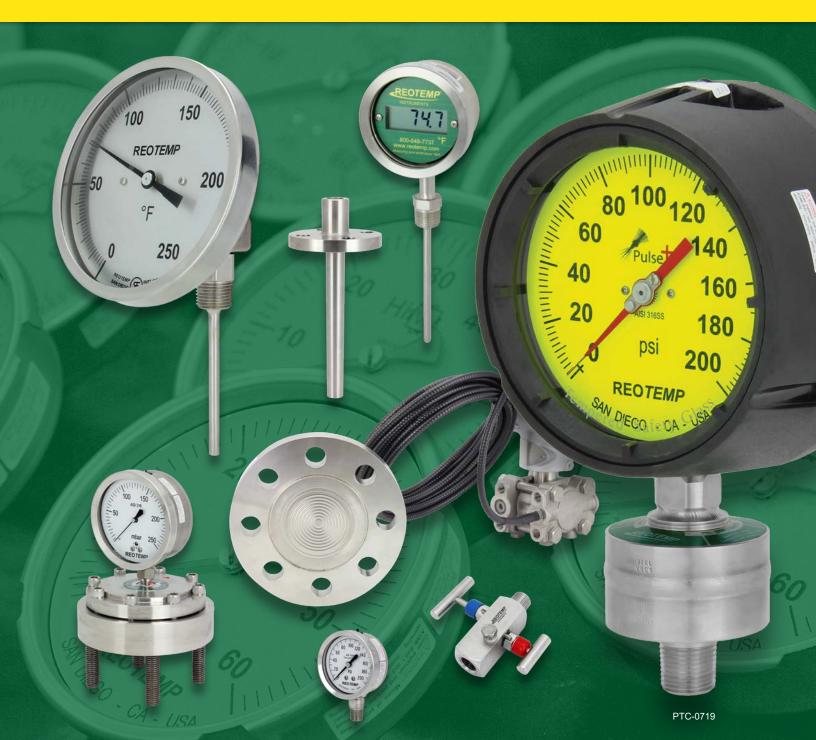


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PRESSURE & TEMPERATURE INSTRUMENTS





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PT45P1A2P21-D-T Available Price Enter QTY 708 \$125 Standa









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About Us









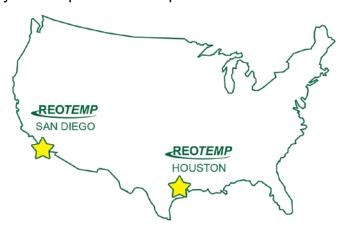






REOTEMP is a globally recognized ISO 9001 manufacturer of temperature and pressure instrumentation. REOTEMP sells through a mature distribution network that reaches all 50 states and 30 countries worldwide. We provide bimetal thermometers, pressure gauges, diaphragm seals, RTDs, thermocouples, pressure transmitters, compost thermometers, and related accessories to a variety of process markets worldwide.

Our reputation is built on high quality products, quick standard lead times, and exceptional customer support. We are dedicated to providing our customers with complete satisfaction, from the first phone call to the design and quality of the instrument they receive. REOTEMP provides both standard and application specific products and is ready and willing to find a solution to all of your temperature and pressure needs.



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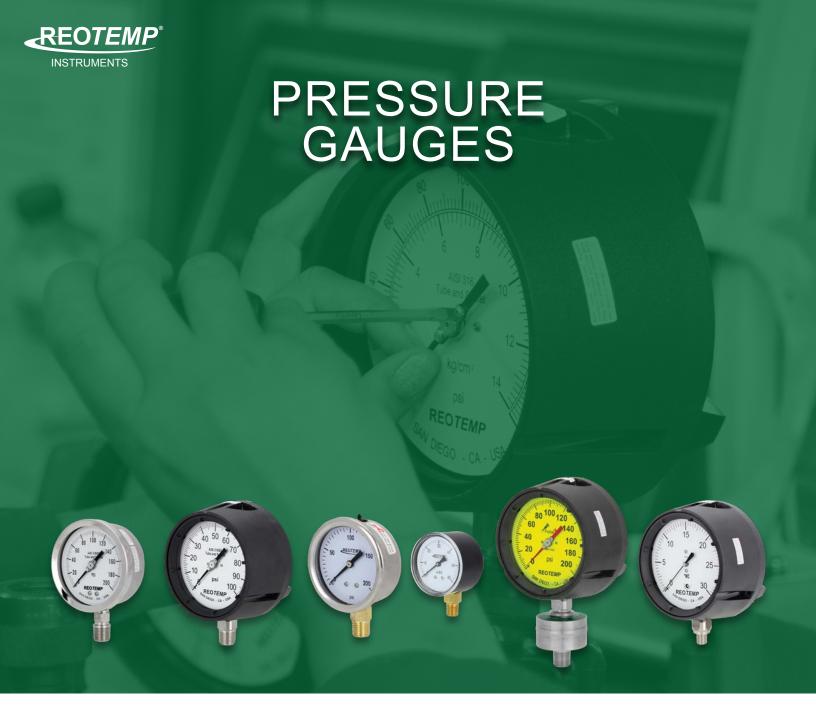




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REOTEMP Pressure Gauges, manufactured under ISO 9001 quality standards, are offered in a wide variety of sizes, ranges, and configurations to meet the demands of any application. From the most rugged process gauges to the cost effective general purpose gauge, you can count on REOTEMP pressure gauges for long and reliable service.

All pressure gauge components should be selected after consideration of the pressure, temperature, media characteristics, and environmental factors. Misapplication or improper installation can cause gauge failure, which can result in damage to other equipment or personal injury. We suggest that users of pressure gauges become familiar with ASME B40.100 which is available at www.asme.org.

To ensure safety, accuracy, and gauge life, good practice requires the consideration of the following factors when selecting a pressure gauge:

1. Pressure Range

REOTEMP gauges can measure pressures from full vacuum to 30,000 psi and gauge and differential pressures as low at 10 inches of water column. Generally, a range of twice the working pressure is recommended with a maximum working pressure not to exceed 75% of scale. If pulsation occurs or media temperature is elevated, then working pressure should be at or below 50% of scale.

1 (800) 648-7737 sales@reotemp.com reotemp.com PTC-0719



Most bourdon tube and capsule gauges can see momentary spikes of 130% of scale without permanent damage to the gauge (see data sheets for specific max working pressure). Information on gauge burst pressure is available under the "Resources" tab at reotemp.com

2. Process Media

All pressure gauge wetted components should be selected to suit the characteristics of the fluid being measured. Consider the following process media characteristics:

Temperature – Specific temperature limits are stated on the gauge data sheets. For media temperatures beyond the gauge limits a diaphragm seal or cooling element should be considered. For steam service a pigtail siphon should be used.

Corrosion – All wetted materials of the pressure gauge are noted on the data sheet. If the process fluid is not compatible with those materials then another gauge should be selected or a diaphragm seal should be installed.

Clogging – The pressure gauge socket and bourdon tube have small orifices that will clog in the presence of solids or high viscosity fluids. A diaphragm seal is recommended for these applications.

Pulsation – A mechanical pressure gauge is uniquely susceptible to the damaging effects of pulsation in a process. Most REOTEMP pressure gauges have restrictor screws (throttle plugs) installed in order to dampen some pulsation. Snubbers can be used to further dampen some types of pulsation. A diaphragm seal with the PulsePlus™ feature is recommended for severe applications.

3. Environmental Factors

The case style, material, and design of the pressure gauge should be selected to suit the environment of the gauge installation. The environmental factors to consider include:

Vibration – Mechanical pressure gauge components are highly susceptible to vibration. Liquid filling of the case is recommended in most applications where vibration exists. In cases of severe vibration the gauge may need to be remotely mounted using flexible capillary tubing with or without a diaphragm seal.

Ambient Temperatures – Most REOTEMP pressure gauges are rated for normal ambient temperatures for outdoor installations in most parts of the globe (-40 to 140°F). If the gauge is liquid filled, care should be taken in selecting the

right fill fluid for the ambient conditions.

Moisture and Corrosion – The presence of moisture, wash-down chemicals, salt water, and other environmental factors should be considered when selecting case style and material. In high humidity environments, liquid filling the case will avoid condensation buildup on the inside of the lens.

4. Accuracy

REOTEMP pressure gauges are available in accuracies ranging from 0.25% (ASME Grade 3-A) to +/- 3/2/3% (ASME Grade B). As a general rule, 1% or better gauges are used in critical process and require more costly components and larger dial sizes. All REOTEMP pressure gauges are calibrated to the stated accuracy at the time of manufacture; further certification and logging of point data can be provided on NIST traceable reference equipment.

5. Connection Size and Mounting

Most REOTEMP gauges come standard with $\frac{1}{4}$ " or $\frac{1}{2}$ " Male NPT process connections. Many other connection types are available including BSP, coned high pressure fittings, SAE, tube stub, VCR, and more.

The following mounting methods are most common for pressure gauges:

- **Bottom Mount** (stem mount)
- **Rear Mount** (lower back or center back connection based on model)
- **Wall Mount** (includes a back flange attached to the gauge)
- Panel Mount (includes a front flange or u-clamp attached to the gauge)

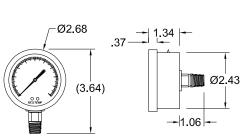
6. Dial Selection

REOTEMP pressure gauges are available in dial sizes ranging from 1.5" to 6". Typically, space consideration, accuracy, and readability are the driving factors behind dial size selection. For pressure gauges being installed into low-light or difficult to read environments, a Hi-Vis™ dial is recommended. Color bands, dual scales, tag numbers, and custom text are other options when selecting a pressure gauge for a specific application.



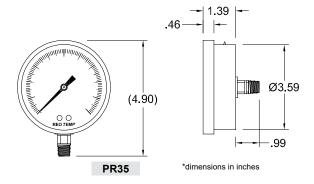
REOTEMP's Series PR gauge offers rugged, all-welded stainless steel construction ideal for heavy-duty industrial applications. The stainless steel case, tube and socket are welded together for superior case sealing and gauge integrity. The twist-off bayonet ring offers easy access for field repair and calibration services. Liquid filling (at the factory or in the field) is recommended for applications involving vibration.

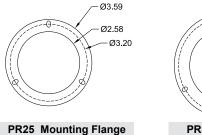


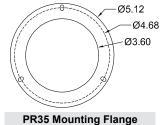


*dimensions in inches

PR25















Fillable

Dials

Custom Logo

Diaphragm Seal Compatible

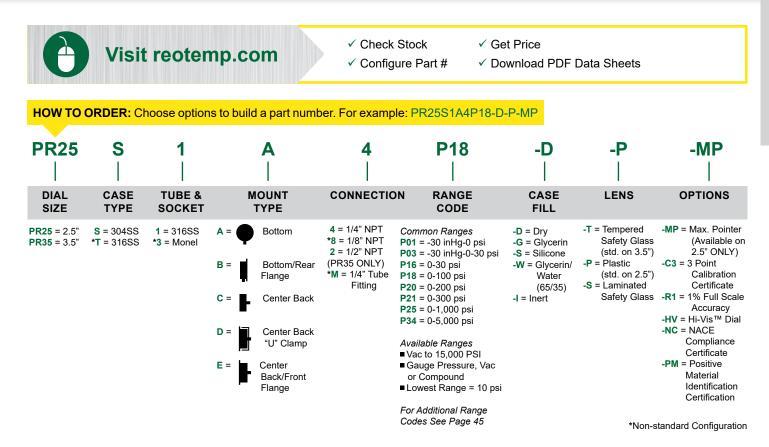
FEATURES / BENEFITS

- All-Welded Stainless Steel Construction
- Removable Bayonet Ring with Adjustable Pointer
- Field Fillable Case, NEMA 4X/IP65
- Rugged, Long-Lasting Design



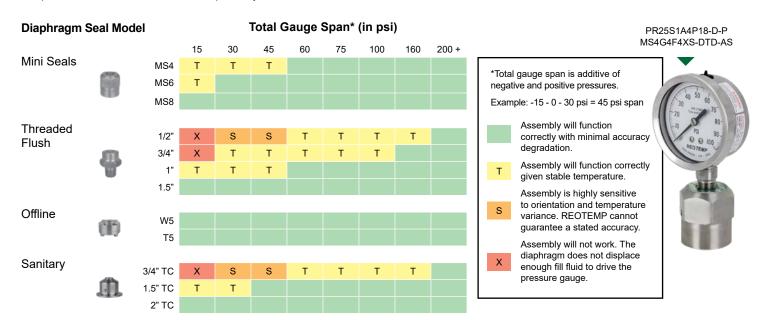
SPECIFICATIONS					
Accuracy	2 - 1 - 2%, ASME Grade A (2% up, 4% down for 10,000 psi and higher).				
Ambient Limits	-40°F/150°F				
Process Limits	-40°F/250°F				
Process Limits with Diaphragm Seal	-60°F/400°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.				
Wetted Materials	Tube: 316SS Seamless Socket: 316SS				
Lens	Tempered Safety Glass , Plastic or Laminated Safety Glass				
Other Materials	Case: 304SS Ring: 304SS Twist-Off Bayonet Dial: White Aluminum with Black Letters Case-Socket: Welded				
Fillable	Yes				
Restrictor Screw	Yes, removable.				
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale				
Environmental Protection	NEMA 4X/IP65				
Weight	2.5" = 0.4 lbs (0.6 lbs filled), 3.5" = 0.7 lbs (1.0 lbs filled)				





Diaphragm Seal Suitability Guide

For applications where a diaphragm seal is required, the following diaphragm seal model types are most commonly assembled and filled to Series PR25/35 pressure gauges. This matrix identifies which diaphragm seal is appropriate based on the specified pressure range. Please reference the diaphragm seal data sheet and seal fill fluid guide for additional application considerations including max pressure, temperature limits, and material compatibility.

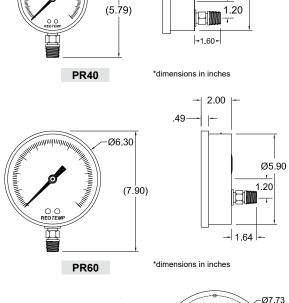




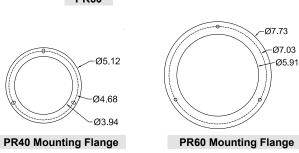
REOTEMP's Series PR gauge offers rugged, all-welded stainless steel construction ideal for heavy-duty industrial applications. The stainless steel case, tube and socket are welded together for superior case sealing and gauge integrity. The twist-off bayonet ring offers easy access for field repair and calibration services. Liquid filling (at the factory or in the field) is recommended for applications involving vibration. For high-corrosive, high-temp, or severe service applications, a diaphragm seal is recommended.



Ø4.30



Ø3.94













Fillable

Dials

Accuracy

Custom Logo

Diaphragm Seal Compatible

FEATURES / BENEFITS

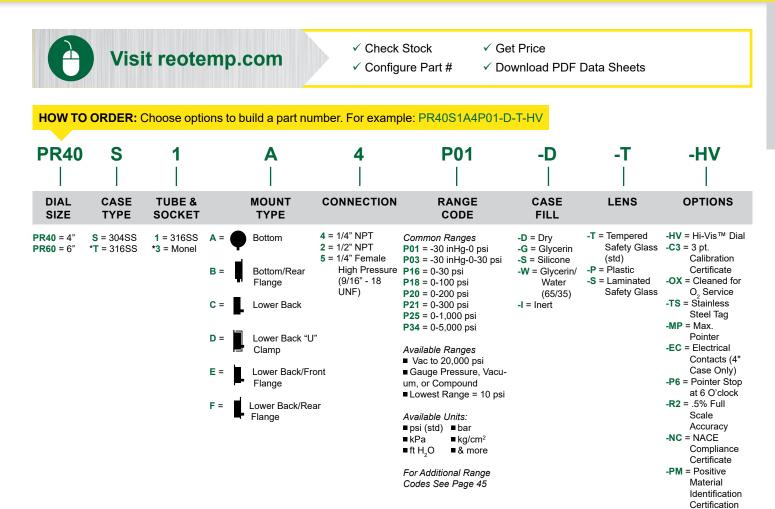
- All-Welded Stainless Steel Construction
- Removable Bayonet Ring, Micro Adjustable Pointer
- Field Fillable Case, NEMA 4X/IP65
- Internal Overload and Underload Stops, Floating Zero
- Safety Blow-Out Relief



SPECIFICATIONS

Accuracy	1%, ASME Grade 1A (10K to 20K; 2% Upscale, 4% Downscale)
Ambient Limits	-40°F/150°F
Process Limits	-40°F/250°F
Process Limits with Diaphragm Seal	-60°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	Tube: 316SS Seamless Socket: 316SS
Lens	Tempered Safety Glass , Plastic or Laminated Safety Glass
Other Materials	Case: 304SS Ring: 304SS Twist-Off Bayonet Dial: White Aluminum with Black Letters Case-Socket: Welded
Fillable	Yes
Restrictor Screw	Yes, removable.
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Environmental Protection	NEMA 4X/IP65
Weight	4" = 1.3 lbs (2.0 lbs filled), 6" = 2.1 lbs (4.2 lbs filled)



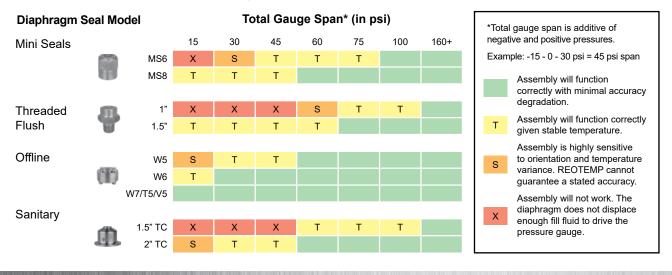


Diaphragm Seal Suitability Guide

*Non-standard Configuration

6

For applications where a diaphragm seal is required, the following diaphragm seal model types are most commonly assembled and filled to Series PR40/60 pressure gauges. This matrix identifies which diaphragm seal is appropriate based on the specified pressure range. Please reference the diaphragm seal data sheet and seal fill fluid guide for additional application considerations including max pressure, temperature limits, and material compatibility.





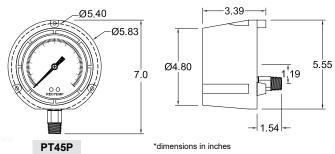
Series PT45

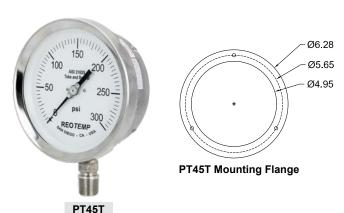
4.5" INDUSTRIAL PROCESS GAUGE

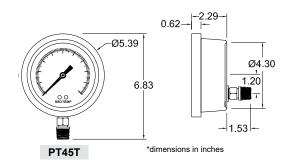
REOTEMP's Series PT45 process gauge is designed to withstand corrosive atmospheres and media, pulsation and vibration; a very rugged gauge engineered for the process industries. The solid front and blowout back provides a high degree of user safety. Note: For highly-corrosive, high-temperature, or severe service applications a diaphragm seal is recommended.





















Fillable

Dials

Accuracy

Custom

Diaphragm Seal Compatible Logo

FEATURES / BENEFITS

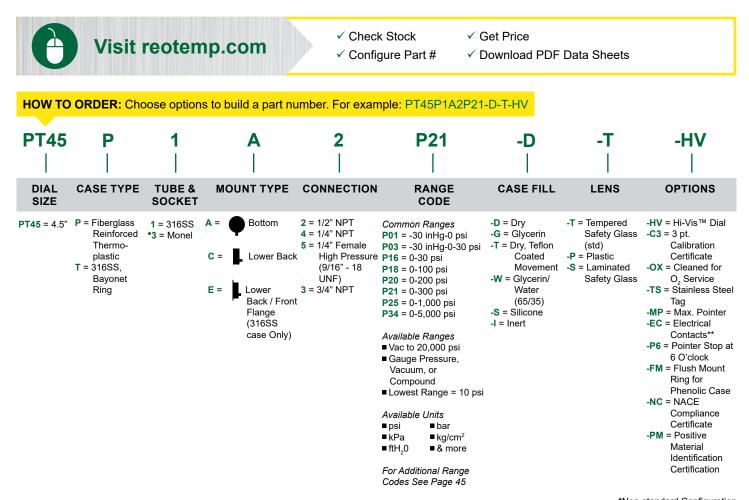
- Safety Pattern Design
- Solid Front/Blowout Back Safety Case
- All Stainless Steel Internal Parts
- Internal Overload and Underload Stops
- Field Fillable Case
- Micro-Adjustable Pointer with Floating Zero

SPECIFICATIONS				
Accuracy	±0.5%, Grade 2A (10k - 20k psi = 1% upscale, 2% downscale)			
Ambient Limits	-40°F/150°F			
Process Limits	-40°F/250°F			
Process Limits with Diaphragm Seal	-60°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	Tube: 316SS Seamless Socket: 316SS			
Lens	Tempered Safety Glass (Standard), Plastic or Laminated Safety Glass			
Other Materials	Case: Reinforced Thermoplastic (Phenolic) or 316SS Ring: Phenolic Turret Twist-Off or SS Twist-Off Bayonet Dial: White Aluminum, Black Letters, Case-to-Socket: O-Ring			
Fillable	Yes			
Restrictor Screw	Yes, removable.			
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale			
Environmental Protection	NEMA 4X/IP65			
Weight	Phenolic (Dry) = 2.5 lbs Phenolic (Filled) = 3.5 lbs SS (Dry) = 2 lbs SS (Filled) = 3 lbs			

Series PT45



4.5" INDUSTRIAL PROCESS GAUGE



*Non-standard Configuration **Phenolic Case Only

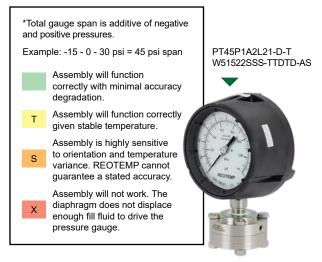
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Diaphragm Seal Suitability Guide

For applications where a diaphragm seal is required, the following diaphragm seal model types are most commonly assembled and filled to Series PT45 pressure gauges. This matrix identifies which diaphragm seal is appropriate based on the specified pressure range. Please reference the diaphragm seal data sheet and seal fill fluid guide

for additional application considerations including max pressure, temperature limits, and material compatibility.

Diaphragm Seal		Total Gauge Span* (in psi)							
Model			15	30	45	60	75	100	160+
Mini Seals		MS6	X	S	Т	Т	Т		
	1	MS8	S	Т	Т				
Threaded	M.	1"	X	X	X	S	S	Т	
Flush	T	1.5"	S	S	Т	Т			
0 (%)									
Offline		W5	S	Т	Т				
		W6	Т						
		T5	S	Т					
		W7/V5							





ALL-WELDED PROCESS SEAL GAUGE

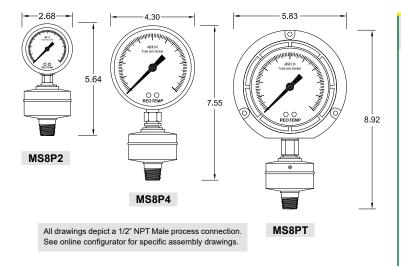
REOTEMP's All-Welded Pressure Seal Gauge offers superior diaphragm seal safety and performance at an economical price. Combined with a gauge or transmitter, the tamper-resistant all-welded diaphragm seal reduces potential leak points, making it ideal for installations where process integrity and worker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



DIAPHRAGM SEAL MAX WORKING PRESSURE (AT 100°F)							
		316SS	Hast. C-276	Monel			
	1/4" NPT	5,000 psi	2,000 psi	2,000 psi			
Male	1/2" NPT	5,000 psi	2,000 psi	2,000 psi			
iviale	3/4" NPT	2,000 psi	n/a	n/a			
	1" NPT	1,000 psi	n/a	n/a			
Famala	1/4" NPT	2,500 psi	n/a	n/a			
Female	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.

