installation, operation, and maintenance instructions for the MS8 Series of All-Welded Diaphragm Seals assembled to pressure measurement instruments. American National Standard ANSI B40.100 contains valuable information including installation, operation, calibration, and safe operating usage. It is highly recommended that anyone using, installing or calibrating pressure gauges and other instrumentation with diaphragm seals be familiar with these industry standards.

1. INSTALLATION

MS8 assemblies mounted directly on piping should be assembled with reasonable care. Always use the wrench grip provided above the diaphragm seal to secure it to the thread fitting. Do not use the pressure gauge case as a means of tightening the connection. Consistent with industry standards, the use of pipe thread sealant is highly recommended when installing the gauge into the threaded connection.

MS8 assemblies should be located where they will not be subjected to abnormally high or low temperatures. The following table outlines the temperature limits of the MS8 Series dependent on the seal fill fluid

Seal Fill	Operating		Not to Exceed
	Min	Max	
Sil. DC200	-50F	450F	550F
Glycerine	30F	300F	350F
Hi-Temp	30F	600F	700F
Inert	-40F	400F	400F

If the normal operating temperature of the process is over the stated limit, cooling elements may be applicable. Please consult the factory.

2. OPERATION

Slowly admit pressure into the assembly to avoid a pulsation shock. If the MS8 assembly includes a pressure gauge the maximum pressure at which the assembly should continuously operate should not exceed 75% of the full scale. The pressure gauge selected with the assembly should be twice the intended operating pressure.

The maximum pressure for the MS8 Diaphragm Seal is 5000psi at 100F. Do not exceed this pressure.

Please consult the factory for instruments that can handle process pressure exceeding 5,000psi.

3. MAINTENANCE

Dependent upon the severity of the service, MS8 assemblies should be removed from service at intervals and compared with a master test gauge for calibration. If the assembly includes a repairable pressure gauge, minor corrections can be made by resetting the pointer.

If the chamber between the connection and the diaphragm becomes dirty or clogged, take care when washing out the debris. Be careful not to poke the sensitive diaphragm which can result in a tear or wrinkle in the thin metal. If a damage occurs to the diaphragm the assembly will not operate properly and cannot be repaired.