

ALL-WELDED PROCESS SEAL GAUGE

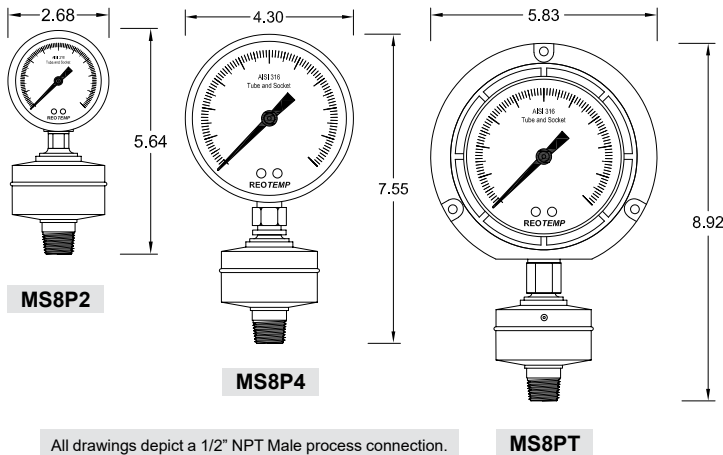
PRESSURE GAUGES

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 potentially triple the life of your gauge or transmitter.



FEATURES / BENEFITS

- Increases the Life of the Gauge by Up to 3x
- Reduce/Eliminate Fugitive Emissions
- Available Up to 5,000 psi
- Eliminate Potential Leak Points
- Tamper Resistant
- Compliant to NACE MR0175, MR0103



All drawings depict a 1/2" NPT Male process connection. See online configurator for specific assembly drawings.

SPECIFICATIONS

Accuracy	With appropriate pressure range, seal gauge accuracy is gauge accuracy plus 0.5%. (May be subject to thermal error. Consult factory with questions.)
Ambient Limits	-40°F/150°F
Process Limits with Diaphragm Seal	-40°F/400°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Diaphragm, Lower and Process Connection: 316LSS or Hast. C-276 Gasket: None
Lens	Tempered Safety Glass , Plastic or Laminated Safety Glass
Other Materials	Upper Housing: 316SS
Fillable	Yes
Maximum Working Pressure	See table left.
Environmental Protection	NEMA 4X/IP65
Weight	0.6 lbs (Seal Only)

DIAPHRAGM SEAL MAX WORKING PRESSURE (AT 100°F)

		316SS	Hast. C-276	Monel
Male	1/4" NPT	5,000 psi	2,000 psi	2,000 psi
	1/2" NPT	5,000 psi	2,000 psi	2,000 psi
	3/4" NPT	2,000 psi	n/a	n/a
	1" NPT	1,000 psi	n/a	n/a
Female	1/4" NPT	2,500 psi	n/a	n/a
	1/2" NPT	2,500 psi	n/a	n/a
Flanged	Based on ANSI flange rating.			

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

ALL-WELDED PROCESS SEAL GAUGE

PRESSURE GAUGES



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HOW TO ORDER: Choose options to build a part number. For example: **MS8PTAM3XP23-SDDDASPGT-HV**