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)				

10

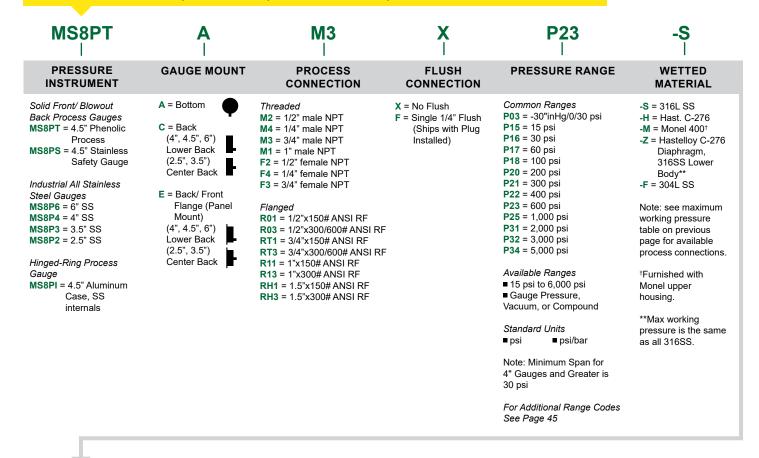


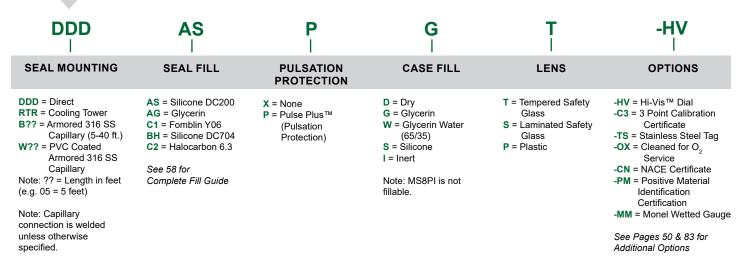
ALL-WELDED PROCESS SEAL GAUGE



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Download PDF Data Sheets

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



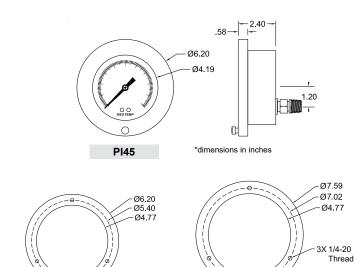


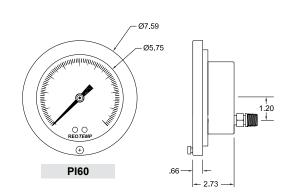


HINGE-FRONT INDUSTRIAL PROCESS GAUGE

REOTEMP's Series PI45 process gauge is designed to withstand corrosive atmospheres and media, ideal for panel builders in the heavyindustrial markets. The hinge-front case allows for easy access to the gauge dial while still panel mounted.







Integrated PI60 Mounting Flange

Integrated PI45 Mounting Flange

reotemp.com







Dials Accuracy

Custom Logo

Diaphragm Seal Compatible

FEATURES / BENEFITS

- All Stainless Steel Internal Parts
- Internal Overload and Underload Stops
- Micro-Adjustable Pointer with Floating Zero
- Hinge-Front Case for Easy Recalibration

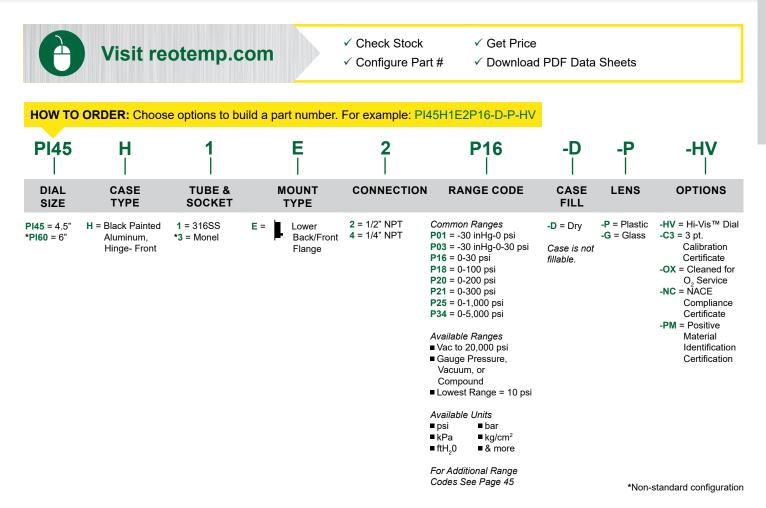


SPECIFICATI	ONS
Accuracy	±0.5%, ASME Grade 2A, (10k-20k psi, 1% upscale and 3% downscale)
Ambient Limits	-40°F/150°F
Process Limits	-40°F/250°F
Process Limits with Diaphragm Seal	-60°F/400°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Tube: 316SS Seamless Socket: 316SS
Lens	Glass (Standard on 6") Plastic (Standard on 4.5")
Other Materials	Case: Black Painted Aluminum Ring: Black Painted Aluminum Dial: Aluminum Case-to-Socket: O-Ring, Vented
Fillable	No
Restrictor Screw	Yes
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Weight	2.5 lbs

*dimensions in inches

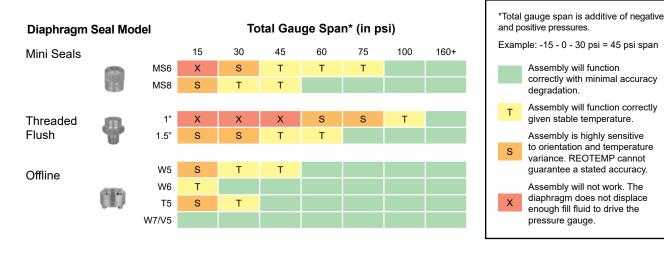


HINGE-FRONT INDUSTRIAL PROCESS GAUGE



Diaphragm Seal Suitability Guide

For applications where a diaphragm seal is required, the following diaphragm seal model types are most commonly assembled and filled to Series Pl45 pressure gauges. This matrix identifies which diaphragm seal is appropriate based on the specified pressure range. Please reference the diaphragm seal data sheet and seal fill fluid guide for additional application considerations including max pressure, temperature limits, and material compatibility.



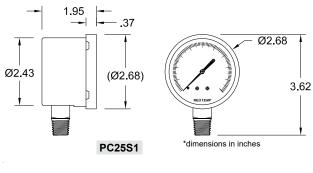


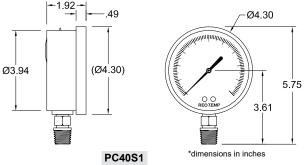
ALL STAINLESS STEEL LOW PRESSURE GAUGE

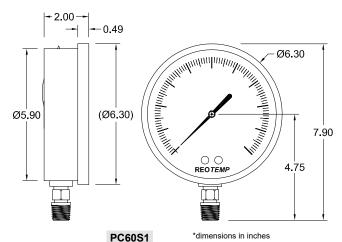
REOTEMP's Series PC low pressure gauges offer accurate and reliable measurements of gaseous media. Offered with stainless steel internals, the Series PC is designed to withstand corrosive media and ensure a long-lasting instrument.

















Dials

Custom Logo

Diaphragm Seal Compatible

FEATURES / BENEFITS

- Sensitive Diaphragm/Capsule Mechanism
- All-Welded 316 Stainless Steel Capsule and Socket
- Easy-Access Zero Reset Screw on Dial

reotemp.com



SPECIFICATI	ONS
Accuracy	2 - 1.6 - 2%
Ambient Limits	-40°F/150°F
Process Limits	-40°F/200°F
Process Limits with Diaphragm Seal	-60°F/350°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Capsule: 316LSS Socket: 316SS
Lens	Tempered Safety Glass (Standard), Plastic or Laminated Safety Glass
Other Materials	Case: 304SS Ring: 304SS, Bayonet Twist-Off Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection, Vented Case
Fillable	No
Restrictor Screw	Yes
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Weight	2.5" = 0.5 lbs 4" = 1.1 lbs 6" = 2.1 lbs

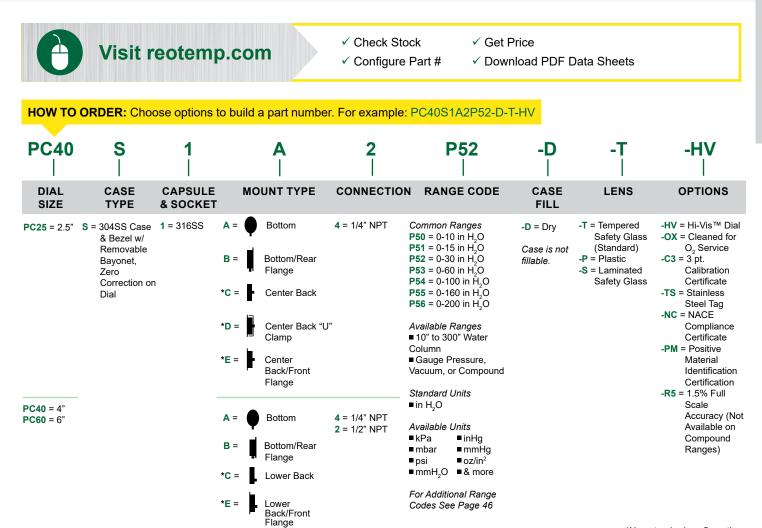
Series PCS



*Non-standard configuration

14

ALL STAINLESS STEEL LOW PRESSURE GAUGE



Diaphragm Seal Suitability Guide

Low pressure capsule gauges are very sensitive and require diaphragm seals with high sensitivity and high fluid displacement. If a diaphragm seal is required to isolate the process fluid from the pressure gauge, the following seal model types are available for the Series PC.

Diaphragm Seal Model High Displacement



								_		
	10"	15"	20"	30"	40"	60"	100"	160"	200"	300"
W6	Х	X	Χ	X	X	Х	S	S	Т	Т
W7	Χ	Х	Χ	S	S	Т	Т	Т		
V5	Χ	S	S	Т	Т	Т	Т	Т		
T6	Х	Χ	Χ	Χ	Χ	S	S	S	S	S

Total Gauge Span* (in H₂O)

*Total gauge span is additive of negative and positive pressures. Example: -15 - 0 - 30 psi = 45 psi span Assembly will function correctly with minimal accuracy degradation. Assembly will function correctly Т given stable temperature. Assembly is highly sensitive to orientation and temperature variance. REOTEMP cannot guarantee a stated accuracy. Assembly will not work. The diaphragm does not displace enough fill fluid to drive the pressure gauge.

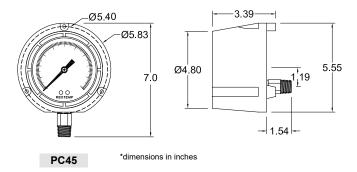


4.5" LOW PRESSURE CAPSULE GAUGE

REOTEMP's Series PC45 low pressure capsule gauges offer accurate and reliable measurements of gaseous media. Offered with stainless steel internals, they are designed to withstand corrosive media and ensure a long-lasting instrument.













Dials

Custom Logo

Diaphragm Seal Compatible

FEATURES / BENEFITS

- Sensitive Diaphragm/Capsule Mechanism
- Safety Blowout Back
- Easy-Access Zero Reset on Dial

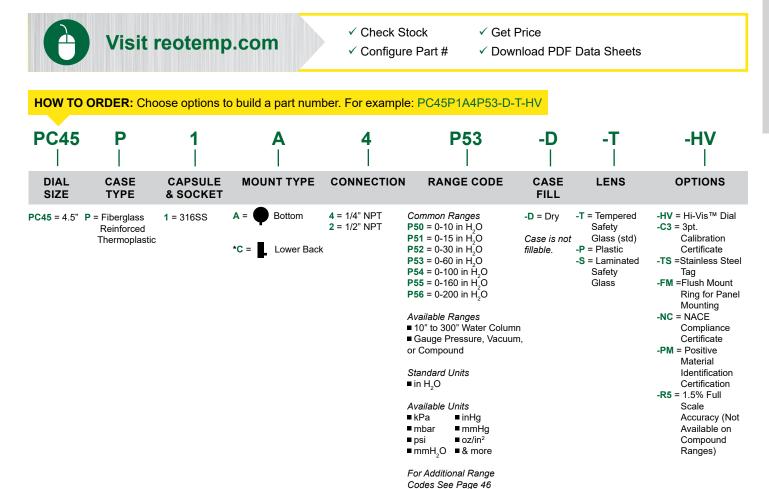


SPECIFICATION	ONS
Accuracy	2 - 1.6 - 2% Full Scale
Ambient Limits	-40°F/150°F
Process Limits	-40°F/200°F
Process Limits with Diaphragm Seal	-60°F/350°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Capsule: 316LSS Socket: 316SS
Lens	Tempered Safety Glass(Standard), Plastic or Laminated Safety Glass
Other Materials	Case: Reinforced Thermoplastic, Phenolic Ring: Phenolic, Twist-Off Dial: Aluminum Case-to-Socket: O-ring, Vented Case
Fillable	No
Restrictor Screw	Yes
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Environmental Protection	NEMA 4X/IP65
Weight	2.3 lbs

Series PC45



4.5" LOW PRESSURE CAPSULE GAUGE



*Non-standard configuration

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Diaphragm Seal Suitability Guide

Low pressure capsule gauges are very sensitive and require diaphragm seals with high sensitivity and high fluid displacement. If a diaphragm seal is required to isolate the process fluid from the pressure gauge, the following seal model types are available for the Series PC.

Diaphragm Seal Model

High Displacement



	10"	15"	20"	30"	40"	60"	100"	160"	200"	300"
W6	X	Х	Х	Х	Х	X	S	S	Т	Т
W7	Х	Х	Χ	S	S	Т	T	T		
V5	Х	S	S	T	Т	Т	Т	T		
T6	Х	Х	Х	Х	Х	S	S	S	S	S

Total Gauge Span* (in H₂O)

*Total gauge span is additive of negative and positive pressures. Example: -15 - 0 - 30 psi = 45 psi span Assembly will function correctly with minimal accuracy degradation. Assembly will function correctly Т given stable temperature. Assembly is highly sensitive to orientation and temperature variance. REOTEMP cannot guarantee a stated accuracy. Assembly will not work. The diaphragm does not displace enough fill fluid to drive the pressure gauge.



2.5" GENERAL PURPOSE LOW PRESSURE GAUGE

REOTEMP's Series PC25N2/S2 brass gauges are designed for use in low pressure applications with dry gasses that are compatible with copper alloy. Examples include: exhaust systems and blowers.



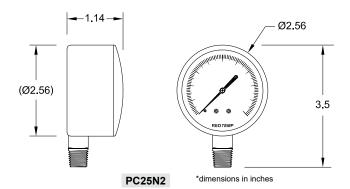


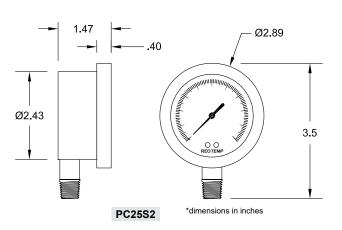
FEATURES / BENEFITS





- Black Steel or Stainless Steel Case
- · Easy-Access Zero Reset on Dial
- · Economical Design for Non-Severe Service





SPECIFICATI	ONS
Accuracy	3 - 2 - 3%, ASME Grade B
Ambient Limits	-40°F/140°F
Process Limits	-40°F/140°F
Process Limits with Diaphragm Seal	Cannot be mounted to a diaphragm seal.
Wetted Materials	Capsule: Copper Alloy Socket: Copper Alloy
Lens	Plastic (Standard on "N" case, optiona on "S" case) Glass (Standard on "S" case, not available on "N" case)
Other Materials	Case: Black Painted Steel or 304SS Ring: Snap-In Plastic or 304SS Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	No
Restrictor Screw	No
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Weight	PC25N = .25 lbs, PC25S = .4 lbs

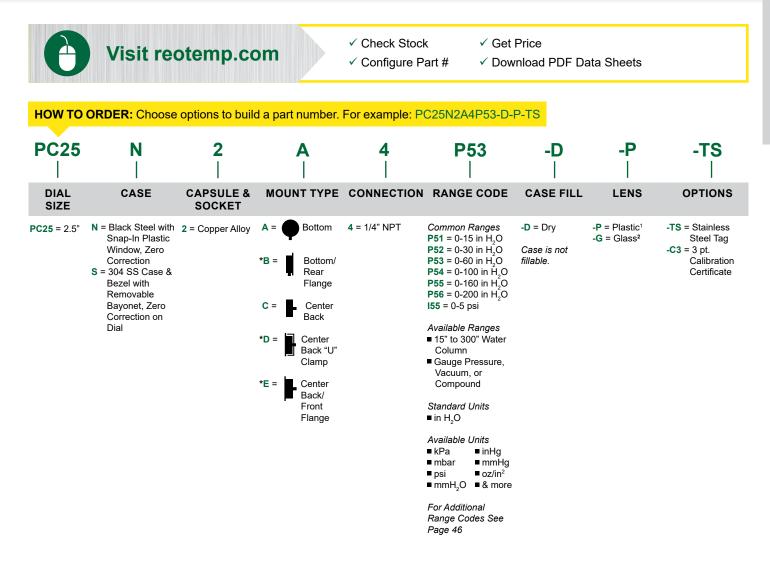
reotemp.com

PTC-0719

Series PC25N2/S2



2.5" GENERAL PURPOSE LOW PRESSURE GAUGE



*Non-standard configuration

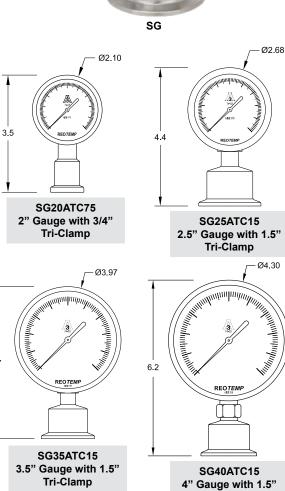
¹Standard on "N" Case
²Standard for "S" Case but Not Available on "N" Case



SANITARY PRESSURE GAUGE

REOTEMP SG sanitary gauges are specially designed to meet the demanding safety requirements of the food, dairy, beverage, pharmaceutical, and biotech applications. REOTEMP SG gauges come standard with 3-A certification.





For specific assembly drawings see online configurator.









Certified

Fillable

Custom Logo

Dials

FEATURES / BENEFITS

- Quick Connect Tri-Clamp® Design
- Fast Removal and Installation of Instruments, to Allow Flushing or Changing the Process Media
- Ideal for Clean-in-Place, or Equipment Washdown
- Designed to Meet 3-A Sanitary Standards
- Comes Standard with 3-A Certification
- All Welded 316SS Tube, Socket, Seal, and Diaphragm

SPECIFICATIONS

Accuracy (1.5" & Larger Tri-Clamp)	±1.5% for 100 psi and Above ±2% for Vacuum, Compound and <100 psi
Accuracy (3/4" Tri- Clamp)	±2.5% Upscale ±4% Downscale
Ambient Limits	-40°F/150°F* (-40°F/250°F* with Dry Case and Polysulfone Lens with Weep Hole)
Process Limits	-40°F/400°F* (-110°F/750°F* Available with Cooling Tower or Capillary)
Wetted Materials	Body: 316SS Internal Parts: 316SS Wetted Surface Finish: 18-24 Ra
Lens	Plastic (Standard), Laminated Safety Glass, Tempered Safety Glass or Polysulfone
Other Materials	Case: 304SS Dial: White Aluminum, Black Letters
Fillable	Yes, All Models Except SG20
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Environmental Protection	NEMA 4X/IP65

*3/4" Tri-clamp changes both ambient and process temp limits to 20°F/150°F.

PTC-0719

Tri-Clamp

Series SG

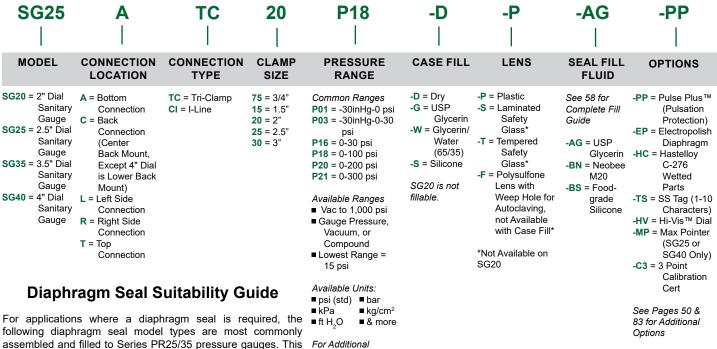


SANITARY PRESSURE GAUGE



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Download PDF Data Sheets

HOW TO ORDER: Choose options to build a part number. For example: SG25ATC20P18-D-P-AG-PP



Range Codes See Page 45

For applications where a diaphragm seal is required, the following diaphragm seal model types are most commonly assembled and filled to Series PR25/35 pressure gauges. This matrix identifies which diaphragm seal is appropriate based on the specified pressure range. Please reference the diaphragm seal data sheet and seal fill fluid guide for additional application considerations including max pressure, temperature limits, and material compatibility.

Total Gauge Span* (in psi)

				ota. O	uugu t	pun (po.,			
	Tri-Clamp	15	30	45	60	75	100	160	200 +	
	3/4"	Х	S	S	T	Т				*Total gauge span is additive of negative
SG20	1.5"	Т								and positive pressures.
	2"									Example: -15 - 0 - 30 psi = 45 psi span
										Assembly will function
	3/4"	X	S	S	Т	Т	T	Т		correctly with minimal accuracy
SG25	1.5"	Т	Т							degradation.
	2"									Assembly will function correctly given stable temperature.
										Assembly is highly sensitive
	3/4"	Х	S	S	T	Т	T	Т		to orientation and temperature
SG35	1.5"	Т	T							variance. REOTEMP cannot guarantee a stated accuracy.
	2"									Assembly will not work. The
										diaphragm does not displace
	3/4"	Х	X	X	X	Х	X	Х	X	enough fill fluid to drive the pressure gauge.
SG40	1.5"	Χ	Х	X	T	Т	T			present gauge.
3040	2"	S	T	Т						
	2.5"	Т								

Tri-Clamp® is a registered trademark of Alpha Laval Inc

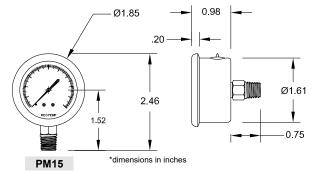
20

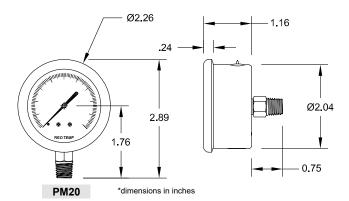


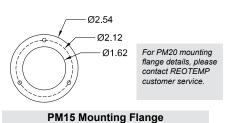
REOTEMP's Series PM feature a stainless steel case, tube and socket, making the gauges resistant to corrosion from both environment and media. Liquid filling is recommended for severe service. The economical and attractive crimp ring design, along with a variety of convenient panel mounting adapters, make this popular gauge the right choice for many applications.



PM15C1A PM15C









Fillable

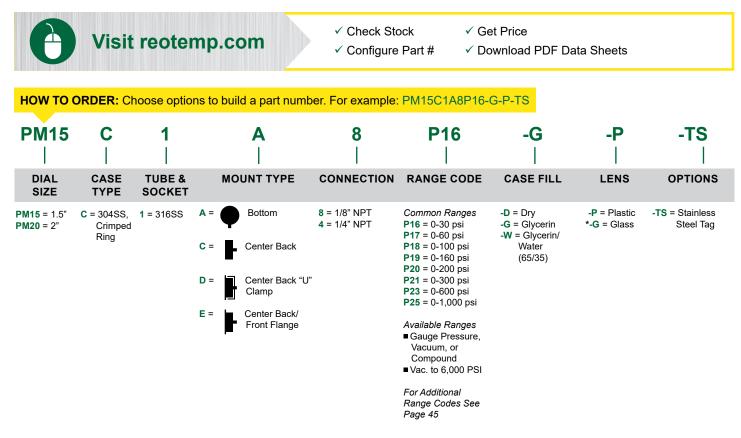
FEATURES / BENEFITS

- · Stainless Steel Case and Crimped Ring
- Stainless Steel Wetted Parts
- Glycerin Filled or Dry/Fillable
- Compact Design for Space-Limited Installation

SPECIFICATI Accuracy	3 - 2 - 3%, ASME Grade B
Ambient Limits	-40°F/140°F
Process Limits	-40°F/150°F
Process Limits with Diaphragm Seal	Cannot be mounted to a diaphragm seal.
Wetted Materials	Tube: 316SS Socket: 316SS
Lens	Plastic (Standard) or Glass
Other Materials	Case: 304SS Ring: 304SS Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	Yes
Restrictor Screw	Built-in, Non-Removable
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Environmental Protection	NEMA 4X/IP65
Weight	1.5" = 0.15 lbs (0.25 lbs filled) 2" = 0.30 lbs (0.4 lbs filled)

PTC-0719





*Non-standard configuration

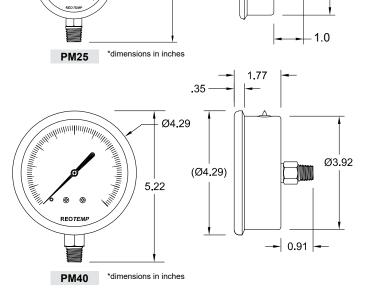
reotemp.com



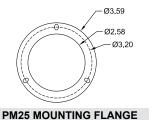
REOTEMP's Series PM feature a stainless steel case, tube and socket, making the gauges resistant to corrosion from both environment and media. Liquid filling is recommended for severe service. The economical and attractive crimp ring design, along with a variety of convenient panel mounting adapters, make this popular gauge the right choice for many applications.

