

HF SAFETY GAUGE

REOTEMP Model MSX is a specially designed Mechanical Pressure Gauge for use in Hydrofluoric Acid service. Both the diaphragm seal components and pressure gauge internals are made with Monel A400 material, complying with EPA rules on dual containment. The entire diaphragm seal system is completely welded and coated with acid-detecting paint providing a visual alert in the event of a process leak around the diaphragm seal.



Fillable



Dials



Custom Logo

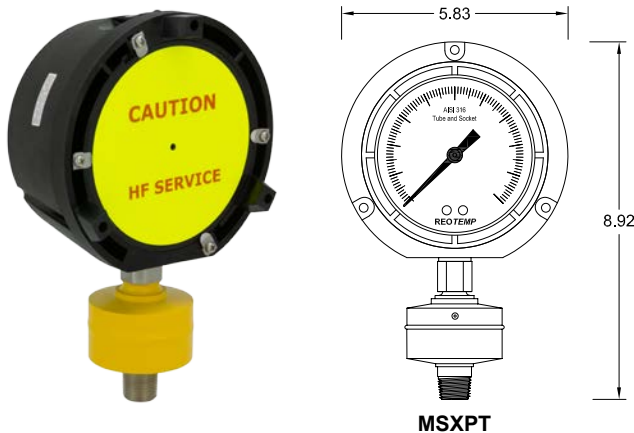
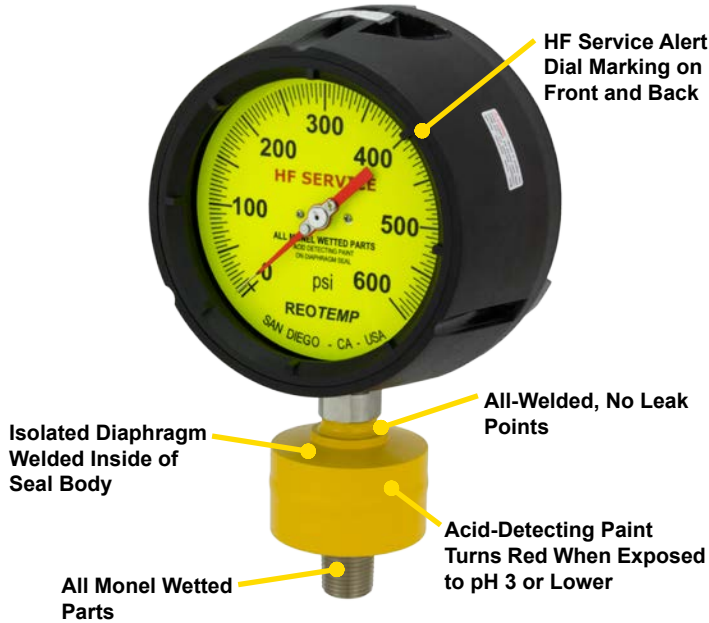


FEATURES / BENEFITS

- All Welded System Eliminating Potential Leak Points and Assuring Tamper-Proof Installation
- Gold Plated Monel Diaphragm Available for Aerated HF Service
- Acid Detecting Paint on Seal Body
- Assembly Cleaned per ASME B40.1 Level IV and Shipped in Sealed Bag

SPECIFICATIONS



| | |
|---|---|
| Accuracy | ± 1% ASME Grade 1A |
| Ambient Limits | -40°F/150°F |
| Process Limits with Diaphragm Seal | -40°F/400°F (Direct Mount)* -100°F/700°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids. |
| Wetted Materials | Diaphragm, Lower and Process Connection: 316LSS or Monel Gasket: None |
| Lens | Tempered Safety Glass , Plastic or Laminated Safety Glass |
| Other Materials | Upper Housing: 316L or Monel |
| Fillable | Yes |
| Maximum Working Pressure | 2,000 psi |
| Environmental Protection | NEMA 4X/IP65 |



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

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HOW TO ORDER: Choose options to build a part number. For example: **MSXPTAM3XP21-MMMDDDC1XITHVF-CN**

| MSXPT | A | M3 | X | P01 | -MMM |
|--|--|--|--|---|---|
| PRESSURE INSTRUMENT | GAUGE MOUNT | PROCESS CONNECTION | FLUSH CONNECTION | PRESSURE RANGE | WETTED MATERIAL |
| MSXPT = 4.5" Phenolic Solid Front/ Blowout Back Process Gauge | A = Bottom  C = Lower Back  | <i>Threaded</i> M2 = 1/2" Male NPT M4 = 1/4" Male NPT M3 = 3/4" Male NPT <i>Flanged</i> R11 = 1"x150#RF R13 = 1"x300#RF R16 = 1"x600#RF RH1 = 1.5"x150#RF RH3 = 1.5"x300#RF | X = No Flush F = Single 1/4" Flush 7 = Dual 1/4" Flush C = Single 1/2" Flush D = Dual 1/2" Flush All flush connections include monel plug. | <i>Common Ranges</i> P03 = -30" inHg/0/30 psi P16 = 30 psi P17 = 60 psi P18 = 100 psi P19 = 160 psi P20 = 200 psi P21 = 300 psi P22 = 400 psi P26 = 500 psi P23 = 600 psi P24 = 800 psi P25 = 1,000 psi P30 = 1,500 psi Note: Minimum Range of 30 psi. | -MMM = Monel Lower, Monel Diaphragm, Monel Upper, Monel Tube & Socket -MMS = Monel Lower, Monel Diaphragm, Monel Upper, 316L Tube & Socket -HHS = Hastelloy C-276 Lower, HC-276 Diaphragm, HC-276 Upper, 316L Tube & Socket -HHM = Hastelloy C-276 Lower, HC-276 Diaphragm, HC-276 Upper, Monel Tube & Socket -HSS = Hastelloy C-276 Lower, HC-276 Diaphragm, 316L Upper, 316L Tube & Socket Note: Only lower and diaphragm are wetted. |
| Wetted | | | | | |

| DDD | C1 | X | I | T | HVF | -CN |
|--|--|--|--|---|--|---|
| SEAL MOUNTING | SEAL FILL | PULSATION PROTECTION | CASE FILL | LENS | DIAL | OPTIONS |
| DDD = Direct RTR = Cooling Tower B?? = Armored 316 SS Capillary Note: ?? = Length in feet (e.g. 05 = 5 feet) Note: Capillary connection is welded unless otherwise specified. | C1 = Fomblin Y06 C2 = Halocarbon 6.3 C3 = Halocarbon 1.8 C4 = Fluorolube FS-5 | X = None P = Pulse Plus™ (Pulsation Protection) | D = Dry S = Silicone I = Inert G = Glycerin | T = Tempered Safety Glass S = Laminated Safety Glass P = Plastic | HVF = Hi-Vis Dial, HF Service Warning on Front & Back of Gauge HVQ = Hi-Vis Dial, Warning - Customer Choice XXX = Standard White Dial, Black Text | -C3 = 3 Point Calibration Certificate -TS = Stainless Steel Tag -CN = NACE Certificate -PM = Positive Material Identification Certification -MP = Min/Max Pointer (Drag Hand) -AU = Gold-Plated Diaphragm (20 Microns, Back Side of Diaphragm) -CO = Orange Painted Case -CY = Yellow Painted Case |