MS8PT	A	M3	X	P23	-S
PRESSURE INSTRUMENT	GAUGE MOUNT	PROCESS CONNECTION	FLUSH CONNECTION	PRESSURE RANGE	WETTED MATERIAL
<p><i>Solid Front/ Blowout Back Process Gauges</i></p> <p>MS8PT = 4.5" Phenolic Process</p> <p>MS8PS = 4.5" Stainless Safety Gauge</p> <p><i>Industrial All Stainless Steel Gauges</i></p> <p>MS8P6 = 6" SS</p> <p>MS8P4 = 4" SS</p> <p>MS8P3 = 3.5" SS</p> <p>MS8P2 = 2.5" SS</p> <p><i>Hinged-Ring Process Gauge</i></p> <p>MS8PI = 4.5" Aluminum Case, SS internals</p>	<p>A = Bottom </p> <p>C = Back (4", 4.5", 6")</p> <p>Lower Back </p> <p>Center Back </p> <p>E = Back/ Front Flange (Panel Mount) (4", 4.5", 6")</p> <p>Lower Back (2.5", 3.5") </p> <p>Center Back </p>	<p><i>Threaded</i></p> <p>M2 = 1/2" male NPT</p> <p>M4 = 1/4" male NPT</p> <p>M3 = 3/4" male NPT</p> <p>M1 = 1" male NPT</p> <p>F2 = 1/2" female NPT</p> <p>F4 = 1/4" female NPT</p> <p>F3 = 3/4" female NPT</p> <p><i>Flanged</i></p> <p>R01 = 1/2"x150# ANSI RF</p> <p>R03 = 1/2"x300/600# ANSI RF</p> <p>RT1 = 3/4"x150# ANSI RF</p> <p>RT3 = 3/4"x300/600# ANSI RF</p> <p>R11 = 1"x150# ANSI RF</p> <p>R13 = 1"x300# ANSI RF</p> <p>RH1 = 1.5"x150# ANSI RF</p> <p>RH3 = 1.5"x300# ANSI RF</p>	<p>X = No Flush</p> <p>F = Single 1/4" Flush (Ships with Plug Installed)</p>	<p><i>Common Ranges</i></p> <p>P03 = -30" inHg/0/30 psi</p> <p>P15 = 15 psi</p> <p>P16 = 30 psi</p> <p>P17 = 60 psi</p> <p>P18 = 100 psi</p> <p>P20 = 200 psi</p> <p>P21 = 300 psi</p> <p>P22 = 400 psi</p> <p>P23 = 600 psi</p> <p>P25 = 1,000 psi</p> <p>P31 = 2,000 psi</p> <p>P32 = 3,000 psi</p> <p>P34 = 5,000 psi</p> <p><i>Available Ranges</i></p> <ul style="list-style-type: none"> ■ 15 psi to 6,000 psi ■ Gauge Pressure, Vacuum, or Compound <p><i>Standard Units</i></p> <ul style="list-style-type: none"> ■ psi ■ psi/bar <p>Note: Minimum Span for 4" Gauges and Greater is 30 psi</p> <p><i>For Additional Range Codes See Page 45</i></p>	<p>-S = 316L SS</p> <p>-H = Hast. C-276</p> <p>-M = Monel 400[†]</p> <p>-Z = Hastelloy C-276 Diaphragm, 316SS Lower Body**</p> <p>Note: see maximum working pressure table on previous page for available process connections.</p> <p>[†]Furnished with Monel upper housing.</p> <p>**Max working pressure is the same as all 316SS.</p>

DDD	AS	P	G	T	-HV
SEAL MOUNTING	SEAL FILL	PULSATION PROTECTION	CASE FILL	LENS	OPTIONS
<p>DDD = Direct</p> <p>RTR = Cooling Tower</p> <p>B?? = Armored 316 SS Capillary (5-40 ft.)</p> <p>W?? = PVC Coated Armored 316 SS Capillary</p> <p>Note: ?? = Length in feet (e.g. 05 = 5 feet)</p> <p>Note: Capillary connection is welded unless otherwise specified.</p>	<p>AS = Silicone DC200</p> <p>AG = Glycerin</p> <p>C1 = Fomblin Y06</p> <p>BH = Silicone DC704</p> <p>C2 = Halocarbon 6.3</p> <p>See 58 for Complete Fill Guide</p>	<p>X = None</p> <p>P = Pulse Plus™ (Pulsation Protection)</p>	<p>D = Dry</p> <p>G = Glycerin</p> <p>W = Glycerin Water (65/35)</p> <p>S = Silicone</p> <p>I = Inert</p> <p>Note: MS8PI is not fillable.</p>	<p>T = Tempered Safety Glass</p> <p>S = Laminated Safety Glass</p> <p>P = Plastic</p>	<p>-HV = Hi-Vis™ Dial</p> <p>-C3 = 3 Point Calibration Certificate</p> <p>-TS = Stainless Steel Tag</p> <p>-OX = Cleaned for O₂ Service</p> <p>-CN = NACE Certificate</p> <p>-PM = Positive Material Identification Certification</p> <p>-MM = Monel Wetted Gauge</p> <p>See Pages 50 & 83 for Additional Options</p>