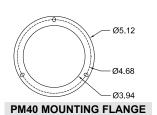
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3.5









Custom Logo Fillable

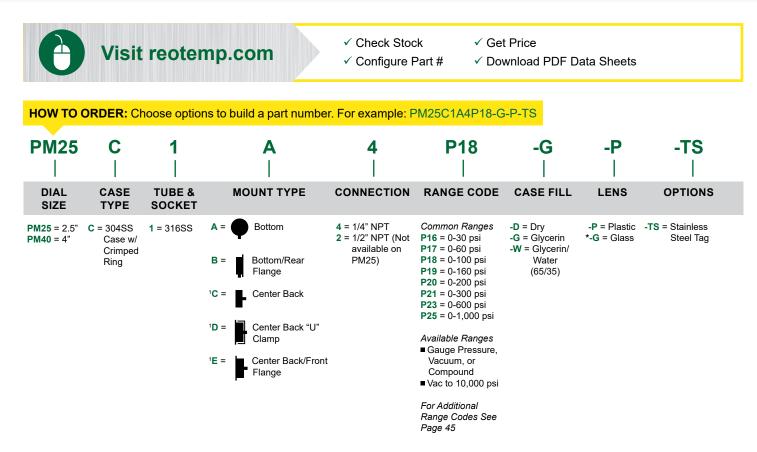
FEATURES / BENEFITS

- **Economical Gauge with Stainless Steel Case** and Internals
- Case is Easy to Fill in the Field
- Ideal for Both Indoor and Outdoor Applications

SPECI	FICAT	IONS
Accuracy		2 - 1

Accuracy	2 - 1.6 - 2%, ASME Grade B+
Ambient Limits	-40°F/150°F
Process Limits	-40°F/150°F
Process Limits with Diaphragm Seal	Not recommended for diaphragm seal mounting, see PR model gauges for diaphragm seal mounting.
Wetted Materials	Tube: 316SS Socket: 316SS
Lens	Plastic (Standard) or Glass
Other Materials	Case: 304SS Ring: 304SS Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	Yes
Restrictor Screw	Built-in, Non-Removable
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Environmental Protection	NEMA 4X/IP65
Weight	2.5" = 0.3 lbs (0.45 lbs filled) 4" = 0.8 lbs (1.4 lbs filled)





*Non-standard configuration ¹Non-standard configuration for PM40

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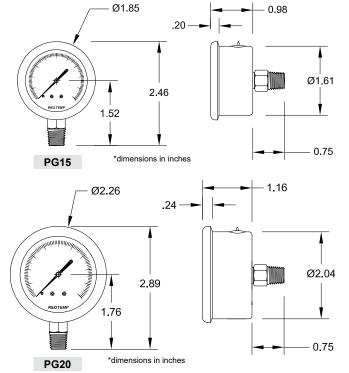
INDUSTRIAL STAINLESS/BRASS GAUGE

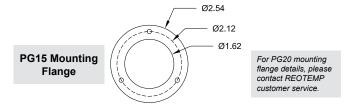
REOTEMP's Series PG gauges are an economical choice where ambient corrosion and vibration are of concern. The stainless steel case and ring offer excellent corrosion resistance, and is fillable for vibration or pulsation applications. It is suitable for all fluids compatible with copper alloys.





PG15C2C









Fillable Custom Logo

FEATURES / BENEFITS

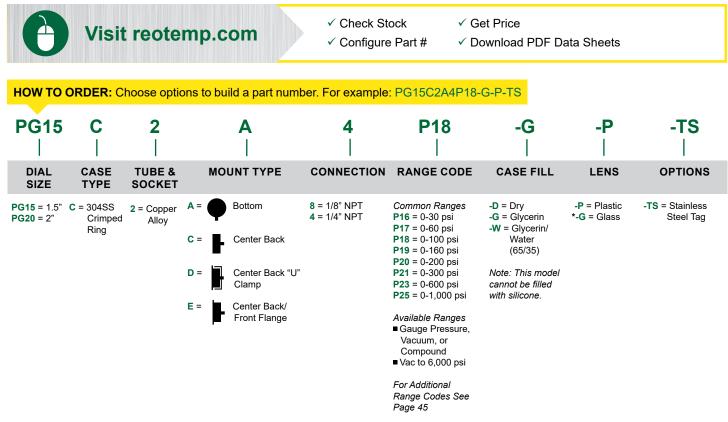
- Stainless Steel Case
- Copper Alloy Wetted Parts
- Glycerin Filled or Dry/Fillable
- **Convenient Panel Mounting Adapters**

SPECIFICATI	ONS
Accuracy	3 - 2 - 3%, ASME Grade B
Ambient Limits	-40°F/140°F
Process Limits	-40°F/140°F
Process Limits with Diaphragm Seal	Cannot be mounted to a diaphragm seal.
Wetted Materials	Tube: Copper Alloy Socket: Copper Alloy
Lens	Plastic (Standard) or Glass
Other Materials	Case: 304SS Ring: 304SS Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	Yes
Restrictor Screw	Built-in, Non-Removable
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Environmental Protection	NEMA 4X/IP65
Weight	1.5" = 0.15 lbs (0.25 lbs filled) 2" = 0.3 lbs (0.4 lbs filled)

Series PG15/20C



INDUSTRIAL STAINLESS/BRASS GAUGE

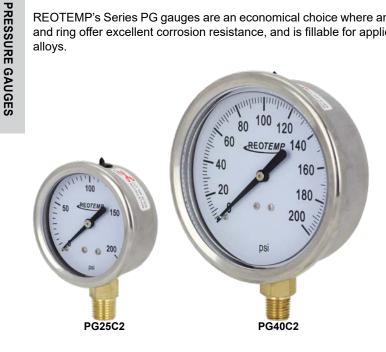


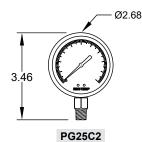
*Non-standard configuration

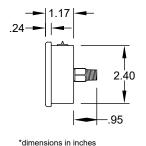
26

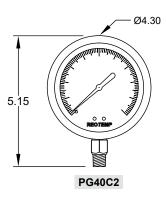
INDUSTRIAL STAINLESS/BRASS GAUGE

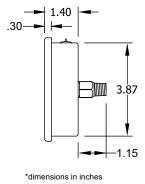
REOTEMP's Series PG gauges are an economical choice where ambient corrosion and vibration are of concern. The stainless steel case and ring offer excellent corrosion resistance, and is fillable for applications with vibration. It is suitable for all fluids compatible with copper alloys.

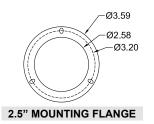


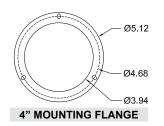
















Fillable **Custom Logo**

FEATURES / BENEFITS

- Stainless Steel Case
- Copper Alloy Wetted Parts
- Field Fillable Case
- **Convenient Panel Mounting Adapters**



SPECIFICATIONS	
Accuracy	2.5" = 3 - 2 - 3%, ASME Grade B 4" = 2 - 1 - 2%, ASME Grade A
Ambient Limits	-40°F/140°F
Process Limits	-40°F/140°F
Process Limits with Diaphragm Seal	Cannot be mounted to a diaphragm seal.
Wetted Materials	Tube: Copper Alloy Socket: Copper Alloy
Lens	Plastic (Standard) or Glass
Other Materials	Case: 304SS Ring: 304SS Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	Yes
Restrictor Screw	Built-in, Non-Removable
Maximum Working	Stable = 100%

Momentary = 110% of scale

2.5" = 0.25 lbs (0.4 lbs filled) 4" = 0.6 lbs (1.2 lbs filled)

NEMA 4X/IP65

Pressure

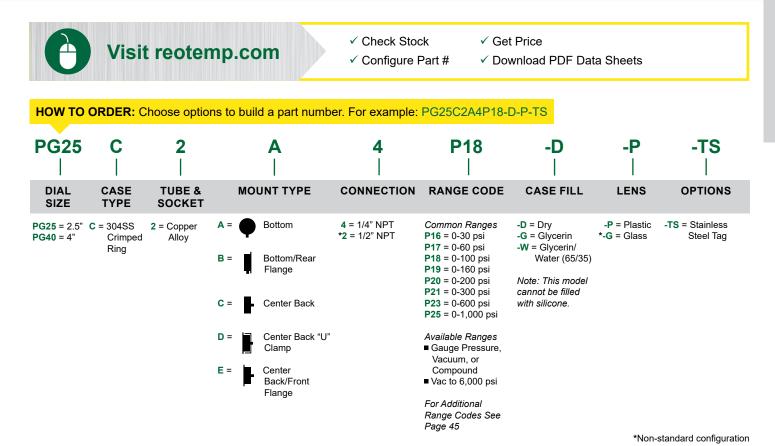
Protection Weight

Environmental

28



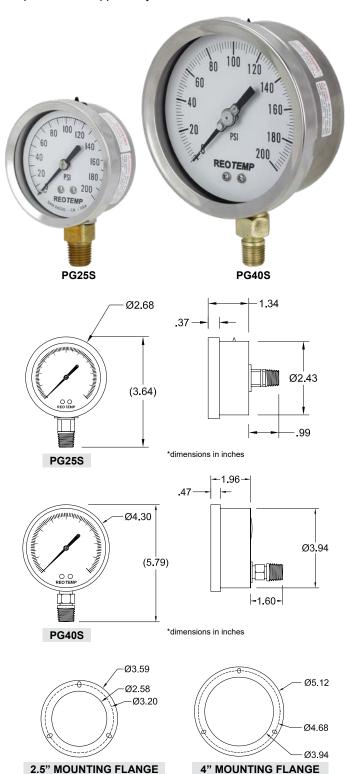
INDUSTRIAL STAINLESS/BRASS GAUGE





REPAIRABLE STAINLESS/BRASS GAUGE

REOTEMP's Series PG gauges are an economical choice where ambient corrosion and vibration are of concern. The stainless steel case and ring offer excellent corrosion resistance, and are fillable for applications with vibration. The PG25/40S is suitable for all fluids compatible with copper alloys.











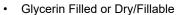
Fillable Dials

Custom Logo

Diaphragm Seal Compatible

FEATURES / BENEFITS

- Stainless Steel Case
- Copper Alloy Wetted Parts



Removable Bayonet, Adjustable Pointer



SPECIFICATIONS2.5" = 2 - 4" = 1%,

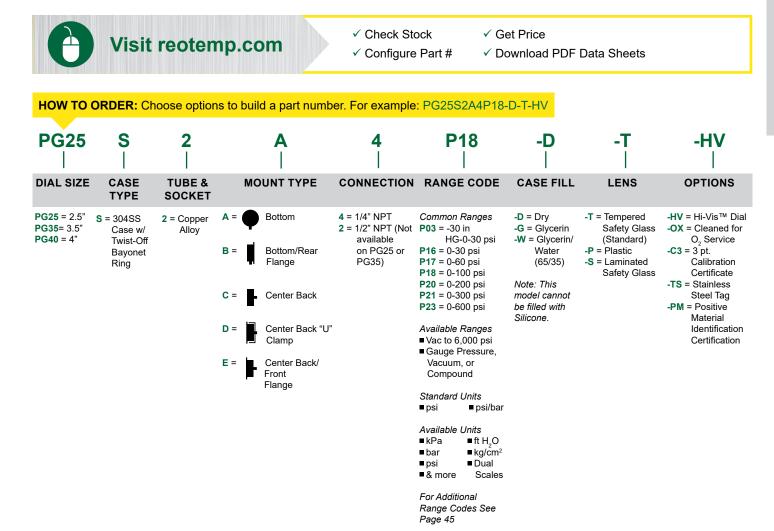
Accuracy	2.5" = 2 - 1 - 2%, ASME Grade A 4" = 1%, ASME Grade 1A
Ambient Limits	-40°F/140°F
Process Limits	-40°F/150°F
Process Limits with Diaphragm Seal	Not recommended for diaphragm seal mounting, see PR model gauges for diaphragm seal mounting.
Wetted Materials	Tube: Copper Alloy Socket: Copper Alloy
Lens	Tempered Safety Glass (Standard), Plastic, or Laminated Safety Glass
Other Materials	Case: 304SS Ring: 304SS Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	Yes
Restrictor Screw	Yes, Removable
Maximum Working Pressure	Stable = 100% Momentary = 130% of scale
Environmental Protection	NEMA 4X/IP65
Weight	2.5" = 0.4 lbs (0.6 lbs filled) 4" = 1.3 lbs (2 lbs filled)

30

Series PG25/40S



REPAIRABLE STAINLESS/BRASS GAUGE





GENERAL PURPOSE GAUGE

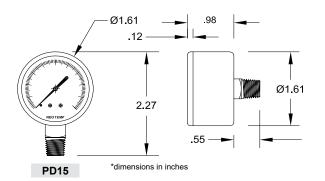
REOTEMP's Series PD offers a wide variety of economical gauges for applications where ambient or process corrosion are not of concern. It is suitable for non-vibrating applications.

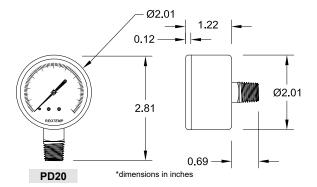


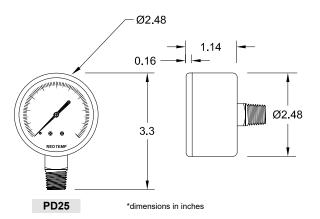


- · Standard Black Steel Case with Snap-In Lens
- · Copper Alloy Wetted Parts
- Cost Effective Design







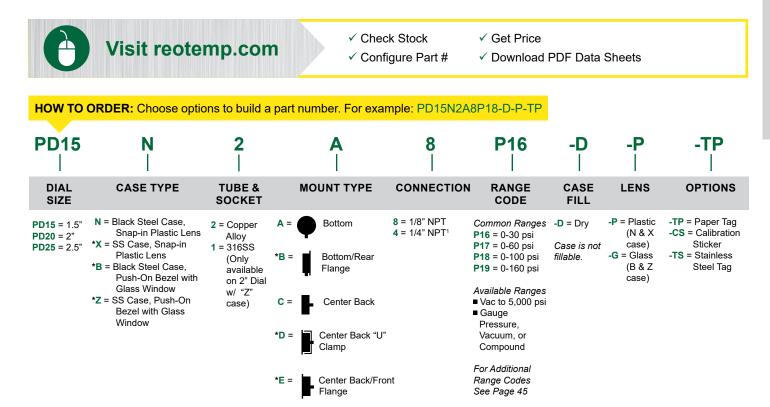


SPECIFICATIONS	
Accuracy	3 - 2 - 3%, ASME Grade B
Ambient Limits	-40°F/140°F
Process Limits	-40°F/140°F
Process Limits with Diaphragm Seal	Cannot Be Mounted to a Diaphragm Seal.
Wetted Materials	Tube: Copper Alloy Socket: Copper Alloy
Lens	Plastic Snap-In or Glass Push-On Bezel
Other Materials	Case: Black Painted Steel or Stainles Steel Ring: Snap-In Lens or Push-On Beze Dial: White Aluminum, Black Letters Case-to-socket: Screw Connection
Fillable	No
Restrictor Screw	No
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Weight	1.5" = 0.1 lbs 2" = 0.2 lbs 2.5" = 0.25 lbs

Series PD15/20/25



GENERAL PURPOSE GAUGE



*Non-standard configuration

¹Non-standard on PD15

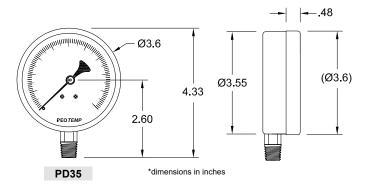
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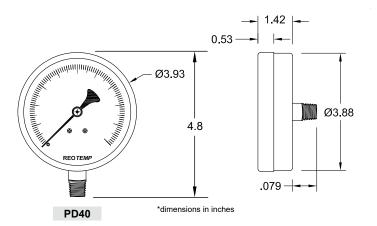


GENERAL PURPOSE GAUGE

REOTEMP's Series PD offers a wide variety of economical gauges for applications where ambient or process corrosion are not of concern. It is suitable for non-vibrating applications.









FEATURES / BENEFITS

- · Painted Black Steel Case
- Copper Alloy Wetted Parts
- Cost Effective Design



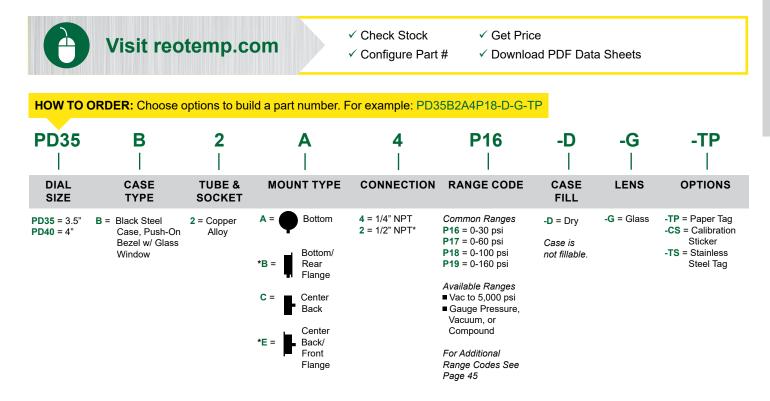
SPECIFICATI	ONS
Accuracy	3 - 2 - 3%, ASME Grade B
Ambient Limits	-40°F/140°F
Process Limits	-40°F/140°F
Process Limits with Diaphragm Seal	Cannot Be Mounted to a Diaphragm Seal.
Wetted Materials	Tube: Copper Alloy Socket: Copper Alloy
Lens	Glass
Other Materials	Case: Black Painted Steel Ring: Black Painted Steel Dial: White Aluminum, Black Letters Case-to-Socket: Screw Connection
Fillable	No
Restrictor Screw	No
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Weight	3.5" = 0.5 lbs 4" = 0.6 lbs

34

Series PD35/40



GENERAL PURPOSE GAUGE



*Non-standard configuration

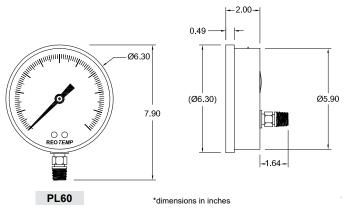


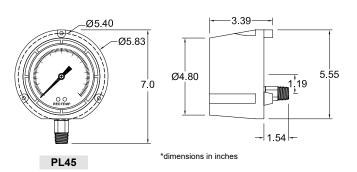
Series PL

INDUSTRIAL TEST GAUGE

REOTEMP's Series PL test gauge is designed for use in laboratories, testing or calibration facilities, or wherever accuracy and repeatability are of prime importance. Rugged, all-welded stainless steel construction makes this gauge suitable for almost any test application. Reading error due to parallax is eliminated by use of a knife-edge pointer and mirror dial.











Accuracy

Custom Logo

FEATURES / BENEFITS

- Stainless Steel Case & Bayonet Ring

- Anti-Parallax, Mirror Dial
- 10 Point NIST Traceable Calibration Certificate Included

Accuracy	0.25%, Grade 3A and 0.5% Grade 2A
Ambient Limits	-40°F/150°F
Process Limits	-40°F/150°F
Wetted Materials	Tube: 316SS Socket: 316SS
Lens	Tempered Safety Glass (Standard), Plastic, or Laminated Safety Glass
Other Materials	Case: 304SS Ring: 304SS, Twist-Off Bayonet Dial: Aluminum, Mirror Band Case-to-Socket: Screw Connection
Fillable	No
Restrictor Screw	Yes, Removable
Maximum Working Pressure	Stable = 100% Momentary = 110% of scale
Weight	2.2 lbs

Series PL



INDUSTRIAL TEST GAUGE

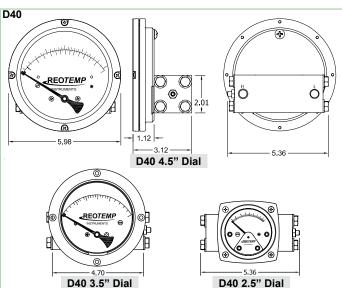
HOW TO	ORDER: Ch	oose optio	ns to bu	ild a part numbe	er. For exampl	e: PL60M1A4P01-D-	T-TS		
PL60	M 	1		A	4	P01	- D 	- T	-TS
DIAL SIZE	CASE TYPE	TUBE & SOCKET		MOUNT (CONNECTION	RANGE CODE	CASE FILL	LENS	OPTIONS
PL60 = 6"	M = 304SS Bayonet, 0.25% Accuracy R = 0.5% Accuracy	1 = 316SS	A =	Bottom/Rear Flange Lower Back Lower Back "U" Clamp Lower Back/Front Flange Lower Back/Rear Flange	4 = 1/4" NPT 2 = 1/2" NPT	Common Ranges P01 = -30 inHg-0 psi P03 = -30 inHg-0-30 psi P16 = 0-30 psi P18 = 0-100 psi P20 = 0-200 psi P21 = 0-300 psi P25 = 0-1,000 psi P34 = 0-5,000 psi Available Ranges ■ Vac to 6,000 psi ■ Gauge Pressure, Vacuum, or Compound For Additional Range Codes See Page 45	-D = Dry	-T = Tempered Safety Glass (std) -P = Plastic -S = Laminated Safety Glass	-TS = Stainless Steel Tag NOTE: 10pt. NIST traceable calibration certificate comes standard.
PL45 = 4.5"	P = Phenolic Case, 0.250 Accuracy	%	A = Q C = 1	Bottom Lower Back		Available Ranges for 4.5": Vacuum, Compound, and Pressure up to 1,000psi For Additional Range Codes See Page 45	-		

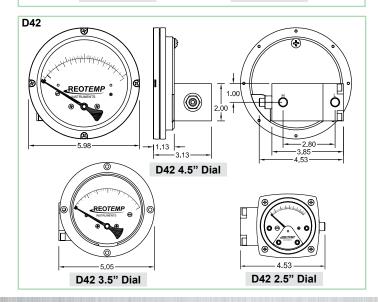


DIAPHRAGM TYPE DIFFERENTIAL GAUGE

REOTEMP Series D40/D42 differential pressure gauges are ideally suited for use on dissimilar fluids, wet gas or fluids with a high concentration of solids. Other applications include: use in Filter/Strainer Monitoring, Compressed Air, Hydraulic, Refrigerant, Pump Performance Testing, Heat Exchanger Pressure Drop Monitoring, Water Treatment Applications, Tank Level Monitoring Horizontal or Vertical, and Flow Monitoring & Balancing.











Fillable Diaphragm Seal Compatible

FEATURES / BENEFITS

- Total Separation of High and Low by a Convoluted Elastomer Diaphragm
- Liquid Fillable Case Available
- For Use with Diaphragm Seals†
- Weatherproof Rated to NEMA 4X/IP65
- · Working Pressure Up to 3,000 psi

SPECIFICATION	ONS
Accuracy	± 3 - 2 - 3%
Ambient Limits	-40°F/130°F
Process Limits	-40°F/200°F
Process Limits with Diaphragm Seal	-60°F/350°F (Direct Mount)* -110°F/750°F (Remote Mount or Cooling Tower)* *Exact limits depend on diaphragm seal and fill fluids.
Wetted Materials	Body: Aluminum, Brass, Monel, Aluminum-bronze, 316SS Internal Parts: 316SS, Monel Gaskets/Seals: Buna, Viton, Silicone, or Ethylene Propylene
Lens	Plastic (Standard) or Laminated Safet Glass
Other Materials	Case: Aluminum or Engineered Plastic Dial: White Aluminum, Black Letters
Fillable	Yes, 4.5" Aluminum Case Only
Maximum Working Pressure	3,000 psi (6,000 proof) Aluminum or SS Body, 1,500 psi (3,000 proof) Bras Body
Environmental Protection	NEMA 4X/IP65

†Diaphragm seals protect the gauge against corrosion, heat, and clogging from certain process fluids. Diaphragm seals will reduce accuracy.

PTC-0719

Series D40/42



T = 4-20mA output

8-28Vdc loop power

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DIAPHRAGM TYPE DIFFERENTIAL GAUGE



- ✓ Configure Part #
- ✓ Get Price
- ✓ Generate a Custom Engineering Drawing
- ✓ Download PDF Data Sheets

HOW TO ORDER: Choose options to build a part number. For example: D402PAB-B4XXX-PD5-M1

D40	2P	A	B	- B4	XX	X
SERIES	DIAL SIZE & CASE MATERIAL	BODY/ INTERNALS	DIAPHRAGM & GASKETS		SWITCH TYPE AND HOUSING	ELECTRICAL SPECIFICATION
D40 = For DP	2P = 2.5" Dial, Plastic	A = Aluminum/316SS	B = Buna-N	-B4 = 1/4" NPTF	XX = None	X = None
Ranges of 30-100 psid D42 = For DP	Case 4P = 4.5" Dial, Plastic Case 3A = 3.5" Dial Aluminum Case	S = 316SS/316SS B = Brass/316SS M = Monel/316SS N = Aluminum- bronze/316SS	V = Viton S = Silicone E = Ethylene Propylene	back -T4 = 1/4" NPTF top -L4 = 1/4" NPTF bottom -E4 = 1/4" NPTF end	A1 = Single reed switch, NEMA4X enclosure A2 = Dual reed switch, NEMA4X enclosure	A = SPDT, 3W, .25Amp B = SPST, 25W, .5Amp 230VAC/Vdc
Ranges of 20" inH ₂ Oc thru 25	Aluminum Caca	Wetted	Wetted	connection -E2 = 1/2" NPTF end adapters	D1 = Single reed switch, explosion proof enclosure* D2 = Dual reed switch, explosion proof	
psid					enclosure* E1 = Single reed switch, NEMA4X/ explosion proof enclosure** E2 = Dual reed switch NEMA4X/	

Transmitter Type and Housing:

TA = 4-20mA transmitter in NEMA4X enclosure

explosion proof enclosure**

TX = 4-20mA transmitter in explosion proof enclosure**

*Complete Assembly Rated Class 1, Div. 1, Groups C&D; Class II, Div. 1, Groups **Complete assembly rated class 1, Div. 2,

groups A, B, C, D; Class II, Div. 2, Groups F&G

Diaphragm Seal Suitability Guide

Differential Pressure Gauges are very sensitive and require diaphragm seals with high fluid displacement. If a diaphragm seal is required to isolate the process fluid from the pressure gauge, the following seal model types are available for the Series D40/42.

