

# All-Welded Process Seal Gauge™

REOTEMP's All-Welded Pressure Seal Gauge™ offers superior diaphragm seal safety and performance at an economical price. Combined with a gauge or transmitter, the tamper-resistant all-welded diaphragm seal reduces potential leak points, making it ideal for installations where process integrity and worker safety are paramount. Combined with PulsePlus™ protection, the Series MS8 can increase the life of your gauge or transmitter by up to 3 times.



## Features/Benefits:

- Increases the Life of the Gauge by up to 3x
- Reduce/Eliminate Fugitive Emissions
- Available up to 5,000psi
- Eliminate Potential Leak Points
- Tamper Resistant
- Compliant to NACE MR0175



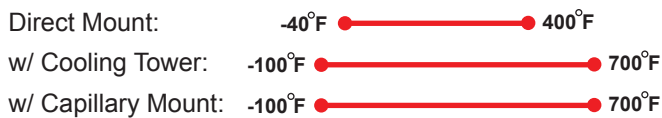
Add Pulse Plus™ protection whenever pulsation is a concern.  
(see demo video at reotemp.com)

## Specifications:

### Construction Materials:

*Non-Wetted (upper housing):* 316 Stainless Steel  
*Wetted (diaphr., lower, & proc. conn.):* 316LSS or Hast. C-276  
*Gasket:* None

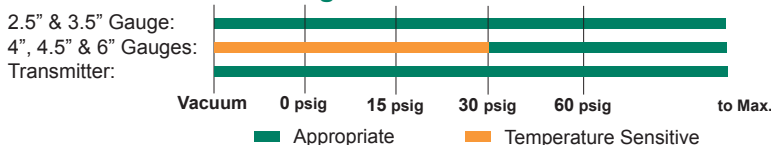
### Process Temperature Limits :



Note: seal fill selection may further restrict temperature limits.

**Ambient Temperature Limits:** See Pressure Gauge Data Sheet

### Minimum Pressure Ranges:



**Accuracy:** With appropriate pressure range, seal gauge accuracy is gauge accuracy plus 0.5%.\*

\*subject to thermal error. Consult factory with questions.

**Weight:** 0.6 lbs (seal only)

**Displacement:** 0.055 in<sup>3</sup>

Create complete assembly drawings @ [www.reotemp.com](http://www.reotemp.com)

### Process Connections:



Note: Other connections available see "How to Order"

## Diaphragm Seal Proof Pressure (at 100°F):

	316SS	Hastelloy C-276
<b>Male</b>		
1/4" NPT	5,000 psi	1,500 psi
1/2" NPT	5,000 psi	1,500 psi
3/4" NPT	2,000 psi	n/a
1" NPT	1,000 psi	n/a
<b>Female</b>		
1/4" NPT	5,000 psi	n/a
1/2" NPT	5,000 psi	n/a

Note: Max. working pressure is lesser of proof pressure and 130% of gauge range.

Distributed by:

# HOW TO ORDER

**MS8PT**

**A**

**M2**

**F**

**P20**

**S**

**DDD**
















**XX**

**P**

**D**

**T**

Accessories:  
**HV**

Pressure Instrument:	Gauge Mount:	Process Connection:	Flush Connection:	Pressure Range:	Wetted Material:	Seal Mounting:	Seal Fill:	Pulsation Protection:	Case Fill:	Lens:
<b>Solid Front/ Blowout Back Process Gauges:</b> <b>MS8PT</b> = 4.5" Phenolic Process Gauge  <b>MS8PS</b> = 4.5" Stainless Steel Safety Gauge   <b>Industrial All Stainless Steel Gauges:</b> <b>MS8P6</b> = 6" S.S.  <b>MS8P4</b> = 4" S.S.  <b>MS8P3</b> = 3.5" S.S.  <b>MS8P2</b> = 2.5" S.S.  <b>Hinged-Ring Process Gauge</b> <b>MS8PI</b> = 4.5" Aluminum Case, SS internals 	<b>A</b> = Bottom   <b>C</b> = Back  (4", 4.5", 6") lower back  (2.5", 3.5") center back  <b>E</b> = Back / Front Flange (panel mount)  (4", 4.5", 6") lower back  (2.5", 3.5") center back	<b>M2</b> = 1/2" male NPT <b>M4</b> = 1/4" male NPT <b>M3</b> = 3/4" male NPT <b>M1</b> = 1" male NPT <b>F2</b> = 1/2" female NPT <b>F4</b> = 1/4" female NPT	<b>X</b> = No Flush <b>F</b> = Single 1/4" Flush (includes plug)	<b>Common psi Ranges:</b> <b>P01</b> = Vac. <b>P15</b> = 15psi <b>P16</b> = 30psi <b>P17</b> = 60psi <b>P18</b> = 100psi <b>P20</b> = 200psi <b>P21</b> = 300psi <b>P22</b> = 400psi <b>P23</b> = 600psi <b>P25</b> = 1,000psi <b>P31</b> = 2,000psi <b>P32</b> = 3,000psi <b>P34</b> = 5,000psi  See Pressure Catalog for ranges Vac., Compound, thru 5,000 psi  Bar, kPa, Kg/cm <sup>2</sup> , dual ranges, and custom scales available.  See Proof Press. Matrix for Max working press. of various configurations.	<b>S</b> = 316L SS <b>H</b> = Hast. C-276 (not avail. with flush connection)	<b>DDD</b> = Direct   <b>RTR</b> = Cooling Tower    <b>AXX</b> = Armored 316 SS Capillary (5-40ft) e.g. A10 = 10ft   <b>PXX</b> = PVC Coated Armored 316SS Capillary e.g. P15 = 15ft   Note: Capillary connection is welded unless otherwise specified.	<b>AS</b> = Silicone DC200 <b>AG</b> = Glycerine <b>CI</b> = Fomblin <b>BH</b> = Silicone DC704  *See Seal Fill Fluid Guide for More Options	<b>X</b> = None <b>P</b> = Pulse Plus	<b>D</b> = Dry <b>G</b> = Glycerine <b>W</b> = Glycerine Water (65/35) <b>S</b> = Silicone  (MS8PI is not fillable)	<b>T</b> = Tempered Safety Glass (std.) <b>S</b> = Laminated Safety Glass <b>P</b> = Plastic

**Accessories:**  
**HV** = Hi-Vis dial (yellow dial, red pointer)  
**C3** = 3 Point Calibration Certificate  
**TS** = Stainless Steel Tag  
**OX** = Cleaned for O2 Service  
**CN** = NACE Certificate

REOTEMP will mount a MS8 seal to a qualified pressure instrument.

**MS8Q**

**W**

**M2**




**F**

**S**

**DDD**

**XX**

Examples of Compatible Pressure Instruments:

REOTEMP Pressure Transmitter: (Models TG, TH, TE, TX) 
REOTEMP Pressure Switches: (Various models) 
Customer Supplied Pressure Instr.: (Consult Factory) 

Order example: TG1P18-1a4B // MS8QWM2XS-D-S1

Pressure Instrument:	Instrument Connection:	Process Connection:	Flush Connection:	Wetted Material:	Seal Mounting:	Seal Fill:
<b>MS8Q</b> = All-Welded Process Seal Mounted to qualified pressure instrument.	<b>W</b> = Welded <b>4</b> = 1/4" Female NPT Threaded	<b>M2</b> = 1/2" male NPT <b>M4</b> = 1/4" male NPT <b>M3</b> = 3/4" male NPT <b>M1</b> = 1" male NPT <b>F2</b> = 1/2" female NPT <b>F4</b> = 1/4" female NPT	<b>X</b> = No Flush <b>F</b> = Single 1/4" Flush (includes plug)	<b>S</b> = 316L SS <b>H</b> = Hast. C-276	<b>DDD</b> = Direct <b>RTR</b> = Cooling Tower <b>AXX</b> = Armored 316 SS Capillary (5-40ft) e.g. A10 = 10ft <b>PXX</b> = PVC Coated 316SS Capillary e.g. P15 = 15ft	See Fill Guide