Total Gauge Span Diaphragm Seal Model <99"H₂0 100"H₂0 150"H₂0 10psi 20psi+ W7 S S Т High Т **T6** Displacement

	Assembly will function correctly with minimal accuracy degradation.
Т	Assembly will function correctly given stable temperature.
S	Assembly is highly sensitive to orientation and temperature variance. REOTEMP cannot guarantee a stated accuracy.
X	Assembly will not work. The diaphragm does not displace enough fill fluid to drive the pressure gauge.

Visit reotemp.com/configurators for easy seal configuration.

-PD5	-M1 OPTIONS
-PD5 = 0-5 psid	-M1 = 2" Pipe Mounting Kit
-PD10 = 0-10 psid	with Carbon Steel
-PD20 = 0-20 psid	Bracket
-PD100 = 0-100 psid	-M2 = 2" Pipe Mounting Kit
-ID25 = 0-25 inH ₂ Od	with Stainless Steel
-ID100 = 0-100	Bracket

inH₂Od

For Additional Range Codes See Page 46

-M3 = Wall Mounting Kit -SG = Laminated Safety Glass (4A Dial ONLY)

-MP = Max Pointer (Not Available with SG or LF)

-LF = Liquid fill (only with 4A dial. std. lens)

-TS = SS tag

-OX = Cleaned for oxygen service

-C3 = 3pt. Calibration Cert.

PTC-0719 (800) 648-7737 sales@reotemp.com reotemp.com



REO*TEMP*

Series D20

PISTON TYPE MECHANICAL DIFFERENTIAL PRESSURE GAUGE

REOTEMP Series D20 Piston Type Mechanical Differential Pressure Gauges are primarily designed for liquid applications. Differential pressure is sensed by the movement of a precisely ground floating piston/magnet in a precision bore against a calibrated spring. A rotary pointer magnet located close to the internal magnet follows the movement of the piston magnet and indicates differential pressure on the dial. Piston type differential pressure gauges exhibit a slight amount of bypass as the fluid crosses from the high to the low pressure port.

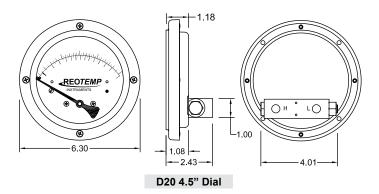




Fillable

FEATURES / BENEFITS

- Rugged, Compact, Cost Effective Design
- Weatherproof Rated to NEMA 4X/IP65
- Working Pressure Up to 6,000 psi
- Over-range Protection to Max Working Pressure
- Popular for Filters and Strainers
- ± 2% Full Scale Accuracy







SPECIFICATIONS ± 2% Full Scale **Accuracy Ambient Limits** -40°F/130°F -40°F/200°F **Process Limits Process Limits with** Series D20 cannot be mounted to a diaphragm seal. See series D40/42 **Diaphragm Seal** for gauges mountable to a diaphragm seal. **Wetted Materials** Body: Aluminum, 316SS Internal Parts: 316SS Gasket/Seals: Buna, Viton, Teflon, Ethylene Propylene, or Perfluoroelastomer Lens Plastic (Standard) or Laminated Safety **Other Materials** Case: Aluminum or Engineered Plastic Dial: White Aluminum, Black Letters **Fillable** Yes, Except for 3.5" Dial **Maximum Working** 3,000 psi - Aluminum Body 6,000 psi - 316SS Body **Pressure** NEMA 4X/IP65 **Environmental Protection**

40

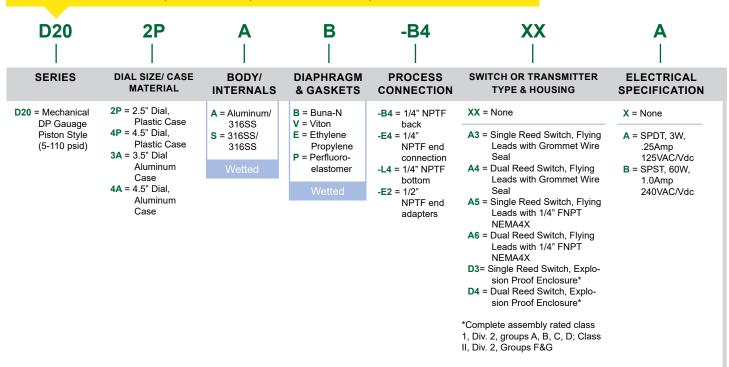


PISTON TYPE MECHANICAL DIFFERENTIAL PRESSURE GAUGE



- ✓ Configure Part #
- ✓ Get Price
- ✓ Generate a Custom Engineering Drawing
- ✓ Download PDF Data Sheets

HOW TO ORDER: Choose options to build a part number. For example: D202PAB-B4XXA-PD5-M1



-PD5 -M1 | PRESSURE OPTIONS RANGE

-PD5 = 0-5 psid **-PD10** = 0-10 psid

-PD20 = 0-20 psid -PD50 = 0-50 psid -PD100 = 0-100 psid

For Additional Range Codes See Page 46 -M1 = 2" Pipe Mounting Kit with Carbon Steel Bracket

-M2 = 2" Pipe Mounting Kit with Stainless Steel Bracket

-M3 = Wall Mounting Kit

-SG = Laminated Safety Glass (ONLY with 4A Dial)

-MP = Max Pointer (Not

Available with SG or LF)
-LF = Liquid fill (Not Available
with 3A Dial)

-TS = SS Tag

-OX = Cleaned for oxygen service

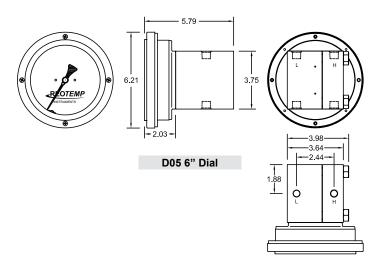


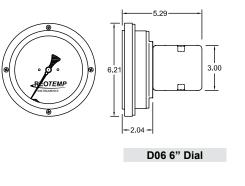
Series D05/06

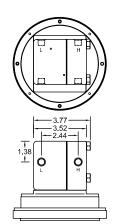
HIGH-ACCURACY INDUSTRIAL DIFFERENTIAL PRESSURE GAUGE

The REOTEMP Series D05/06 High Accuracy Bellows DP Gauge is a precise, easy-to-read, and rugged instrument built for the industrial markets. Available in a variety of wetted materials, this gauge is ideally suited for a variety of applications involving the differential pressure measurement of many process fluids.









FEATURES / BENEFITS

- High Accuracy ± 1% or .5% Full Scale
- Sensitive Bellows Measuring Element
- 270 Degree Dial Arc
- Differential Spans from 10" in H2Od through 30 psid

SPECIFICATIONS								
Accuracy	± 1% or .5% full scale							
Ambient Limits	-40°F/130°F							
Process Limits	-40°F/200°F							
Process Limits with Diaphragm Seal	Series D05/06 cannot be mounted to a diaphragm seal. See series D40/42 for gauges mountable to a diaphragm seal.							
Wetted Materials	Body: Aluminum, 316SS Internal Parts: 316SS Gasket/Seals: Buna, Viton, Teflon, Ethylene Propylene, or Silicone							
Lens	Plastic (Standard) or Laminated Safety Glass							
Other Materials	Dial Case: Engineered Plastic Dial: White Aluminum, Black Letters							
Fillable	Yes							
Maximum Working Pressure	3,000 psi - Aluminum Body 6,000 psi - 316SS Body							
Environmental	NEMA 4X/IP65							

Protection

Series D05/D06

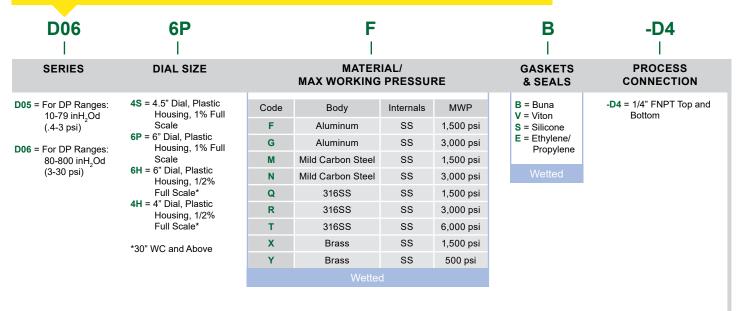


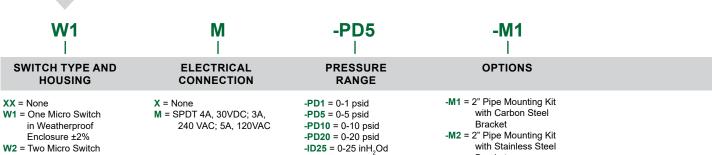
HIGH-ACCURACY INDUSTRIAL DIFFERENTIAL PRESSURE GAUGE



- ✓ Configure Part #
- ✓ Get Price
- ✓ Generate a Custom Engineering Drawing
- ✓ Download PDF Data Sheets

HOW TO ORDER: Choose options to build a part number. For example: D066PFB-D4W1M-PD5-M1





in Weatherproof Enclosure ±2%

-ID100 = 0-100 inH₂Od $-ID300 = 0-300 \text{ inH}_{2}^{2}Od$

For Additional Range Codes See Page 46

Bracket

-M3 = Wall Mounting Kit -SG = Laminated Safety

Glass

-TS = SS tag

-OX = Cleaned for oxygen service



Series D09

HIGH-ACCURACY INDUSTRIAL DIFFERENTIAL PRESSURE GAUGE

The REOTEMP Series D09, Bourdon Tube Style Differential Pressure Gauge is ideally suited for a broad range of applications requiring high accuracy and/or high differential pressure range. The large 6" dial with complete 270 degree dial arc makes the D09 the easiest to read differential pressure gauge.



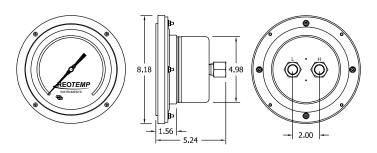




Fillable

FEATURES / BENEFITS

- High Accuracy ±1% or .5% Full Scale
- Sensitive Bourdon Tube Construction
- 270 Degree Dial Arc
- Differential Span Up to 6,000 psid



D09 6" Dial, Back Connected

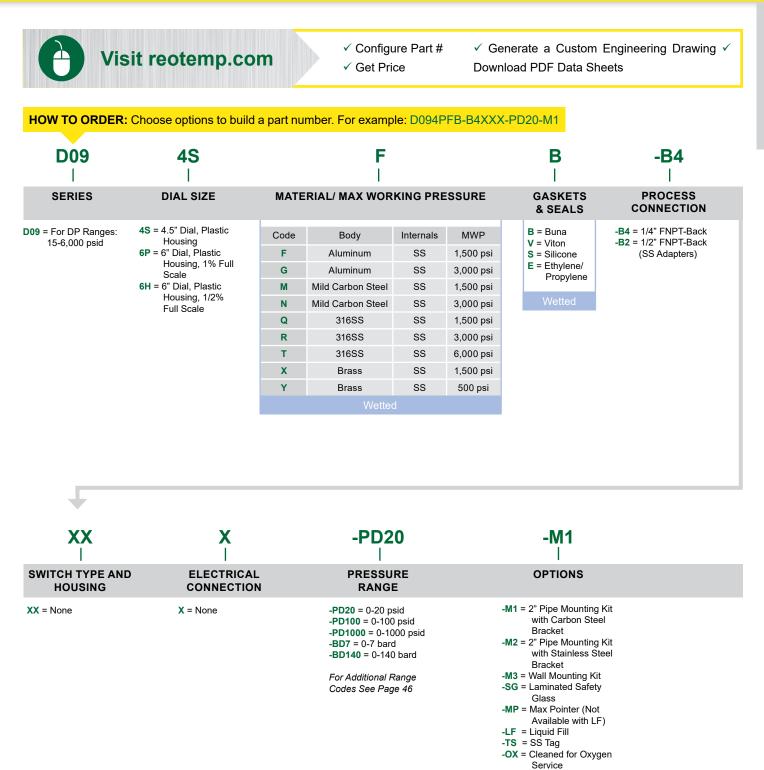
SPECIFICATI	ONS
Accuracy	± 1% or .5% full scale
Ambient Limits	-40°F/130°F
Process Limits	-40°F/200°F
Process Limits with Diaphragm Seal	Series D09 cannot be mounted to a diaphragm seal. See series D40/42 for gauges mountable to a diaphragm seal.
Wetted Materials	Body: Aluminum, 316SS, Brass, Carbon Steel Internal Parts: 316SS, Copper Alloy Gasket/Seals: Buna, Viton, Teflon, Ethylene Propylene, or Silicone
Lens	Plastic (Standard) or Laminated Safety Glass
Other Materials	Dial Case: Engineered Plastic Dial: White Aluminum, Black Letters
Fillable	Yes
Maximum Working Pressure	3,000 psi - Aluminum Body 6,000 psi - 316SS Body
Environmental Protection	NEMA 4X/IP65

PTC-0719

Series D09



HIGH-ACCURACY INDUSTRIAL DIFFERENTIAL PRESSURE GAUGE





Master Range Code Sheet

PRESSURE GAUGE RANGES AND CODES

	VACUUM/COMPOUND RANGES												
psi Dual Scale & psi & Metric										Sin	gle Scale-Met	ric	
61	"Hg/0/psi		psi & bar		psi & kg/cm² psi & kPa		psi & kPa		bar		kg/cm²		kPa
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
P01	-30"Hg/0	D01	"Hg & -1/0 bar	G01	"Hg & -1/0 kg/cm ²	L01	"Hg & -100/0 kPa	B00	-1/0 bar	K00	-1/0 kg/cm ²	A00	-100/0 kPa
P02	-30/0/15	D02	psi & -1/0/1	G02	psi & -1/0/1	L02	psi & -100/0/100	B01	-1/0/1	K01	-1/0/1	A01	-100/0/100
P03	-30/0/30	D03	psi & -1/0/2	G03	psi & -1/0/2	L03	psi & -100/0/200	B02	-1/0/2	K02	-1/0/2	A02	-100/0/200
P04	-30/0/60	D04	psi & -1/0/4	G04	psi & -1/0/4	L04	psi & -100/0/400	B04	-1/0/4	K04	-1/0/4	A04	-100/0/400
P05	-30/0/100	D05	psi & -1/0/7	G05	psi & -1/0/7	L05	psi & -100/0/700	B07	-1/0/7	K07	-1/0/7	A07	-100/0/700
P06	-30/0/160	D06	psi & -1/0/11	G06	psi & -1/0/11	L06	psi & -100/0/1,100	B011	-1/0/11	K011	-1/0/11	A011	-100/0/1,100
P07	-30/0/200	D07	psi & -1/0/14	G07	psi & -1/0/14	L07	psi & -100/0/1,400	B014	-1/0/14	K014	-1/0/14	A014	-100/0/1,400
P08	-30/0/300	D08	psi & -1/0/20	G08	psi & -1/0/20	L08	psi & -100/0/2,000	B020	-1/0/20	K020	-1/0/20	A020	-100/0/2,000

	PRESSURE RANGES													
	psi	Dual Scale & psi & Metric						Single Scale-Metric						
	psi		psi & bar	psi & kg/cm²			psi & kPa		bar	kg/cm²			kPa	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	
P14	0-10 psi	D14	psi & .7 bar	G14	psi & .7 kg/cm ²	L14	psi & 70 kPa							
P15	0-15	D15	psi & 0-1	G15	psi & 0-1	L15	psi & 0-100	B1	0-1 bar	K1	0-1 kg/cm ²	A1	0-100 kPa	
P16	0-30	D16	psi & 0-2	G16	psi & 0-2	L16	psi & 0-200	B2	0-2	K2	0-2	A2	0-200	
P17	0-60	D17	psi & 0-4	G17	psi & 0-4	L17	psi & 0-400	B4	0-4	K4	0-4	A4	0-400	
P18	0-100	D18	psi & 0-7	G18	psi & 0-7	L18	psi & 0-700	B7	0-7	K7	0-7	A7	0-700	
P19	0-160	D19	psi & 0-11	G19	psi & 0-11	L19	psi & 0-1,100	B11	0-11	K11	0-11	A11	0-1,100	
P20	0-200	D20	psi & 0-14	G20	psi & 0-14	L20	psi & 0-1,400	B14	0-14	K14	0-14	A14	0-1,400	
P21	0-300	D21	psi & 0-20	G21	psi & 0-20	L21	psi & 0-2,000	B20	0-20	K20	0-20	A20	0-2,000	
P22	0-400	D22	psi & 0-28	G22	psi & 0-28	L22	psi & 0-2,800	B28	0-28	K28	0-28	A28	0-2,800	
P23	0-600	D23	psi & 0-40	G23	psi & 0-40	L23	psi & 0-4,000	B40	0-40	K40	0-40	A40	0-4,000	
P24	0-800	D24	psi & 0-55	G24	psi & 0-55	L24	psi & 0-5,500	B55	0-55	K55	0-55	A55	0-5,500	
P25	0-1,000	D25	psi & 0-70	G25	psi & 0-70	L25	psi & 0-7,000	B70	0-70	K70	0-70	A70	0-7,000	
P30	0-1,500	D30	psi & 0-100	G30	psi & 0-100	L30	psi & 0-10,000	B100	0-100	K100	0-100	A100	0-10,000	
P31	0-2,000	D31	psi & 0-140	G31	psi & 0-140	L31	psi & 0-14,000	B140	0-140	K140	0-140	A140	0-14,000	
P32	0-3,000	D32	psi & 0-200	G32	psi & 0-200	L32	psi & 0-20,000	B200	0-200	K200	0-200	A200	0-20,000	
P33	0-4,000	D33	psi & 0-280	G33	psi & 0-280	L33	psi & 0-28,000	B280	0-280	K280	0-280	A280	0-28,000	
P34	0-5,000	D34	psi & 0-350	G34	psi & 0-350	L34	psi & 0-35,000	B350	0-350	K350	0-350	A350	0-35,000	
P35	0-6,000	D35	psi & 0-400	G35	psi & 0-400	L35	psi & 0-40,000	B400	0-400	K400	0-400	A400	0-40,000	
P36	0-8,000	D36	psi & 0-550	G36	psi & 0-550	L36	psi & 0-55,000	B550	0-550	K550	0-550	A550	0-55,000	
P37	0-10,000	D37	psi & 0-700	G37	psi & 0-700	L37	psi & 0-70,000	B700	0-700	K700	0-700	A700	0-70,000	
P38	0-15,000	D38	psi & 0-1,000	G38	psi & 0-1,000	L38	psi & 0-100,000	B1K	0-1,000	K1K	0-1,000	A1K	0-100,000	
P39	0-20,000	D39	psi & 0-1,400	G39	psi & 0-1,400	L39	psi & 0-140,000							
P40	0-30,000	D40	psi & 0-2,000	G40	psi & 0-2,000	L40	psi & 0-200,000							
P41	0-40,000	D41	psi & 0-2,800	G41	psi & 0-2,800	L41	psi & 0-280,000							
P42	0-50,000	D42	psi & 0-3,500	G42	psi & 0-3,500	L42	psi & 0-350,000							



Don't See The Range You Need? REOTEMP has thousands of specialty dial ranges available and will work with you to create a custom range, just contact REOTEMP customer service.

Master Range Code Sheet



PRESSURE GAUGE RANGES AND CODES

SPECIAL RANGE TYPES											
	Receiver Ra	inges		Refrigerant Ranges		Tank Level Ranges					
Code	Element	Dial Range	Code	Dial Range	Refrigerant	Code	Range				
P60	3-15 psi	0-100%	N06	-30inHg to 160 psi	Ammonia	F14	0-24ft H ₂ O				
P61	3-15 psi	0-10 sq rt	R06	-30inHg to 160 psi	R134A	F15	0-30ft H ₂ O				
P62	3-15 psi	0-100% & 0-10 sq.rt.	R06A	-30inHg to 160 psi	R22	F15C	0-40ft H ₂ O				
			R06C	-30inHg to 160 psi	R404A	F16	0-60ft H ₂ O				
			N07	-30inHg to 200 psi	Ammonia	F165	0-100ft H ₂ O				
			N08	-30inHg to 300 psi	Ammonia						

LOW PRESSURE RANGES (PC SERIES ONLY)

			,		Low Pressure Ranges						
in	H ₂ O	02	z/in²		inH ₂ O & oz/in ²		mbar		psi		
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range		
P50	0-10 inH ₂ O	Z50	0-6 oz/in ²	Q50Z	0-10 inH ₂ O & 0-6 oz/in ²						
P51	0-15	Z51	0-8			M51	0-40 mbar				
P49	0-20	Z49	0-10	Q49C	0-20 & 0-12						
P515	0-25	Z52E	0-15								
P52	0-30			Q52N	0-30 & 0-18	M521	0-70	152	0-1 psi		
P525	0-40	Z52	0-20	Q525W	0-40 & 0-24	M525	0-100				
P53	0-60	Z53	0-30	Q53	0-60 & 0-35	M53F	0-150	153	0-2		
P54	0-100	Z54	0-60	Q54B	0-100 & 0-60	M54	0-250	154	0-3		
P55	0-160					M55	0-400	155	0-5		
P56	0-200	Z56	0-100	Q56C	0-200 & 0-115	M56	0-500	156	0-7		
	Vacuum Ranges										
P88	-10-0 inH ₂ O	Z88	-6-0 oz/in ²	Q88	-10/0 inH ₂ O & -6/0 oz/in ²						
P90	-30-0	Z90	-20-0	Q90	-30/0 & -18/0	M905	-100-0 mbar	190	-1-0 psi		
P91	-60-0	Z91	-30-0	Q91	-60/0 & -35/0	M94	-200-0	I91	-2-0		
P92	-100-0	Z92	-60-0	Q92	-100/0 & -60/0	M95	-400-0				
					Compound Ranges						
P7A	-5/0/5 inH ₂ O	Z7A	-3/0/3 oz/in ²			M71	-20/0/20 mbar				
P70	-10/0/10			Q70C	-10/0/10 inH ₂ O & -6/0/6 oz/in ²	M72E	-30/0/30				
P71	-15/0/15					M72	-40/0/40				
P72	-20/0/20	Z72	-10/0/10	Q72C	-20/0/20 & -12/0/12			173	-1-0-1 psi		
P73	-30/0/30			Q73C	-30/0/30 & -18/0/18	M735	-100/0/100	174	-2-0-2		
P74	-60/0/60	Z745	-30/0/30					I55U	-3/0/3		
P75	-100/0/100			Q75B	-100/0/100 & -60/0/60			P14C	-5/0/5		

DIFFERENTIAL PRESSURE RANGES (DP GAUGES ONLY)

psid		inH₂Od		ba	rd	mbard		kPad	
Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
PD1	0-1 psid	ID10	0-10 inH ₂ Od	BD1	0-1 bard	MD40	0-40 mbard	AD2.5	0-2.5 kPad
PD3	0-3	ID20	0-20	BD1.6	0-1.6	MD60	0-60	AD6	0-6
PD5	0-5	ID30	0-30	BD2.5	0-2.5	MD100	0-100	AD10	0-10
PD10	0-10	ID50	0-50	BD4	0-4	MD160	0-160	AD25	0-25
PD20	0-20	ID100	0-100	BD6	0-6	MD250	0-250	AD40	0-40
PD50	0-50	ID150	0-150	BD7	0-7	MD400	0-400	AD100	0-100
PD100	0-100	ID200	0-200	BD11	0-11	MD600	0-600	AD250	0-250
PD200	0-200	ID400	0-400	BD55	0-55	MD1000	0-1000	AD700	0-700
PD6000	0-6000			BD400	0-400				

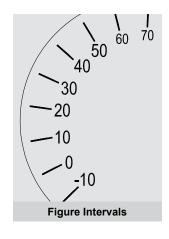


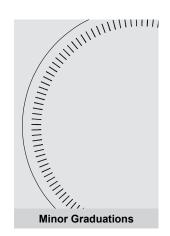
Master Range Code Sheet

STANDARD DIAL LAYOUTS

	PD/PG	/PM15	PD/PG	/PM20	PD/PG	/PM25	PG/F	PM40	PR	25	PR	35	PR	40	PR	60	PT	Г45
Range (psi)	Figure	Minor	Figure	Minor	Figure	Minor	Figure	Minor	Figure	Minor	Figure	Minor	Figure	Minor	Figure	Minor	Figure	Minor
10									1	0.1								
15	3	0.5	3	0.2	3	0.2	3	0.2	1	0.25	3	0.2	3	0.2	3	0.2	3	0.2
30	5	0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	0.2	5	0.2	5	0.2
60	10	1	10	1	10	1	10	1	10	1	10	1	5	0.5	5	0.5	5	0.5
100	10	2	20	2	10	2	10	1	10	1	20	2	10	1	10	1	10	1
160	20	2	20	2	20	2	20	2	20	2	20	2.5	20	1	20	1	20	1
200	50	5	50	5	50	5	20	2	20	2	50	5	20	2	20	2	20	2
300	50	5	50	5	50	5	50	5	50	5	50	5	50	2	50	2	50	2
400	100	10	20	2	100	10	50	5	50	5	100	10	50	5	50	5	50	5
600	100	10	100	10	100	10	100	10	100	10	100	10	50	5	50	5	50	5
800	200	20	100	10	200	20	100	10	100	10	100	10	100	10	100	10	100	10
1000	200	20	200	25	100	20	100	10	100	10	200	20	100	10	100	10	100	10
1500	300	20	300	20	300	20	300	20	300	25	300	20	300	20	250	20	300	20
2000	500	50	500	50	500	50			200	20	500	50	200	20	200	20	200	20
3000	500	50	500	50	500	50	500	50	500	50	500	50	500	20	500	20	500	20
4000			1000	100	1000	100			1000	100			500	50	500	50	500	50
5000		i	1000	100	1000	100	500	50	500	100	1000	100	500	50	500	50	500	50
6000		:	1000	100	1000	100	1000	100	1000	100	1000	100	1000	50	1000	50	1000	50
8000		:	1000	100					1000	100			1000	100	1000	100	1000	100
10000		:							2000	200	2000	200	1000	100	1000	100	1000	100
15000		:		:	į į				3000	200			3000	200	2500	200	3000	200
20000		<u>!</u>		!									2000	200	2000	200	2000	200
		-																
30 - 0 "Hg	5	0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	0.2	5	0.2	5	0.5
30 - 0 - 15	10/5	1/.5	10/5	5/.5	10/5	1/.5	10/5	1/.5	10/5	1/.5	10/5	1/.5	10/5	1/.5	10/5	1/.5	10/5	1/.5
30 - 0 - 30	10	2/1	10	2/1	10	2/1	10/5	1/.5	10	2/1	10/5	1/.5	10/5	1/.5	10/5	1/.5	10/5	1/.5
30 - 0 - 60	30/10	2/2	30/20	2/2	10	2	10	2/2	10	2	10	2/1	10	2/1	10	2/1	10	2/1
30 - 0 - 100					10/20	.5/2			30/20	5/2	30/20	5/2	30/20	5/2	30/20	5/2	30/10	2/1
30 - 0 - 160					30/20	5/2			30/20	5/2	30/20	5/2	30/20	5/2	30/20	5/2	30/20	5/2
30 - 0 - 200					30/20	5			30/50	5	30/20	5	30/20	5/2	30/20	5/2	30/20	5/2
30 - 0 - 300					30/50	10/5			30/50	10	30/50	5	30/50	5/5	30/50	5	30/50	5/5

Note: Dial layouts are subject to change at any time, please confirm with REOTEMP if a specific dial layout is requested. Hi-Vis™ and custom dials have varying figure and minor graduations. Please contact REOTEMP for dial graduation requirements that differ from REOTEMP standard.





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Customization



PRESSURE GAUGE DIAL OPTIONS



- ✓ In-depth Videos on our Customization Options
- ✓ Product Demonstration Videos



REOTEMP's Hi-Vis dial increases the visibility of dial gauges in low-light environments and at a distance. Hi-Vis dials are often used in areas where gauge readings are paramount to safety of the process. They can also be used to differentiate between two different process lines within a facility.

-HV Hi-Vis™ High Visibility Dial Availability PR, PT, PG-S and PC

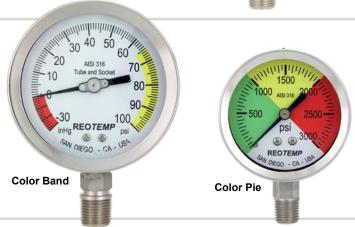


COLOR BANDS & COLOR PIES

Color bands and pies highlight a specific range on the gauge so that it is immediately apparent if the process falls within a critical pressure range.

- -CB Color Band (Specify Colors and Ranges)
- Color Pie (Specify Colors and Ranges)

Availability PR, PT, PG, PC and DP Gauges



CUSTOM LOGO DIAL

Pressure gauge dials offer a unique opportunity to communicate critical information, highlight installation specifications, or promote an OEM or end-user brand.

Custom Logo Dial

Availability PR, PT, PG, PC and DP Gauges, Additional Models Available as Factory Order

DIAL MARKING

Add text, a serial number, tag number, equipment class, or other text to the gauge dial face.

-DM Dial Marking

Availability PR, PT, PG, PC and DP Gauges, Additional Models Available as Factory Order



sales@reotemp.com



Customization

PRESSURE GAUGE OPTIONS



Case Fill Ambient Temperature Limits								
-G	Glycerin USP	40°F to 140°F						
-W	Glycerin/Water (65/35)	-40°F to 140°F						
-S	Silicone (1000cst)	-50°F to 150°F						
-T	Teflon Coated Movement	-40°F to 150°F						

POINTER 20 **REOTEMP** Min/Max Pointer with Fixed Red Set Hand Adjustment -MP Min/Max Pointer with Fixed Adjustment Screw -MQ Min/Max Pointer with Tamper-proof Cap and Key Red Set Hand, Manual Adjustment, Not a Drag -RH Pointer (PT45P Case Only) -RP Red Pointer (STD with Hi-Vis™ Dial) Availability PR25, PR40, PR60, PT45P, PG25, & PG40S

ELECTRICAL SWITCH CONTROLS

The electrical contacts option adds a convenient and durable switch option to the mechanical dial pressure gauge. The set pointer can be easily adjusted using a key on the outside of the dial. The pressure gauge pointer drags the switching contacts to either an open or closed position, based on how the user adjusts the contacts.

-EC Electrical Contacts

Availability PR40 and PT45P (Case not liquid fillable with contacts)



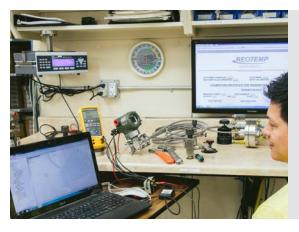
Electrical Contacts

Recommended Contact Loads								
Voltage	Resis	stive	Inductive					
	DC mA	AC mA	AC mA					
220	40	45	25					
110	80	90	45					
48	120	170	70					
24	200	350	100					
	1 1 105	01/ 004/						

Maximum load at 250V = 0.6A, for larger loads or to reverse action of switches, use of a relay is recommended.

CALIBRATION OPTIONS

- All gauge testing and calibrations are performed using NIST-traceable reference equipment.
- ✓ A point certificate (-C3, -C5, etc.) comes with a sticker on the case or lens with a unique test number and a calibration report with logged points.
- Upgraded accuracy (-R1, -R2, -R5) includes a notation on the dial and a calibration sticker, but no logged points.
- ✓ A calibration sticker (-CS) includes a sticker on the case or lens with a unique test number, but no logged points.





All REOTEMP pressure gauges are designed, manufactured, and calibrated to ASME B40. All calibration reference equipment is NIST-traceable.

Customization



PRESSURE GAUGE OPTIONS

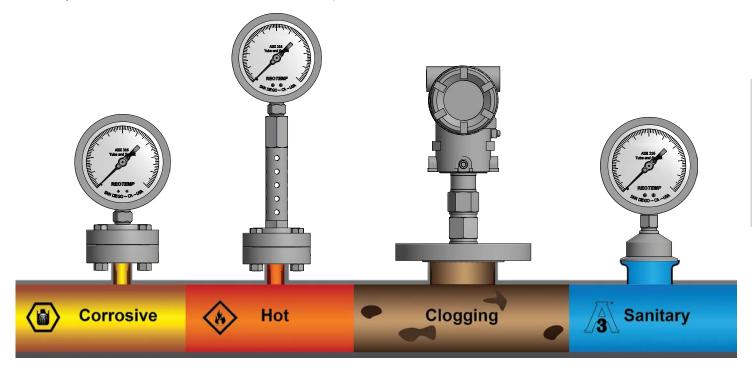
		ПЄ		y Indust uges	ııdı	Process Gauges		Stainless Steel Case Industrial Gauges		Commercial Gauges		Low Pressure Capsule Gauges		Test Gauges			
Part #	Description	PR25	PR35	PR40	PR60	PT45P	PT45T	PI45	PM	PG**C	PG**S	PD15/20/25	PD35/40	PC25N	PC25S	PC40/45/60	PL60/4
							CASE F	ILL OP	TIONS								
-G	Glycerin Filled Case	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A
-W	Glycerin Water Filled Case (65/35)	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A
-S	Silicone Filled Case	✓	✓	✓	✓	√	√	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
-T	Teflon-coated Movement (No case fill)	√	√	✓	√	√	√	√	N/A	N/A	N/A	N/A	N/A	N/A	√	✓	√
-1	Inert Case Fill	✓	✓	√	✓	✓	√ LENG	N/A OPTIO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-Р	Plastic Lens	STD	√	√	√	✓	LEN3	STD	STD	STD	√	✓	MQ	✓	✓	✓	√
-Т	Tempered Safety Glass Lens	√	STD	STD	STD	STD	STD	N/A	N/A	N/A	STD	N/A	N/A	N/A	STD	STD	STD
s	Laminated Safety Glass Lens	·	√	√	✓	√	✓	N/A	N/A	N/A	√	N/A	N/A	N/A	√	✓	√
-G	Plain Glass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MQ	MQ	N/A	MQ	STD	N/A	N/A	N/A	N/A
							POINT	ER OPT	IONS								
-RP	Red Pointer	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	✓	N/A	N/A	N/A	✓	✓	✓
-MP	Min/Max Pointer (Drag Hand)†	✓	N/A	✓	✓	✓	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
-MQ	Min/Max Pointer (Tamper-proof)†	✓	N/A	✓	✓	✓	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
-RH	Red Set Hand (Manual Adjustment)	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-EC	Electrical Contacts	N/A	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
							DIAL										
-CL	Custom Logo Dial	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓	MQ	MQ	MQ	✓	✓	✓
-HV	Hi-Vis Dial	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	✓	N/A	N/A	N/A	✓	✓	N/A
-CB	Color Band	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓	MQ	MQ	MQ	✓	✓	N/A
-CP	Color Pie	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓	MQ	MQ	MQ	✓	✓	N/A
-DM	Dial Marking	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓	MQ	MQ	√	✓	✓	✓
-LP	Removable Lens Protector	N/A	N/A	N/A	N/A	✓	√ CALIBRA	TION O	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-R1	Upgrade to 1% FS Accuracy	✓	√	STD	STD	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A
-R2	Upgrade to 0.5% FS Accuracy	N/A	N/A	✓	✓	STD	STD	STD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-R5	Upgrade to 1.5% FS Accuracy	✓	√	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	√	N/A
-C1	1pt. NIST Calibration Cert	✓	✓	1	√	1	√	1	✓	✓	✓	√	1	✓	√	✓	N/A
-C3	3pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A
-C5	5pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	√	✓	N/A
-сх	10pt. NIST Calibration Cert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	STD
-cs	Calibration Sticker (No logged pts.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A
							TAG	OPTIO	N								
-TS	Stainless Steel Tag (1-10 Characters)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-TM	Stainless Steel Tag (11-80 characters)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-TP	Paper Tag	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
							CERTIFICA										
-CM	General Material Conformance	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
-NC	Certificate of NACE Compliance Positive Material Identification	√	√	✓	·	✓	✓	√	N/A	N/A	N/A	N/A	N/A	N/A	✓	√	✓
-PM	Certificate (PMI)	√	√	√	√	√	✓	✓	✓	√	✓	√	✓	✓	√	√	~
-HT	Hydrostatic Test per ASME B31.3 (5 min)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-LC	Argon Leak Check Certificate	√	✓	√	√	✓	✓	√	√ 	✓	✓	✓	✓	√	✓	✓	✓
	Degraped Wined Clean of Oile						CLEANI	NG OP	TIONS								
-DG	Degreased - Wiped Clean of Oils, Shipped in Sealed Bag	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	✓	N/A	N/A	✓	✓	✓	✓
-ох	Cleaned for Oxygen Service per ASME B40.1	✓	✓	✓	✓	✓	✓	✓	MQ	MQ	✓	MQ	MQ	✓	✓	✓	✓
-OY	Cleaned for Oxygen Service per MIL-STD-1330D	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	✓	N/A	N/A	✓	✓	~	✓
								R OPTI									
-NR	No Restrictor Screw	✓	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A
-FI	Dry Gauge Shipped with Fill Plug Installed	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			:41- 41	madal				NI/A	In	dianton t	ha antia		. . 4 . 4 .	املممسماما			
✓	Indicates that the option is avail	lable wi	ith the r	nouei.				N/A	. 111	uicates t	ne optio	n is not availa	adie with tr	iis modei.			

†This option is only available with a plastic lens.





Diaphragm Seals are used in applications where the pressure sensor requires isolation from the process media. These applications may be corrosive, high temp, clogging, or require a sanitary fluid to remain captured in the piping or vessel. Rather than the process fluid interfacing with the pressure sensor, the pressure is exerted onto the flexible diaphragm and transmitted hydraulically to the instrument through the fill fluid. When properly mounted and filled a diaphragm seal assembly will have minimal effect on the instrument's performance.



APPLICATION CONSIDERATIONS

REOTEMP Diaphragm Seal Assemblies are carefully designed, built, and tested to maximize performance, increase instrument lifespan, and assure operator safety. The following should be considered when specifying a diaphragm seal:

1. Instrument Considerations

- Is there sufficient displacement to drive through its full range?
- Is the diaphragm sensitive enough for the measuring range and accuracy grade of the instrument?

2. Diaphragm Seal Mounting

- How will the diaphragm seal mount to the process?
 Threaded? Flanged? Clamped?
- How will the instrument mount to the diaphragm seal?
 Threaded? Welded?
- Will the instrument be mounted directly to the seal or with capillary?

3. Process Characteristics

- What are the pressure and temperature limits?
- · Are there issues with clogging or high viscosity?
- Is there severe shock and pulsation?
- Is the process fluid compatible with the wetted material and gasket?

4. Ambient Characteristics

- Are there extreme or fluctuating ambient temperatures?
- Is the outside environment corrosive?

5. Vacuum Considerations

• Will the assembly be operating in deep vacuum (< 5psia)? If yes, contact the factory with process specifications.

Questions? If you require application assistance, please contact REOTEMP customer service or your local REOTEMP distributor.



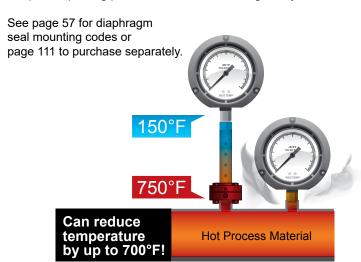
REOTEMP SEAL FEATURES



- ✓ In-depth Videos on our Customization Options
- ✓ Product Demonstration Videos

COOLING TOWERS

High process temperatures are damaging to pressure instrument performance and could pose an imminent safety risk. REOTEMP cooling towers provide the best option for extending instrument lifespan, improving performance and minimizing safety risk.

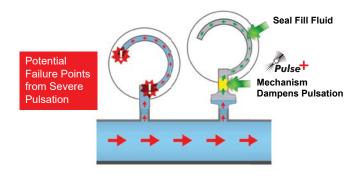


PULSATION PROTECTION



Process media pulsation is one of the most common causes of pressure gauge failure. REOTEMP's proprietary diaphragm seal feature, Pulse Plus™ dramatically reduces the effects of

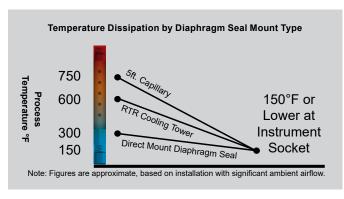
pulsation on mechanical pressure instruments.



Specify with option code **-PP** on most diaphragm seal models when a seal is being mounted to a REOTEMP pressure gauge.

PRESSURE AND TEMPERATURE REFERENCE TABLES

Threaded Diaphragm Seal Temperature Rating									
Process Temp	MWP 1500	MWP 2500	MWP 5000	MWP 10000					
°F	psi	psi	psi	psi					
-40 to 100	1500	2500	5000	10000					
200	1290	2150	4300	8600					
300	1175	1950	3900	7800					
400	1090	1800	3600	7200					
500	1000	1650	3300	6600					
650	910	1500	3000	6000					



	ANSI B16.5 Flange Rating (Temperature/Pressure)									
	Process Temp	Class 150	Class 300	Class 600	Class 1500					
	°F	psi	psi	psi	psi					
	-40 to 100	275	720	1440	3600					
	200	230	600	1200	3000					
24000	300	205	540	1080	2700					
316SS	400	190	495	995	2485					
	500	170	465	930	2330					
	650	125	430	860	2150					
	-40 to 100	285	740	1480	3705					
	200	260	675	1350	3375					
Carbon Steel	300	230	655	1315	3280					
Carbon Steel	400	200	635	1270	3170					
	500	170	600	1200	2995					
	650	125	535	1075	2685					



COMMON CONFIGURATIONS

The pressure instrument and diaphragm seal assemblies shown below are examples of completely filled and tested assemblies and their corresponding part numbers.



Instrument

PT45P1A2P20-G-T-HV (pg.7)

Seal

W51522SSS-TKDTD-AS (pg.59)

Application

The most common gauge seal assembly for threaded connections. For use with corrosive, clogging or moderately hot process media.



Instruments

PR35S1A4D25-D-T (pg.3) TG1P25-1A4A00 (pg.101)

Seal

DSTC15SS4-TRM-AG (pg.79)

Application

For use in a sanitary or clean-in-place application where the user would like both a mechanical dial pressure gauge and electronic output on the same connection port.



Instrument

PC40S1A4M250-D-T (pg.13)

Seal

W7254R21SSS-TDTD-AS (pg.69)

Application

Low pressure gauge with a high accuracy diaphragm seal. For use with corrosive gas or liquid on a flanged connection.



Instrument

Customer Supplied In-Line Smart Pressure Transmitter

Seal

MS8QWM2XS-RTR-BH-R1 (pg.77)

Application

For use in high temperature service where a diaphragm seal is required to protect the pressure transmitter from process temperature as high as 750°F.





Instrument

Customer Supplied dP Transmitter

Seal

W9FFWR31S-W20-AS-RR (pg.71)

Application

For use monitoring tank level, measuring flow across an orifice plate, measuring pressure drop across a valve or filter, and other dP application. Flush diaphragm seals are most commonly used with process media that clogs or coagulates in limited flow areas and dead legs.



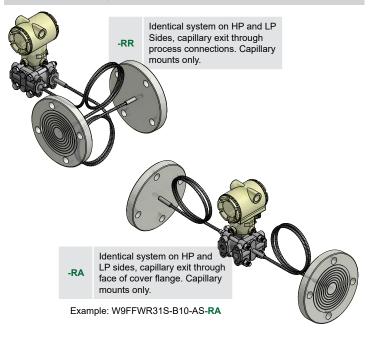
SMART TRANSMITTER ATTACHMENT



DIFFERENTIAL PRESSURE ASSEMBLY

Balanced System A complete assembly with one part number that includes two diaphragm seals, two capillaries, two fills, and one complete assembly calibration certificate.

Unbalanced DP System Where seal, mount, capillary, or fill is not identical. A complete assembly includes one diaphragm seal on the HP side AND one diaphragm seal on the LP side.





-RH Mount via Process Connections Side High Pressure



-RB	Mount via Face of Cover Flange
Side	High Pressure



-RL Mount via Process Connections
Side Low Pressure



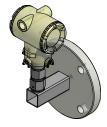
-RC	Mount via Face of Cover Flange
Side	Low Pressure

GAUGE PRESSURE ASSEMBLY

In Line Pressure Transmitter



Mount to In-Line Gauge
Pressure Transmitter.
Direct or remote mount.



Horizontal Mount (Tank Mount) to In-Line Gauge Pressure Transmitter. Direct mount only. **Traditional Mount for Gauge Pressure** Seal mount on one side only, other side is vented.

-R2



Instrument mount through process connections, HP Side. Use "R3" if mounting to LP side



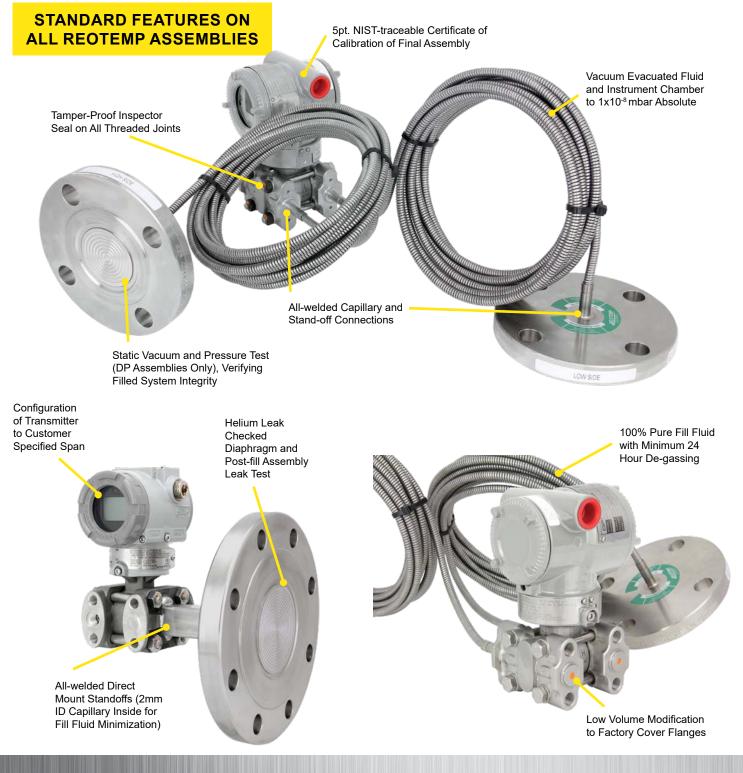
Instrument mount through face of cover flange, HP Side. Use "R9" if mounting to LP Side

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DIAPHRAGM SEAL ASSEMBLY TO SMART TRANSMITTERS

REOTEMP specializes in the unique craft of assembling diaphragm seals to field transmitters for the purpose of measuring pressure, differential pressure, level, and flow. As a trusted supplier to many of the world's leading transmitter manufacturers, REOTEMP can assemble a diaphragm seal system to virtually any make or model transmitter. Every transmitter mount includes the features below to ensure superior performance and durability for every assembly. REOTEMP also offers repair, refurbishment or replacement of used transmitters with remote seals.





INSTRUMENT MOUNTING CONFIGURATIONS

DIRECT MOUNT

Direct Mounting a pressure gauge, switch, or transmitter is the most common diaphragm seal assembly.



- Allows Replaceability
- High Quality Thread Sealant
- · Inspector Seal



- Tamper Proof
- · Rated for High Temps
- Leak Resistant

Code	Description	Max. Temp
-DTD	Threaded Instrument Connection	400°F
-DWD	Welded Instrument Connection	600°F

Assembly Notes: Welded connection recommended for pressure exceeding 1,500 psi for purposes of leak prevention.

COOLING ELEMENTS

Used in either high temp or cold temp applications, Cooling Elements mounted above diaphragm seals quickly normalize fluid temperature toward ambient. This protects the pressure instrument while still maintaining the convenience of a direct mount.



-RTR		-STW			
Code	De	escription	Max. Temp		
-RTR	6" Cooling To	wer	750°F		
-STW	3" Cooling Sta	andoff	600°F		

Assembly Notes: Cooling elements are welded to diaphragm seal. Instruments are threaded to cooling element unless specified. All lengths are nominal.

REMOTE MOUNT

Remote Mounting a pressure instrument using flexible capillary is a common mounting method when the point of measurement is in a hazardous or inconvenient location.

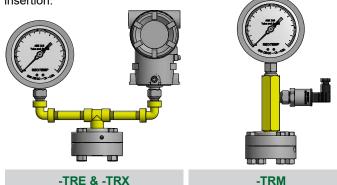


Code	Description	Max. Temp			
-P??	PVC Coated SS Armor, Threaded to Seal	400°F			
-W??	PVC Coated SS Armor, Welded to Seal	600°F			
-A??	SS Flexible Armor, Threaded to Seal	400°F			
-B??	SS Flexible Armor, Welded to Seal	750°F			
Note: ?? = Length in feet (e.g. 05 = 5 feet)					

Assembly Notes: Capillary has a 2mm inner diameter unless specified differently by customer. Ambient temp limit of PVC coated armor is 250°F. Standard instrument connection is threaded (Smart Transmitters are welded), unless specified by customer.

TREE ASSEMBLIES

Tree Assemblies offer the ability to mount two pressure instruments onto one diaphragm seal, allowing the user to gain both a local indication and a remote signal without adding an additional pipe insertion.



Code	Description	Max. Temp
-TRE	Goal Post, Low Pressure Assembly (Max. 150 psi)	400°F
-TRX	Goal Post, Heavy Duty (Max. 3,000 psi)	600°F
-TRM	Compact Tree Assembly (Max. 3,000 psi)	600°F

Assembly Notes: Threaded joints are fully welded for consistent instrument orientation. Instrument connections are threaded unless specified by customer. Diaphragm seal must displace enough fluid to drive both instruments.



FILL GUIDE

Diaphragm seals are designed to protect pressure instruments from hot process media and corrosive chemicals while minimizing any negative effect on instrument accuracy and durability. A well-made diaphragm seal can achieve this goal only if it is properly assembled, filled, and tested. REOTEMP's highly trained technicians use state-of-the-art equipment so that every diaphragm seal assembly is filled and tested to assure optimal instrument performance:

- 24-hour Minimum Fluid Degassing
- **Evacuated Instrument** Chamber Up to 10⁻⁸ mbar Absolute
- Complete Fill Integrity Check
- Fill-port Leak Test
- Post-fill Static Test
- Verification of Instrument Calibration
- High-temp Pipe Sealant Used on All Threaded Joints
- (Welded Joints Upon Request)
- Tamper-proof (Inspection Seal) Lacquer used on All **Threaded Joints**
- Sturdy Diaphragm Packaging Protection



Part Number Code	Name	Description	Temperature Range (Vacuum Service <5psia)	Pulse	Viscosity cst @ ~77°F	Specific Gravity @ ~77°F	Thermal Expansion cc/cc/°C	
	STANDARD FILL FLUID							
AS	Silicone DC200 ¹	This is the standard fill fluid for most diaphragm seal applications.	-40°F to 400°F (-40°F to 250°F)	Yes	20	0.94	.00104	
		HIGH TEMP SILICONE						
вн	Silicone DC704 ¹	Standard for Smart Transmitters and capillary systems. Performs well in applications with high temperature and a deep vacuum.	0°F to 650°F (0°F to 450°F)	No	44	1.07	.00077	
B1	Silicone DC710 ¹	Highest temperature rating; ideal for gauge seal assemblies. Too thick for capillary assemblies. Response time can become very slow in cold conditions.	50°F to 750°F (50°F to 400°F)	Yes	500	1.11	.00043	
C8	Syltherm 800 ²	Low viscosity allows it to perform well in both low and high temperatures. Not recommended for vacuum service or at high temperatures when under low static pressure.	-40°F to 750°F (-40°F to 150°F)	No	9.5	0.93	.00136	
B5	Silicone DC705 ¹	Performs very well in high temperatures when under vacuum. The high viscosity and freezing point of this fluid makes it a poor choice for cold or outdoor installations without heat tracing.	50°F to 675°F (50°F to 550°F)	Yes	175	1.09	.00096	
B2	Silicone DC550 ¹	Similar high temperature performance as DC705, however it performs better at lower temperatures.	-40°F to 575°F (-40°F to 400°F)	No	125	1.07	.00076	
		FOOD GRADE						
AG	Glycerin USP	This is the standard fill fluid for most gauge seal assemblies for food, beverage, and pharmaceutical applications. Its high viscosity will cause very slow response at times in low temperature and outdoor installations.	60°F to 450°F (Not Suitable)	Yes	1100	1.26	.00061	
BN	NEOBEE M20 ⁷	Low viscosity and a wide temperature range makes this the standard sanitary fill fluid for Smart Transmitters and capillary systems.	-10°F to 400°F (-10°F to 200°F)	No	10	0.92	.00101	
BS	Food Grade Silicone	Highest temperature limit for food grade fluids. Because of its high viscosity it does not perform well in low temperatures.	20°F to 550°F (20°F to 250°F)	Yes	350	0.97	.00096	
ВР	Propylene Glycol	This is the fill fluid used when Glycol is called for on the customer specification. It has a very narrow temperature range.	0°F to 200°F (Not Suitable)	No	2.85	1.03	.00073	
	II	NERT (TYPICALLY FOR CHLORINE AND OXYGEN APPLICATIONS	OR IN SILICONE-	FREE ENVI	RONMENTS	S)		
C1	Fomblin Y06 ⁴	Ideal inert fluid for transmitter applications. Relatively high vapor pressure above 200°F. Not recommended for use in high temperature situations with low static pressure.	-40°F to 450°F (0°F to 250°F)	No	71	1.88	.00086	
C2	Halocarbon 6.3 ³	Standard inert fluid used in gauge seal assemblies.	-40°F to 400°F (-40°F to 200°F)	Yes	6.3	1.97	.00084	
C3	Halocarbon 1.8 ³	Typically used in low temperature applications because of its low viscosity.	-110°F to 220°F (-100°F to 100°F)	No	1.8	1.82	.00084	
C4	Fluorolube FS-5 ⁵	Similar performance to Halocarbon 6.3, however not suitable for vacuum service.	-40°F to 450°F (Not Suitable)	No	5	1.86	.00087	
		SPECIALTY						
СК	Krytox 1506 ⁶	Specialty fill fluid, inert.	-40°F to 350°F (-40°F to 300°F)	No	62	1.88	.00095	
BE	Ethylene Glycol	Occasionally used in annular (O-ring) seal assemblies.	-25°F to 320°F (Not Suitable)	No	30	1.10	.00062	

¹ Trademark Dow Corning

Note: PulsePlus™ fill fluids may have different physical properties than specified. Chemical composition and temperature ranges do not vary.

³ Trademark Halocarbon Product Corporation

⁵ Trademark Hooker Chemical Company

⁷ Trademark Stepan Specialty Products

⁴ Trademark AUSIMONT S.P.A

⁶ Trademark The Chemours Company FC, LLC



THREADED OFFLINE WELDED DIAPHRAGM SEALS

REOTEMP's Threaded Offline Welded Diaphragm Seals are designed with an upper and lower housing bolted together with a diaphragm welded to the upper housing. This removable design allows for easy cleanout of the seal chamber, while still maintaining the system fill. The threaded offline diaphragm seal can be adapted to fit almost any pressure instrument and process application.



SPECIFICATIONS

Diap	hragm		316/316L SS, Hast C-276, Tantalum, Monel A400, Nickel 201, or Others			
Lowe	er Housing		316/316L SS, Hast C-276, Monel A400, Alloy 20, Hast B, 304/304L SS, or Others			
Gask	et	•	Klinger C-4401, PTFE Durlon 9600, Grafoil, Kalrez, or Virgin PTFE			
Uppe	r Housing	316/316L SS	, 304/304L SS	or Others		
Proc	ess					
Temperature Limits		5	W51/W61	W5K/W6M/W5H		
		PTFE Gasket	-110/350°F	-110/400°F		
	Metallic Lower	Klinger Gasket	-110/450°F	-110/500°F		

Ambient	Determined by the pressure instrument.
Tomporature Limite	

-40/600°F

140°F

Grafoil Gasket

Non-Metallic Lower

Temperature Limits							
Minimum							
Recommer	nded Span	W5	W6				
	2.5" & 3.5" Gauges	15 psi	200" H ₂ O				
	4", 4.5", & 6" Gauges	30 psi	200" H ₂ O				
	Transmitter (Gauge Pressure)	150" H ₂ O	60" H ₂ O				
	Transmitter (Differential Pressure)	300" H ₂ Od	60" H ₂ Od				
	Differential Pressure Gauge (D40/42 Only)	N/A	N/A				

W	ei	g	ht	N	

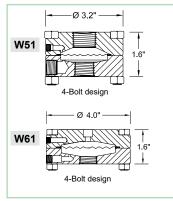
Note:	
Weights are	
approximate.	

	Metallic Lower	Non-Metallic Lower
W51/W5K	3.5 lbs	2.5 lbs
W5H	11.0 lbs	N/A lbs
W61/W6M	5.2 lbs	4.2 lbs

FEATURES / BENEFITS

- Welded Diaphragm for Maximum Durability
- Wide Variety of Diaphragm and Material Options
- Continuous-duty Disc Protects from Process Fluid Leaking in the Event of a System Breach
- Easy Cleanout of Diaphragm Cavity without Compromising Filled System

Standard Pressure



Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings

W5K 8-Bolt design W5H 8-Bolt design

8-Bolt design

Heavy Duty

Maximum Working Pressure at 100°F:

	Bolts	Grade 5	Grade 8	18/8SS	316SS
	W51	2,500 psi	2,500 psi	1,500 psi	1,500 psi
	W5K	5,000 psi	5,000 psi	3,000 psi	2,500 psi
Metallic Lower	W5H	-	10,000 psi	-	-
	W61	1,500 psi	1,500 psi	1,000 psi	750 psi
	W6M	2,500 psi	2,500 psi	2,000 psi	2,000 psi
Non-Metallic Lower		300 psi	300 psi	300 psi	300 psi

W₆M

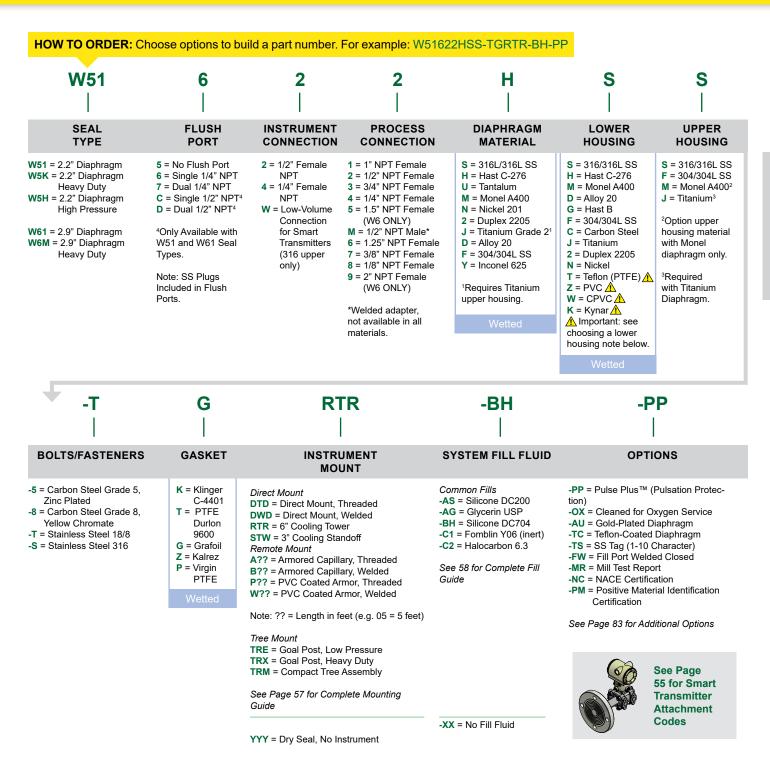
-40/750°F

N/A

Series W51/W61



THREADED OFFLINE WELDED DIAPHRAGM SEALS





Important Note on Choosing a Lower Housing: Reotemp recommends the use of metallic lower housings when process compatibility allows. Before specifying a non-metallic lower housing, users should be familiar with the material characteristics and risks of non-metallic materials including leaking, cracking, flowing and other issues that can affect durability and performance.



Series T51/V51/T61

THREADED OFFLINE NON-METALLIC DIAPHRAGM SEALS

REOTEMP's Threaded Offline Non-Metallic Diaphragm Seals are designed with an upper and lower housing bolted together with a Teflon or Viton diaphragm bonded to the upper housing. This design allows for the lower housing to be removed for easy cleanout of the seal chamber while still maintaining the system fill. The Teflon and Viton diaphragms are ideal for protecting the pressure instrument from corrosive process fluid.







With Teflon Diaphragm

With Viton Diaphragm

FEATURES / BENEFITS

- · Removable Lower Housing Design for Easy Cleanout
- Wide Variety of Plastic and Metallic Lower Housing Materials
- · Highly Sensitive and Corrosion Resistant Diaphragm
- High Displacement Diaphragms Ideal for Mechanical Differential Pressure Gauges and Low Pressure Gauges

SPECIFICATIONS

Diaphragm	Teflon Virgin PTFE or Viton A.			
Lower Housing	316/316L SS, Hast C-276, Monel A400, Alloy 20, Teflon PTFE, PVC or others.			
Gasket	PTFE Durlon 9	600 or Viton A		
Upper Housing	316/316L SS or Carbon Steel Nickel Plated			
Process	Lower Housing	Diaphragm	Max. Temp.	
Temperature Limits	Metallic Lower	Teflon	450°F	
		Viton	300°F	
	Non-Metallic	Teflon	140°F	
	Lower	Viton	140°F	

Temperature Limits

Minimum Recommended Span

Ambient

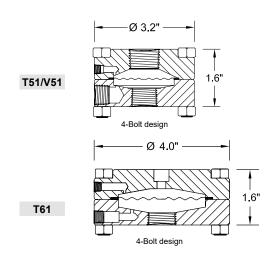
	T5	T6	V5
2.5" & 3.5" Gauges	15 psi	60" H ₂ O	25" H ₂ O
4", 4.5", & 6" Gauges	15 psi	60" H ₂ O	25" H ₂ O
*Transmitter (Gauge Pressure)	15 psi	5 psi	30" H ₂ O
*Transmitter (Differential Pressure)	n/a	200" H ₂ Od	60" H ₂ Od
Differential Pressure Gauge	n/a	300" H _o Od	100" H _a Od

*Warning: Non-metallic diaphragms are not recommended for critical transmitter applications.

Weight

		Metallic Lower	Non-Metallic Lower
	T5	3.5 lbs	2.5 lbs
Note: All Weights are	T6	5.2 lbs	4.2 lbs
Approximate.	V5	3.5 lbs	2.5 lbs

Determined by the pressure instrument.



Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings.

Maximum Working Pressures at 100°F:

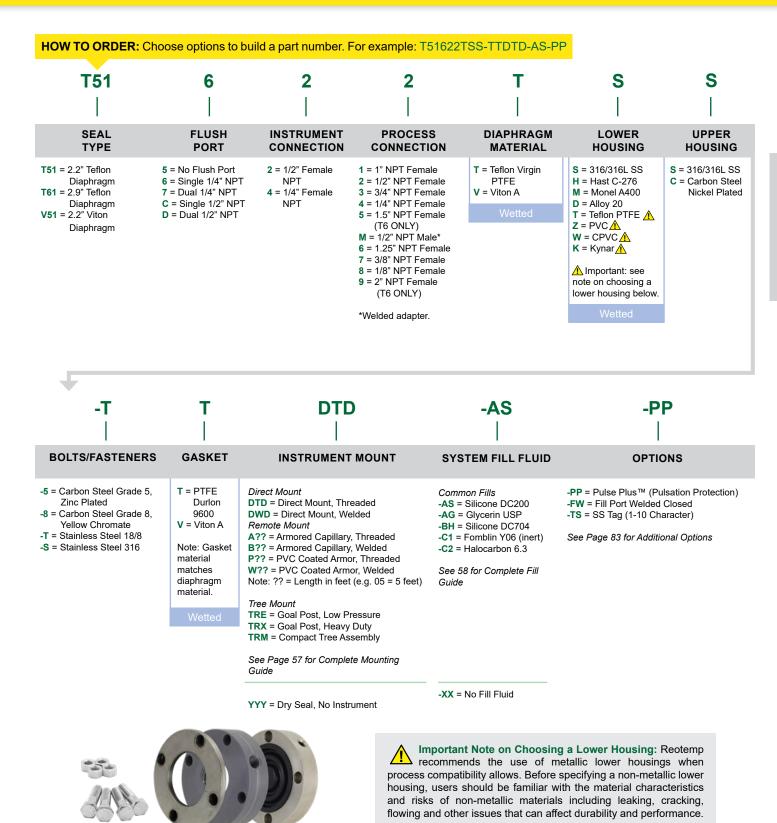
Bolts	Grade 5	Grade 8	18/8SS	316SS
Metallic Lower, T51, V51	2,500 psi	2,500 psi	1,500 psi	1,500 psi
Metallic Lower, T61	1,500 psi	1,500 psi	1,000 psi	750 psi
Non-Metallic Lower	300 psi	300 psi	300 psi	300 psi

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Series T51/V51/T61



THREADED OFFLINE NON-METALLIC DIAPHRAGM SEALS



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FLANGED OFFLINE WELDED DIAPHRAGM SEALS

REOTEMP's Flanged Offline Welded Diaphragm Seals are designed with an upper and lower housing, bolted together with a diaphragm welded to the upper housing. This removable design allows for easy cleanout of the seal chamber, while maintaining the system fill. The flanged offline diaphragm seal can be adapted to fit almost any pressure instrument and process application.



Maximum Working

Pressure



Lower Ring Style

FEATURES / BENEFITS

- · Welded Diaphragm for Maximum Durability
- · Wide Variety of Diaphragm and Material Options
- Continuous-duty Disc Protects from Process Fluid Leaking in the Event of a System Breach
- Easy Cleanout of Diaphragm Cavity without Compromising Filled System

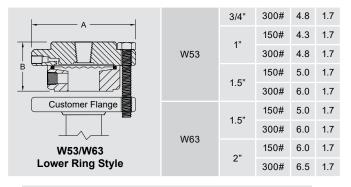
Diaphragm = (ALIGN A B

SPECIFICATIONS						
Diaphragm		316/316L SS, Hast C-276, Tantalum, Monel A400, Nickel 201, or Others				
Lower	Housing	316/316L SS, Hast C-276, Monel A400, Alloy 20, Hast B, or Others				
Gasket	:	Klinger C-4401, Grafoil, Kalrez, o				
Upper	Housing	316/316L SS, 30 or Titanium)4/304L SS, M	lonel A400,		
Proces	_		Housir	ng Type		
rempe	rature Limits		2	3		
		PTFE Gasket	-110/400°F			
	Metallic Lower	Klinger Gasket	-110/500°F			
		Grafoil Gasket	-40/750°F			
	Non-Metallic Lower		N/A	140°F		
Ambient Determined by the pressure instrument. Temperature Limits						
Minimum Recommended Span W5 W6						
	2.5" & 3.5" Gauges		15 psi	200" H ₂ O		
	4", 4.5", & 6" Gauges		30 psi	200" H ₂ O		
	Transmitter (Gauge Pressure)		150" H ₂ O	60" H ₂ O		
	Transmitter (Differential Pressure)		300" H ₂ Od	60" H ₂ Od		
	Differential Pressure Gauge (D40/42 Only)		N/A	N/A		

Determined by flange.

Size	Flange	(ANSI)	(in)	(in)
	1/0"	150#	3.3	1.7
W52	1/2	300#	3.5	1.7
	3/4"	150#	3.5	1.7
	1/0"	150#	4.0	1.7
	1/2	300#	4.0	1.7
W62	3//"	150#	4.0	1.7
VV02	3/4	300#	4.0	1.8
	1"	150#	4.0	1.7
	'	300#	4.8	1.8
		Size Flange 1/2" W52 3/4" 1/2"	Size Flange (ANSI) W52 1/2" 150# 300# 3/4" 150# 1/2" 300# 1/2" 300# 300# 150# 150# 17"	Size Flange (ANSI) (in) W52 1/2" 150# 3.3 300# 3.5 3/4" 150# 3.5 1/2" 300# 4.0 300# 4.0 3/4" 150# 4.0 150# 4.0 150# 4.0

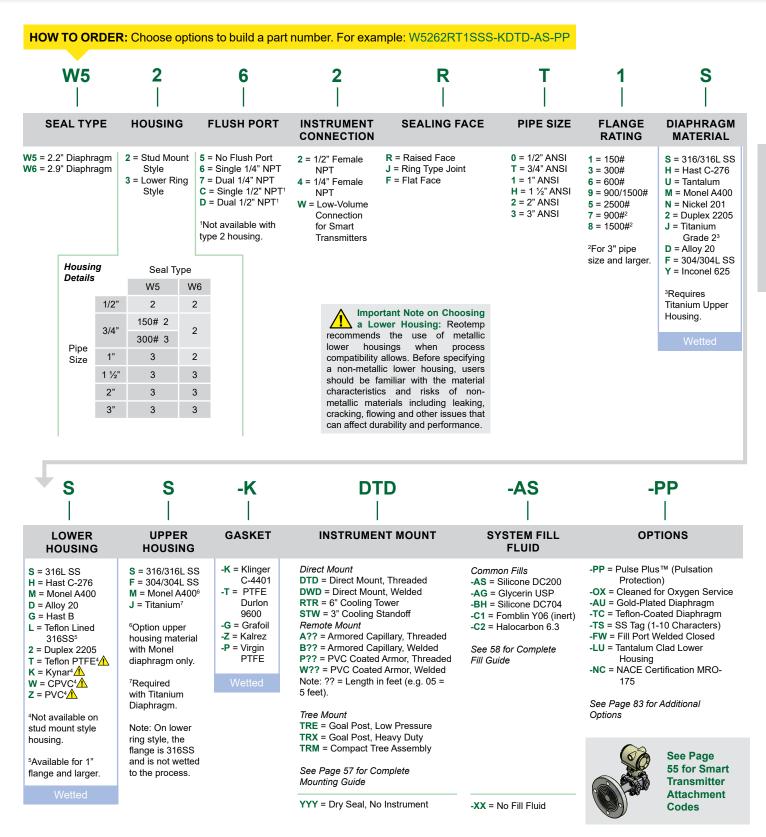
Note: stud bolts provided as a convenience. Reotemp recommends customer provide their own bolts and fasteners.



Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings.



FLANGED OFFLINE WELDED DIAPHRAGM SEALS





Series T5/T6/V5

FLANGED OFFLINE NON-METALLIC DIAPHRAGM SEALS

REOTEMP's Flanged Offline Non-Metallic Diaphragm Seals are designed with an upper and lower housing bolted together with a Teflon or Viton diaphragm bonded to the upper housing. This design allows for the lower housing to be removed for easy cleanout of the seal chamber while still maintaining the system fill. The Teflon and Viton diaphragm are ideal for protecting the pressure instrument from corrosive process fluid.





Lower Ring Style

FEATURES / BENEFITS

- Removable Lower Housing Design for Easy Cleanout
- Wide Variety of Plastic and Metallic Lower Housing Materials
- · Highly Sensitive and Corrosion Resistant Diaphragm
- High Displacement Diaphragms Ideal for Mechanical Differential Pressure Gauges and Low Pressure Gauges

Dian Sizo Flango (ANSI) A B

SPECIFICATIONS						
Diaphragm	Teflon Virgin P	TFE or Viton A				
Lower Housing	316/316L SS, Hast C-276, Monel A400, Alloy 20, Hast B, or Others.					
Gasket	Teflon Durlon	Teflon Durlon 9600 or Viton A				
Upper Housing	316/316L SS c	316/316L SS or Carbon Steel Nickel Plated				
Process	Lower Housing	Diaphragm	Max. Temp.			
Temperature Limits	Metallic Lower	Teflon	450°F			
	Metallic Lower	Viton	300°F			
	Non-Metallic	Teflon	140°F			
	Lower Viton 140°					

Ambient Determined by the pressure instrument.

Temperature Limits

Minimum Recommended Span

	T5	T6	V5
2.5" & 3.5" Gauges	15 psi	60" H ₂ O	15" H ₂ O
4", 4.5", & 6" Gauges	15 psi	60" H ₂ O	15" H ₂ O
*Transmitter (Gauge Pressure)	15 psi	5 psi	30" H ₂ O
*Transmitter (Differential Pressure)	n/a	200" H ₂ Od	60" H ₂ Od
Differential Pressure Gauge	n/a	300" H ₂ Od	100" H ₂ Od

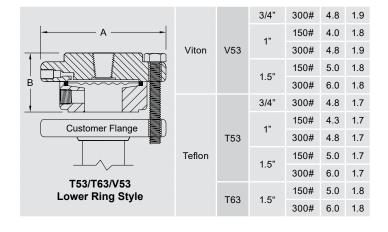
*Warning: Non-metallic diaphragms are not recommended for critical transmitter applications.

Maximum Working Determined by flange.

Pressure

	ыар.	Size	Flange	(ANSI)	(in)	(in)
A ————			1/2"	150#	3.5	1.8
	Viton	V52	1/2	300#	3.5	1.8
B /////			3/4"	150#	3.5	1.8
			1/2"	150#	3.3	1.7
		T52	1/2	300#	3.5	1.7
Customer Flange			3/4"	150#	3.5	1.7
	Teflon		1/2"	150#	4.0	1.8
T52/V52		T62	1/2	300#	4.0	1.8
Stud Mount Style		102	3/4"	150#	4.0	1.8
			& 1"	300#	4.8	1.9

Note: stud bolts provided as a convenience. Reotemp recommends customer provide their own bolts and fasteners.



Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings.

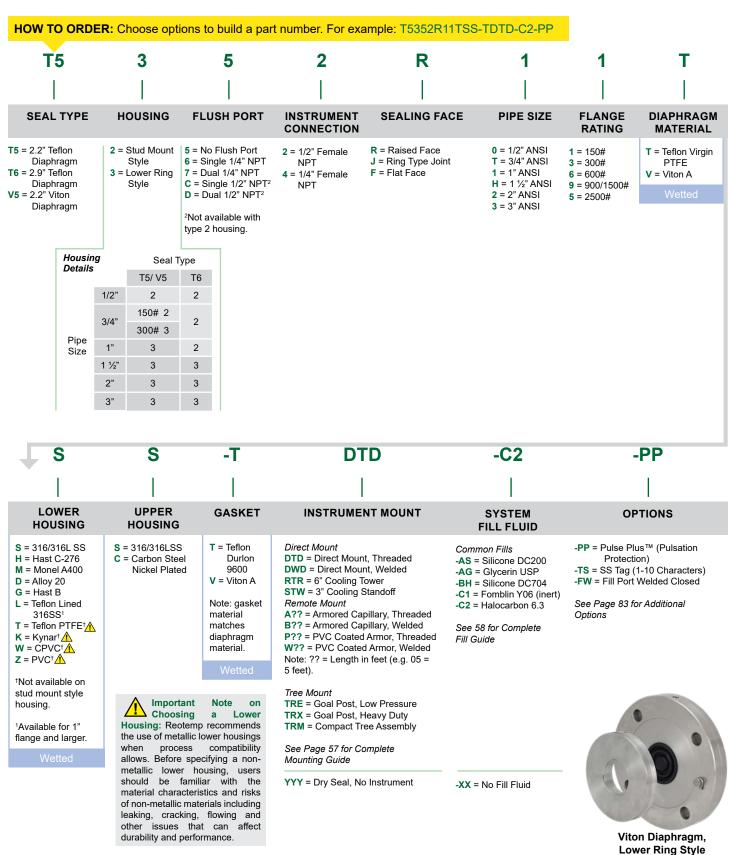
REOTEMP

FLANGED OFFLINE NON-METALLIC DIAPHRAGM SEALS

DIAPHRAGM SEALS

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INSTRUMENTS





HIGH ACCURACY THREADED DIAPHRAGM SEALS

REOTEMP's High Accuracy and High Displacement Threaded Diaphragm Seals are ideal for applications where high sensitivity or large fluid displacement is key to proper instrument performance. Designed with a diaphragm welded to the upper housing, the lower housing is detachable from the seal body allowing for easy cleanout of the process cavity without losing system fill. The High Accuracy Threaded Diaphragm Seal is most commonly mounted to Smart Transmitters (Gauge, Differential, and Absolute pressure), low pressure capsule gauges, mechanical DP gauges, and mechanical pressure switches.

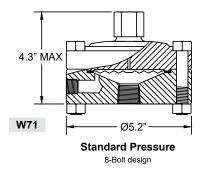


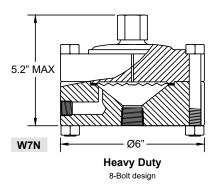
W71

FEATURES / BENEFITS

- Extra Large 4.1" Diaphragm for Maximum Sensitivity
- · Wide Variety of Wetted Material Options
- · 100% Helium Leak Tested Diaphragm Welds
- · Easy Cleanout Design with Multiple Flush Port Options

SPECIFICAT	IONS				
Diaphragm	316/316L SS, Hast C-276, Tantalum, Monel A400, Nickel 201, or Others				
Lower Housing	316/316L St Alloy 20, Ha				
Gasket	Klinger C-4 Grafoil or V	,		600,	
Upper Housing	316/316L Stor Titanium	S, 304/304	4L SS, Mor	nel A400,	
Process Temperature Limits				W7	
remperature Limits		10/400°F			
	Klinger Gasket -11			10/500°F	
		Grafoil Gas	ket -4	0/750°F	
Ambient Temperature Limits	Determined	by the pre	essure inst	rument.	
Minimum	2.5"	& 3.5" Gau	aes	30" H ₂ O	
Recommended Span	4", 4.5", & 6" Gauges			30" H ₂ O	
	Transmitter (Gauge Pressure)			15" H ₂ O	
	Transmitter (Differential Pressure)			15" H ₂ Od	
	Differential Pressure Gauge (D40/42 Only)			100" H ₂ Od	
Weight	12 lbs. Note	: weight is	approxima	ate.	
Maximum Working		Bolts	Grade 8	316SS	
Pressure at 100°F:		W71	1,500 psi	750 psi	
		W7N	4,000 psi	2000 psi	





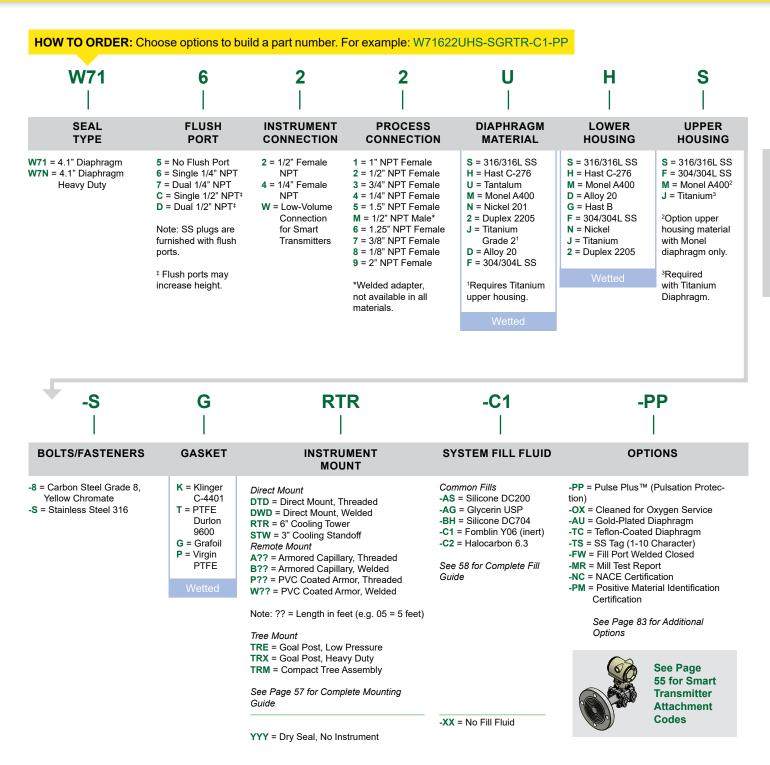
Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings.

PTC-0719

Series W71



HIGH ACCURACY THREADED DIAPHRAGM SEALS





HIGH ACCURACY FLANGED DIAPHRAGM SEALS

REOTEMP's High Accuracy Flanged Diaphragm Seals are ideal for applications where high sensitivity or large fluid displacement is key to proper instrument performance. Designed with a diaphragm welded to the upper housing, the lower housing is detachable from the seal body allowing for easy cleanout of the process cavity without losing system fill. The High Accuracy Flanged Diaphragm Seal is most commonly mounted to Smart Transmitters (Gauge, Differential, and Absolute pressure), low pressure capsule gauges, mechanical DP gauges, and mechanical pressure switches.



Pressure



Lower Ring Style

FEATURES / BENEFITS

- Extra Large 4.1" Diaphragm for Maximum Sensitivity
- · Wide Variety of Wetted Material Options
- 100% Helium Leak Tested Diaphragm Welds
- Easy Cleanout Design with Multiple Flush Port Options

Dianhragm	316/316L SS, Hast C-276, Tantalum,			
Diaphragm), Tantalum, or Ot		,
Lower Housing		S, Hast C-276, Mast B, Duplex 220		
Gasket	0	Klinger C-4401, PTFE Durlon 9600, Grafoil, or Virgin PTFE		
Upper Housing	316/316L SS, 304/304L SS, Monel A400 or Titanium			
Process Temperature Limits		PTFE Gasket	-	110/400°F
remperature Limits		Klinger Gasket	-	110/500°F
		Grafoil Gasket		-40/750°F
Ambient Temperature Limits	Determined	by the pressure i	insti	rument.
Minimum Recommended Span				W7
Recommended Span	2.5" 8	& 3.5" Gauges		30" H ₂ O
	4", 4.5	5", & 6" Gauges		30" H ₂ O
	Transmitter (Gauge Pressure)		15" H ₂ O	
	Transmitter (Differential Pressur	e)	15" H ₂ Oc
		al Pressure Gauge 40/42 Only)		100" H ₂ O

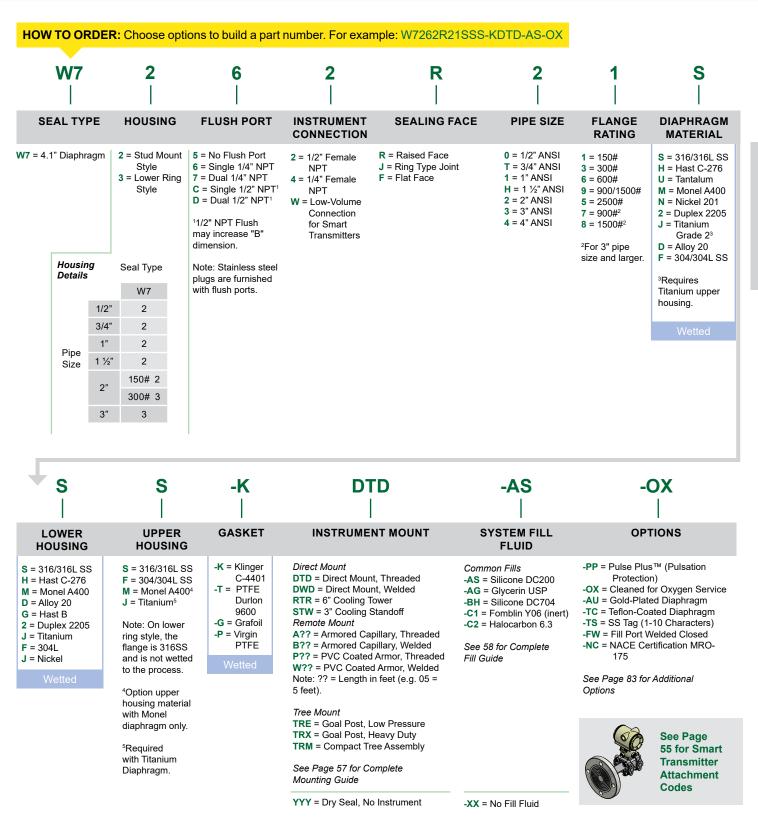
	Diaphragm Size	Flange	(ANSI)	A (in)	B (in)
		1/2" & 3/4"	150#	5.3	4.0
CUSTOMER FLANGE W72 Stud Mount Style Note: stud bolts provided as a convenience. Reotemp recommends customer provide their own bolts and fasteners.			300#	5.3	4.0
	W72	1"	150#	5.3	4.0
		·	300#	5.3	4.0
		1.5"	150#	5.3	4.0
			300#	5.3	4.0
		2"	150#	6.0	4.0
2.2 MAX "B" CUSTOMER FLANGE W73 Lower Ring Style	W73	2"	300#	6.5	2.1
		3"	150#	7.5	1.9
			300#	8.3	2.4

Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings.

Series W7



HIGH ACCURACY FLANGED DIAPHRAGM SEALS





FLANGED FLUSH FACE DIAPHRAGM SEALS

REOTEMP's Flanged Flush-Face Diaphragm Seals are useful in applications where a continuous flow of process across the diaphragm is required to prevent solids buildup and a one-piece, all-welded construction is desired.





W9FF Wetted Flange

W9FR Integral Face Non-wetted Flange

SPECIFICATIONS

Wetted Materials Flange: 316 SS, 304 SS, Monel, Alloy 20,

or Hast C-276.

Diaphragm: 316 SS, Hast C-276, Tantalum, Monel, or others

Process -110° to 750°F

Temperature Limits

Ambient Determined by the pressure instrument.

Temperature Limits

Minimum Recommended Span	Diaphragm Size				
Recommended opan	1.8"	2.2"	3.5"	4.1"	
2.5" & 3.5" Gauges	30 psi	15 psi	10 psi	30" H ₂ O	
4", 4.5", & 6" Gauges	N/A	60 psi	10 psi	30" H ₂ O	
Transmitter (Gauge Pressure)	10 psi	100" H ₂ O	30" H ₂ O	15" H ₂ O	
Transmitter (Differential Pressure)	N/A	150" H ₂ Od	30" H ₂ Od	15" H ₂ Od	
Differential Pressure Gauge	N/A	N/A	N/A	100" H ₂ Od	

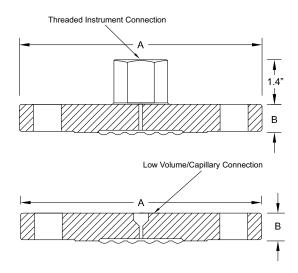
Available Diaphragm Sizes

	Diaphragm Size					
	1.8" 2.2" 3.5" 4.1"					
1-1/2" Flange	STD	N/A	N/A	N/A		
2" Flange	-D5	STD	N/A	N/A		
3" Flange	-D5	-D6	STD	N/A		
4" Flange	-D5	-D6	STD	-D9		
Optional Diaphragm sizes are only available in W9FF, standard						

diaphragm sizes are the same for W9FF and W9FR.

FEATURES / BENEFITS

- One-piece Seal Design Bolts Directly to Process Flange
- · Center Instrument Exit
- · Commonly Supplied with Flush/Calibration Ring
- · Ideal for Gauge or Differential Pressure Transmitters



Weights and Dimensions:

	Flange Rating	Α	В	# of Bolts	Weight (Lbs.)
1 ½"		5"	.69"	4	4
2"	150#	6"	.75"	4	5
3"		7.5"	.94"	4	9
4"		9"	.94"	8	17
1 ½"		6.13"	.81"	4	6
2"	300#	6.5"	.88"	8	8
3"		8.25"	1.13"	8	16

NOTE: Weights and dimensions are for raised face flanges only. Other flange sizes and sealing face info can be found in ANSI B16.5 standards.

Maximum Working Pressures at 100°F:

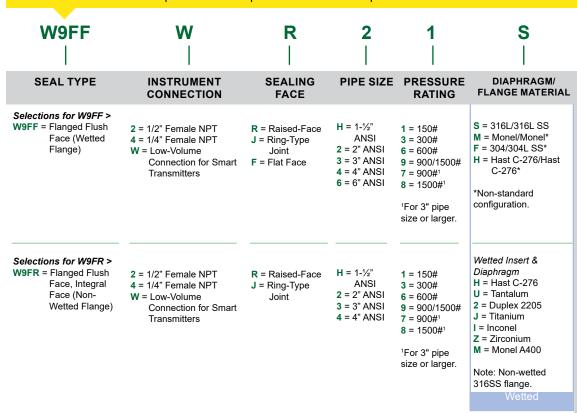
Determined by ANSI B16.5 flange ratings.

PTC-0719



FLANGED FLUSH FACE DIAPHRAGM SEALS

HOW TO ORDER: Choose options to build a part number. For example: W9FFWR21S-W10-AS-TS // DXFR241S

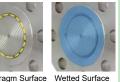














SYSTEM FILL FLUID



// DXFR241S

Selections for Both W9FF & W9FR >

- -DTD = Direct Mount, Threaded -DWD = Direct Mount, Welded
- -RTR = 6" Cooling Tower -STW = 3" Cooling Tower
- -A?? = Armored Capillary, Threaded
- -B?? = Armored Capillary, Welded
- -P?? = PVC Coated Armor, Threaded
- -W?? = PVC Coated Armor, Welded
- Note: ?? = Length in Feet (e.g. 05 = 5 feet)
- See Page 57 for Complete Mounting Guide
- -YYY = Dry Seal, No Instrument

- Common Fills -AS = Silicone DC200
- -AG = Glycerin USP
- -BH = Silicone DC704
- -C1 = Fomblin Y06
- -C2 = Halocarbon 6.3
- See 58 for Complete Fill

Guide

-XX = No Fill Fluid

OPTIONS

- -OX = Cleaned for
- Oxygen Service Gold-Plated
- Diaphragm (20 Microns)
- -NC = NACE Certification
- MRO-175 -TC = Teflon-Coated
- Diaphragm -TS = SS Tag (9
- Character Max.) -D9 = 4.1" Diaphragm (W9FF 4" Only)
- -D6 = 2.2" Diaphragm (Optional on W9FF 3" and 4")

Codes

See Page 55 for Smart Transmitter Attachment

FLUSH/CALIBRATION RINGS (OPTIONAL)

- **DXFR241S** = 2" Pipe, Single 1/4" Port, 316SS **DXFR242S** = 2" Pipe, Dual 1/4" Port, 316SS
- **DXFR221S** = 2" Pipe, Single 1/2" Port, 316SS
- **DXFR222S** = 2" Pipe, Dual 1/2" Port, 316SS **DXFR341S** = 3" Pipe, Single 1/4" Port, 316SS
- **DXFR342S** = 3" Pipe, Dual 1/4" Port, 316SS **DXFR321S** = 3" Pipe, Single 1/2" Port, 316SS
- **DXFR322S** = 3" Pipe, Dual 1/2" Port, 316SS
- See Page 81 for Complete Offering





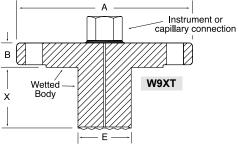
Series W9XT

EXTENDED DIAPHRAGM SEAL



The Extended Diaphragm Seal is ideal for highly viscous and dry powder applications. Its unique design eliminates dead space in piping. It is often used for flush mounting in thick-walled vessels and is available in standard and custom lengths.

W9XT



SPECIFICATIONS						
Wetted	Materials 316L S	316L SS or Hast C-276				
Process	-110°F ature Limits	-110°F to 750°F				
	Ambient Determined by the pressure instrument. Temperature Limits					
Minimu	·					
Recomr	nended Span	2"	3"	4"		
	Transmitter (Gauge Pressure)	200 "H ₂ O	100 "H ₂ O	30 "H ₂ O		
	Transmitter (Differential Pressure)	200 "H ₂ Od	150 "H ₂ Od	30 "H ₂ Od		

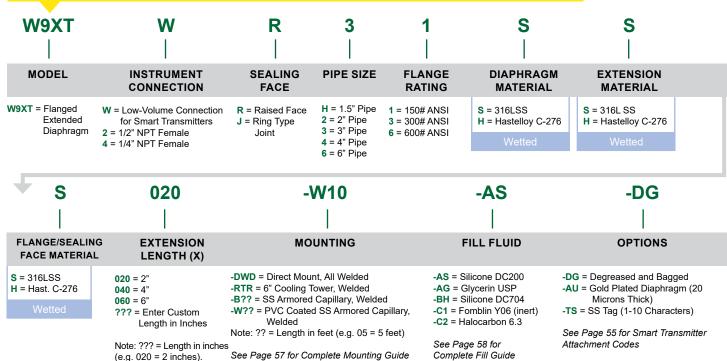
Dimensions:

	Flange Rating	Α	В	E*
1.5"	150#	5"	0.70"	1.40"
2"	150#	6"	0.75"	1.90"
2	300#	6.5"	0.88"	1.90"
3"	150#	7.5"	0.94"	2.80"
3	300#	8.25"	1.13"	2.80"
4"	150#	9"	0.94"	3.70"
	300#	10"	1.19"	3.70"
6"	150#	11"	0.94"	5.5"

NOTE: Dimensions are for raised face flanges only. Other flange sizes and sealing face info can be found in ANSI B16.5 standards.

*Extension diameter meant to fit SCH80 Nozzle. Custom extension diameters available.

HOW TO ORDER: Choose options to build a part number. For example: W9XTWR31SSS020-W10-AS-DG





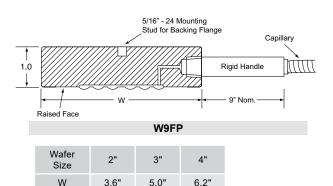
FLUSH PANCAKE (WAFER) DIAPHRAGM SEAL



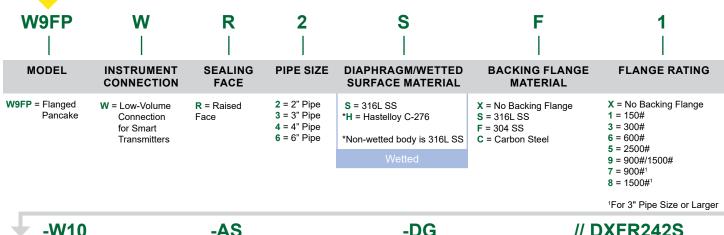
The Flush Pancake (Wafer) Diaphragm Seal is a flange type diaphragm seal with no bolt holes. It mounts between an open process flange and cover flange. Instruments are connected via side capillary connection and it is an ideal seal for transmitters or dP transmitters.

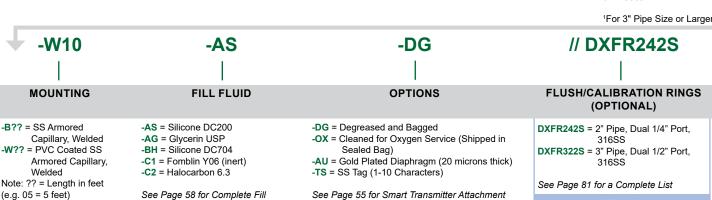
SPECIFICATIONS **Wetted Materials** 316L SS or Hast C-276 -110°F to 750°F **Process Temperature Limits Ambient** Determined by the pressure instrument. **Temperature Limits** Minimum 3" & 4" **Recommended Span** Transmitter (Gauge Pressure) 100" H₂O 30" H₂O Transmitter (Differential Pressure) 150" H₂Od 30" H₂Od

Guide



HOW TO ORDER: Choose options to build a part number. For example: W9FPWR2SF1-W10-AS-DG // DXFR242S





Codes



Series DSTF

THREADED FLUSH FACE DIAPHRAGM SEALS



REOTEMP's Threaded Flush Face Seals are ideal for high and medium pressure applications where process media clogging is a concern. The diaphragm is welded onto the end of the threads allowing for continuous flow of process media across the diaphragm and preventing any build-up of solids. Selection of process connection will greatly impact accuracy and temperature sensitivity.

DSTF

SPECIFICATIONS Body: 316 SS, Hast-C **Wetted Materials** Diaphragm: 316SS, Hast-C **Process Temperature Limits Process Connection** 1/2" 3/4" 1" 1.5"/2" Limit 0/150°F 20/200°F -40/400°F -40/600°F NOTE: Always use largest thread possible for smaller temperature effect. **Ambient** Determined by the pressure instrument. **Temperature Limits** Minimum Recommended Span Male Process Thread NPT 1/2" 3/4" 1.5"/2" 2.5" & 3.5" Gauges 60 psi 30 psi 15 psi 15 psi

n/a

60 psi*

n/a

15 psi*

*Not Recommended for Critical Transmitter Applications.

Maximum Working Determined by the seal threads.

Pressure

4", 4.5", & 6" Gauges

Transmitter (Gauge Pressure)

Transmitter

(Differential Pressure)

1.0" MAX DSTF05 1/2" NPT DIAPHRAGM 2.0" MAX 1.8" DSTF75 3/4" NPT DIAPHRAGM 2.0" MAX 2.6" DSTF10 1" NPT DIAPHRAGM 2.3" MAX 2.6" DSTF15 1-1/2" NPT DIAPHRAGM

HOW TO ORDER: Choose options to build a part number. For example: DSTF75SS4-DTD-AS-OX

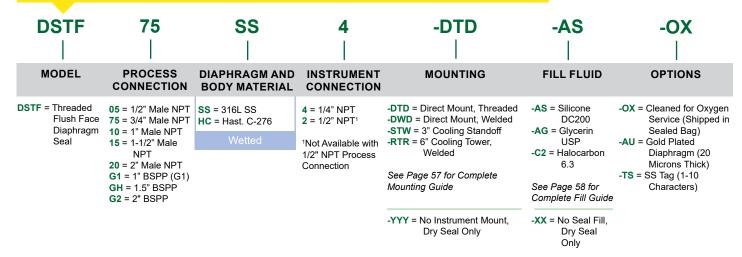
100 psi

10 psi*

30 psi

5 psi

n/a



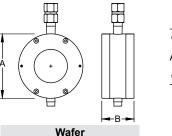


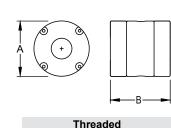
ISOLATION RING FLOW THRU SEAL



Temperature Limits

The REOTEMP Isolation Ring Flow Thru Seal boasts an In-Line Flow-Thru design ideal for waste water, slurries, or abrasives. Mounted between pipe flanges or threaded in-line, it has a tough but sensitive elastomer lining. One unique feature of this seal is the ability to mount multiple instruments on one seal.



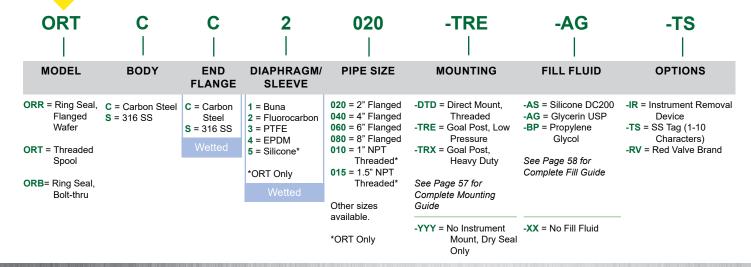


SPECIFICATIONS						
Materials	Body: Carbon St	teel, 316 SS				
Wetted Materials	End Flange: Carbon Steel, 316 SS. Diaphragm/Sleeve: Buna-N, PTFE EPDM, Natural Rubber and more.					
Process Temperature Limits		Sleeve Material	Limit			
remperature Limits		Buna-N	225°F			
		Fluorocarbon	400°F			
		PTFE	350°F			
		Silicone	450°F			
		EPDM	300°F			
	Natural Rubber 212°F					
Ambient	Determined by the pressure instrument.					

Туре	Nominal Pipe Size	А	В	Approx. Weight (lbs)
	2"	4"	2"	4
Iso-Ring	4"	6.75"	1.5"	8
(Wafer)	6"	8.63"	1.5"	10
	8"	10.88"	1.5"	15
Iso-Spool	1" NPT	3"	3.25"	10
(Threaded)	1-1/2" NPT	3.5"	3.25"	12

Red Valve brand is available if the application requires. Choose **-RV** as option code. Red Valve dimensions may differ from above.

HOW TO ORDER: Choose options to build a part number. For example: ORTCC2020-TRE-AG-TS





Series MS

WELDED MINI-SEAL

REOTEMP Welded Mini Seals are ideal for applications where a gauge or general purpose transmitter cannot be installed directly into the process media. REOTEMP mini seals are a one-piece, all-welded construction that offer a durable, economical choice for protecting a pressure instrument from corrosion, clogging, or high process temperatures.







MS4G

MS6G

MS8Q

SPECIFICATIONS

Materials	Upper Housing: 316 SS.
	Diaphragm: 316 SS Hast C-276, Monel.
	Lower Housing: 316 SS, Hast C-276, Monel

Process

Temperature Limits

MS4	-40°F/300°F
MS6/7	-40°F/400°F
MS8	-110°F/750°F

Ambient Temperature Limits

Determined by the pressure instrument.

Minimum

Recommended

Pre	ssure Ranges	MS4	MS6	MS7	MS8
	2.5" & 3.5" Gauges	30 psi	15 psi	10 psi	15 psi
	4", 4.5", & 6" Gauges	n/a	60 psi	15 psi	30 psi
	Transmitter (Gauge Pressure)	15 psi	10 psi	100" WC	150" WC
	Transmitter (Differential Pressure)	n/a	n/a	150" WC	300" WC

Maximum Working

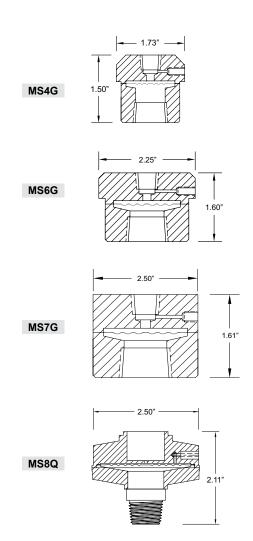
Pressure at 100°F		316SS	Hast-C	Monel	
	MS4	2,000 psi	1,000 psi	2,000 psi	
MS6		1,000 psi	N/A	N/A	
	MS7	750 psi	750 psi	N/A	
	MS8 (1/4 or 1/2" connectors)	5,000 psi	2,000 psi	2,000 psi	
	MS8 (3/4" or 1")	2,000 psi	N/A	N/A	

Weight

MS4	.2 lbs
MS6	.4 lbs
MS7	.6 lbs
MS8	.8 lbs

FEATURES / BENEFITS

- Economical Choice for Protecting a Pressure Instrument from Severe Process Media
- All-welded Design Reduces Fugitive Emission Leaks
- Available with PulsePlus™ Pulsation Dampening
- Tamper Resistant



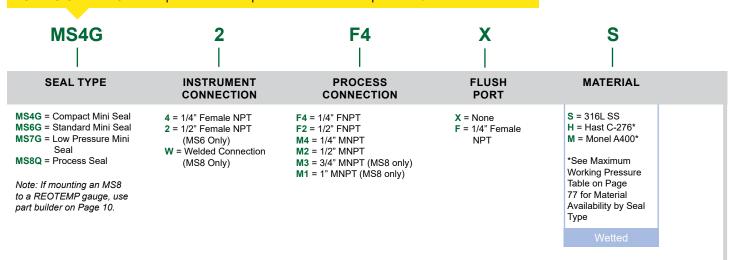
Height and dimensions may change with alternate process connections and/or flush ports.

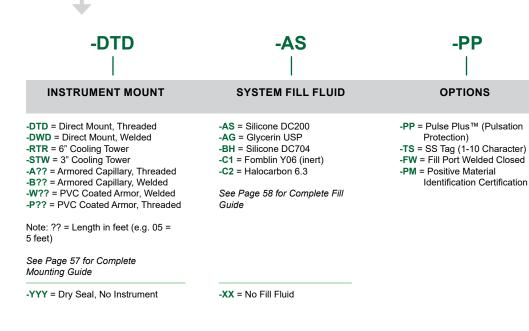
Series MS



WELDED MINI-SEAL

HOW TO ORDER: Choose options to build a part number. For example: MS4G2F4XS-DTD-AS-PP







Using a REOTEMP Gauge? If mounting an MS8 to a REOTEMP gauge, use the part builder on Page 10 or the online configurator at reotemp.com/configurators



Series DSTC

SANITARY TRI-CLAMP® DIAPHRAGM SEAL



DSTC15

mount and fill a variety of instruments to Tri-Clamp seals including Digital Pressure Gauges, Transmitters, and Switches. All Sanitary Diaphragm Seal Assemblies manufactured by Reotemp are 3-A Certified.

Type

A

Type B

Process Connection 3/4"* 1.5" 2" 2.5" 3" 4"

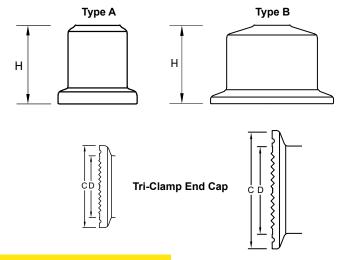
Type A			Type B		
3/4"*	1.5"	2"	2.5"	3"	4'
1"	2"	2.5"	3.1"	3.6"	4.7"
.65"	1.4"	1.9"	2.2"	2.5"	3.6"
1'	1.3"	1.3"	1.3"	1.3"	1.6"
	A 3/4"* 1" .65"	3/4"* 1.5" 1" 2" .65" 1.4"	A 3/4"* 1.5" 2" 1" 2.5" 2.5" 65" 1.4" 1.9"	A 1.5" 2" 2.5" 1" 2" 2.5" 3.1" 65" 1.4" 1.9" 2.2"	A 1ype B 3/4"* 1.5" 2" 2.5" 3" 1" 2" 2.5" 3.1" 3.6" .65" 1.4" 1.9" 2.2" 2.5"

REOTEMP's Sanitary Tri-Clamp® Diaphragm Seals are ideal for applications in the food and beverage, dairy, and pharmaceutical industries or wherever Tri-Clamp connections are used. Reotemp will

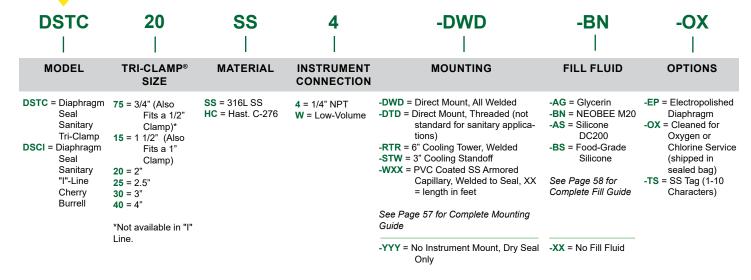
*DSTC75 ONLY

Note: Height is subject to change based on the adapter required to fit instrument to seal.

SPECIFICATIONS								
Materials	,	Body: 316L SS Diaphragm: 316L SS						
Process Temperature Limits	6							
Process Connection	3/4"	1.5"	2"	2.5" & 3"				
Temperature Limit	0/150°F	-40/250°F	-40/400°F	-40/750°F				
Ambient Temperature Limits	Determined by the pressure instrument.							
Wetted Surface Finish	18-24 Ra							



HOW TO ORDER: Choose options to build a part number. For example: DSTC20SS4-DWD-BN-OX



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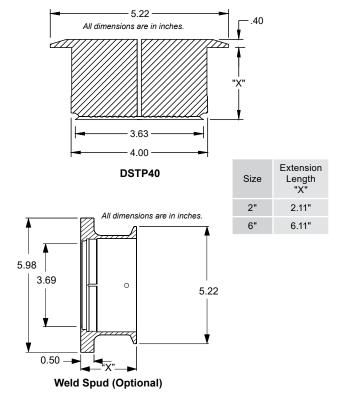


SANITARY TANK SPUD DIAPHRAGM SEAL

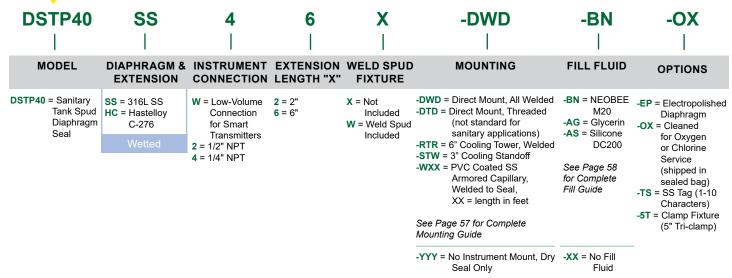


REOTEMP's Sanitary Tank Spud Diaphragm Seals are ideal for applications in the food and beverage, dairy, and pharmaceutical industries. Reotemp will mount and fill a variety of instruments to Tank Spud Diaphragm Seals including Digital Pressure Gauges, Transmitters, and Switches.





HOW TO ORDER: Choose options to build a part number. For example: DSTP40SS46X-DWD-BN-OX



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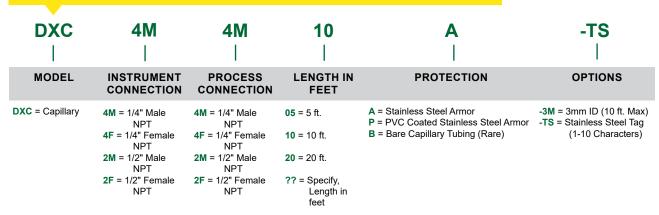


DIAPHRAGM SEAL ACCESSORIES



- Used When Pressure Instrument Needs to be Removed from Direct Contact of Installation Point
- All-welded 316SS Construction
- · Available up to 100 ft. in Length (Max 40 ft. in diaphragm seal assembly)
- Max Working Pressure of 10,000 psig
- 2mm ID Standard
- Note: if capillary is part of a filled diaphragm seal system use 3 digit mounting code per page 57 (Example: "A25" = 25' of armored capillary, threaded to seal)

HOW TO ORDER: Choose options to build a part number. For example: DXC4M4M10A-TS



FLUSH RINGS



- Used to Flush Process Fluid or Provide Access for Field Calibrations
- Machined from Solid Bar Stock
- Pressure Ratings Up to ANSI Class 2500
- For Use with W9FF and W9FR Diaphragm Seals (Raised Face)

HOW TO ORDER: Choose options to build a part number. For example: DXFR322S-PM





OTHER DIAPHRAGM SEAL TYPES



REOTEMP provides many special use and custom diaphragm seals. Consult customer service for specific application assistance.

FLANGED FLOW THRU



SADDLE WELD



WEDGE TYPE



PULP/PAPER



THREADED FLOW THRU



OTHER SERVICES

- Remote Seal Assembly Repair
- Hydrostatic Testing
- Positive Material Identification
- Custom Diaphragm Seal Design



DIAPHRAGM SEAL OPTIONS



N/A Indicates the option is not available

- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Download PDF Data Sheets

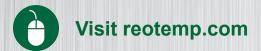
		MS4 MS6 MS8	W5 W6 W7	T5 T6 V5	W9FF W9FR	W9XT	W9FP	DSTC75	DSTC15 AND LARGER	DSTF05	DSTF75 AND LARGER	OR	DXFR
	PULSATION PROTI											,	
-PP	Pulse Plus™	√	√	✓	✓	√	N/A	N/A	✓	N/A	✓	√	N/A
	0.1181.1.181.1			21/2		AGM CO						21/2	21/2
-AU	Gold Plated Diaphragm	N/A	√	N/A	√	√	√	✓	✓	√	*	N/A	N/A
-TC	Teflon Coated Diaphragm PTFE	N/A	√	N/A	√	√	√	N/A	· ·	N/A	✓	N/A	N/A
-EP	Electropolished Diaphragm	N/A	N/A	N/A	N/A	N/A	N/A	✓	√	✓	✓	N/A	N/A
F14/	ETTP AWALLED	OTD1				FILL				,		N1/A	N1/A
-FW	Fill Port Welded Closed	STD ¹	√	✓ N//A	√	√	√	✓ N//0	√	✓ N//A	√	N/A	N/A
-VF	Fill for Vacuum Service	N/A	√	N/A	✓	√	√	N/A	√	N/A	✓	N/A	N/A
		1 ,	1 ,			NG AND I							
-DG	Degreased, Shipped in Sealed Bag	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	N/A	✓
-OX	Cleaned for Oxygen Service per ASME B40.1	✓	✓	N/A	✓	✓	✓	✓	✓	✓	✓	N/A	✓
-OY	Cleaned for Oxygen Service per MIL-STD-1330D	✓	✓	N/A	✓	✓	✓	✓	✓	✓	✓	N/A	✓
					PLUG FO	R FLUSI	PORT						
-GS	1/4" SS Plug Installed	STD	STD	STD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
-JS	1/2" SS Plug Installed	N/A	STD	STD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
-GH	1/4" Hast C Plug Installed	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
-JH	1/2" Hast C Plug Installed	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
-GM	1/4" Monel Plug Installed	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
-JM	1/2" Monel Plug Installed	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
					TA	G OPTIO	N						
-TS	Stainless Steel Tag (1-10 Characters)							✓					
-TM	Stainless Steel Tag (11-80 Characters)							✓					
-TP	Paper Tag							✓					
				C	ERTIFIC	ATION O	PTIONS						
-NC	Certificate of NACE Compliance	✓	✓	N/A	✓	✓	✓	N/A	N/A	✓	✓	N/A	✓
-CM	General Material Conformance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-MR	MTR - Mill Test Report Certificate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A	✓
-PM	PMI - Positive Material Identification Certificate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A	✓
-HT	Hydrostatic Test per ASME B31.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
-HL	Helium Leak Test Certificate	✓	✓	N/A	✓	✓	✓	✓	✓	✓	✓	N/A	N/A
✓	Indicates that the option is available								¹ S	Standard on N	/IS8, available	e on MS	4 & MS6.

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Diaphragm Seals



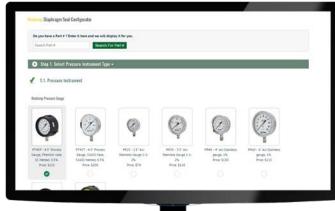
DIAPHRAGM SEAL CONFIGURATOR



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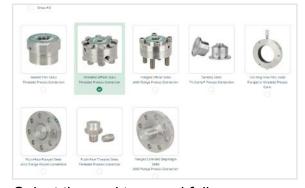


Select the instrument.



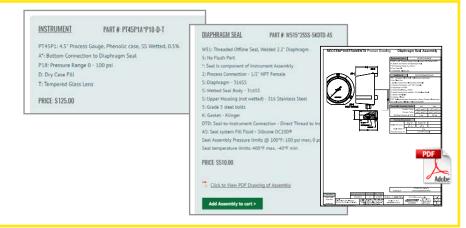


Select the mounting style.



Select the seal type and follow our easy guided steps.

- ✓ Part Number and **Description of Assembly** with Price
- ✓ Engineering Drawing of Assembly
- ✓ Easily Save your Quote and Put in a Purchase Request





INSTRUMENT VALVES & MANIFOLDS



Design: REOTEMP offers a full line of USA made instrument valves and manifolds. Whether your need is to safely remove instrumentation, pressure check or calibrate your process, test differential gauges/transmitters, or throttle flow in the system Reotemp has a valve to suit your application.

Quality: REOTEMP is a globally recognized ISO 9001:2008 manufacturer of pressure instrumentation. All instrument valves conform to MSS SP-99 standards, and all valves with packing conform to MSS SP-132 packing standards. All valves and manifolds are helium leak checked to 1 x 10-4 ml/s for ultimate performance. REOTEMP warrants all US made valves against defective workmanship or materials under normal use and service for three years following the date of shipment.

Additional Testing Services: Other in-house services include Mill Test Reports (MTRs), Positive Material Identification (PMI), Hydrostatic Testing, and Oxygen Cleaning (O_2) .

Configurations: Standard body materials include 316SS and zinc-plated carbon steel. Other non-standard materials are available upon request and may require a custom design and build. Various connections sizes are available from 1/8" - 2" NPT on most needle valve configurations. Gauge valves are available with connections from 1/4" - 3/4" NPT.

Instrument/Valve Mounting Options:

REOTEMP offers in house mounting services by pre-installing pressure instrumentation on valve assemblies prior to shipping to allow for quick and easy installation. REOTEMP mounting services are available when mounting your REOTEMP pressure instrument to a REOTEMP gauge valve, or when mounting a REOTEMP differential pressure gauge on a 3 or 5 valve manifold. Select from a variety of options and orientations.





85 (800) 648-7737 sales@reotemp.com reotemp.com PTC-0719

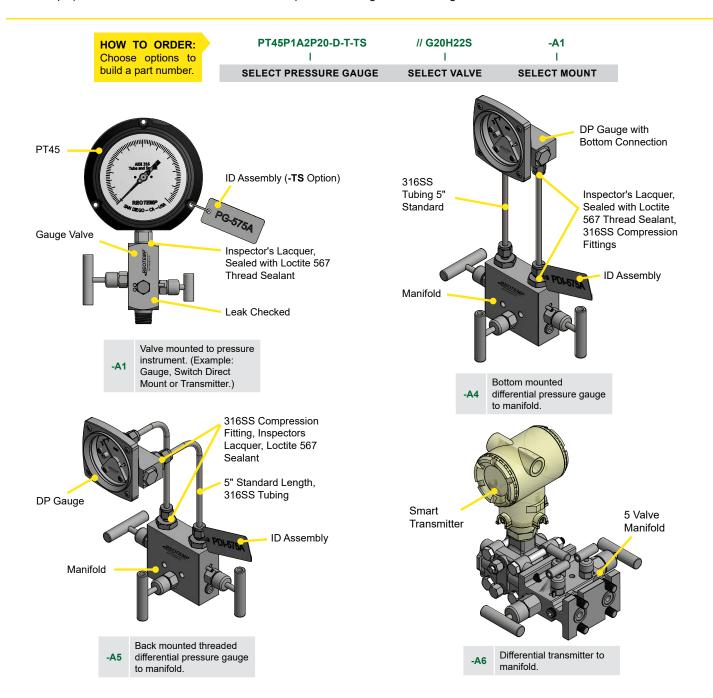
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INSTRUMENT & VALVE ASSEMBLIES

REOTEMP offers in house mounting services by preinstalling pressure (or dP) instrumentation on valve assemblies prior to shipping to allow for stress free/easy installation. Select from a variety of standard designs or contact your REOTEMP customer service representative to design a custom assembly to suit your desired application.

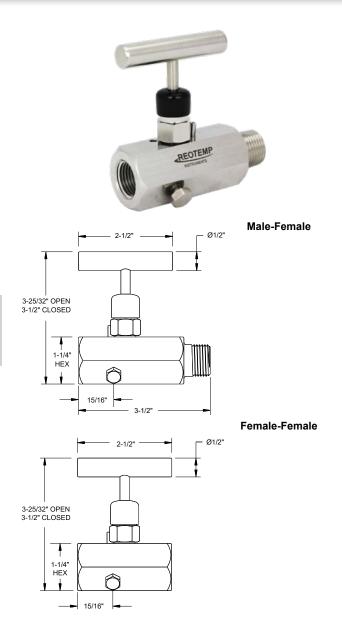
- ✓ Inspector's Lacquer & Threads Sealed with Loctite 567™
- √ 100% Argon Leak Checked (Maximum 1,000 psi)
- ✓ Optional ID Tag for Complete Assembly
- ✓ Packaged for Out of Box Installation
- ✓ DP Assemblies Mounted with 316SS Compression Fittings & 316 Tubing
- ✓ To Customize Your Design Contact REOTEMP Customer Service



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SINGLE VALVE BLOCK & BLEED

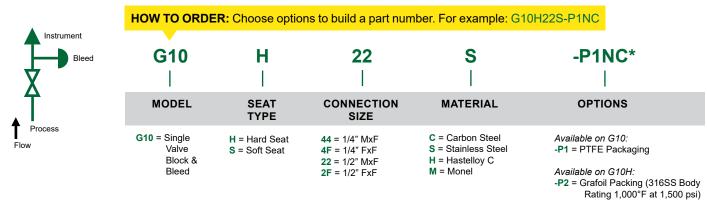


REOTEMP's single valve block and bleed allows users to isolate pressure to their instrument, bleed off excess process, and remove an instrument without disturbing or shutting down the system. A variety of options are available to suit just about every application.

FEATURES / BENEFITS

- 0.090" Bleed Hole Controlled by a 1/4"-20 UNF-2A Bleed Screw
- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard with Delrin Seat
- · PTFE or Grafoil Packing Optional
- All Stems are 316SS
- Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- Rolled Threads for Strength Durability, and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

SPECIFICATIONS					
Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel				
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.				
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 97 for More Detailed Information.				
Orifice	0.187"				
Flow	Hard Seat C _v : 0.44, Soft Seat C _v : 0.76				
Connections	1/4" or 1/2"				

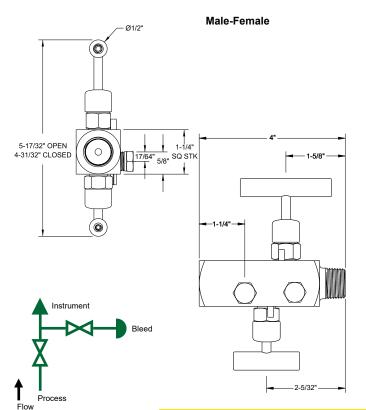


*See 98 for Additional Options



2-VALVE BLOCK & BLEED





REOTEMP's 2-Valve Block & Bleed allows users more options to control their venting. The secondary valve bleeds process through 1/4" FNPT port giving the user the ability to vent to atmosphere or capture the process by directly piping to the valve body.

FEATURES / BENEFITS

- 1/4" FNPT Bleed Port
- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat comes Standard with Delrin Seat
- · PTFE or Grafoil Packing Optional
- · All Stems are 316SS
- · Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- Rolled Threads for Strength, Durability, and Ease of Use
- · All Valves are Helium Leak Tested for Optimal Performance

SPECIFICATIONS

Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 97 for More Detailed Information.
Orifice	0.187"
Flow	Hard Seat C _v : 0.44, Soft Seat C _v : 0.76
Connections	1/4" or 1/2"

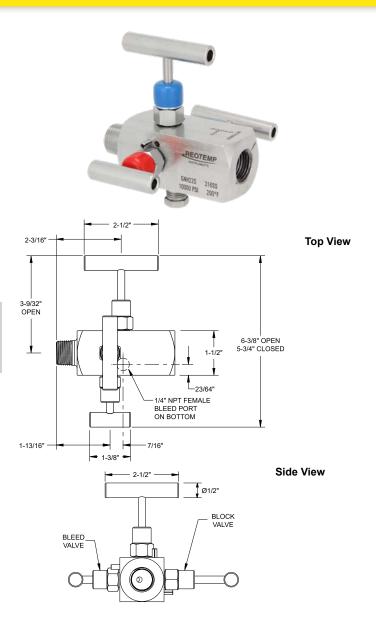
HOW TO ORDER: Choose options to build a part number. For example: G20H22S-P2NC

G20	H 	22 	S 	-P2NC*
MODEL	SEAT TYPE	CONNECTION SIZE	MATERIAL	OPTIONS
G20 = 2-Valve Block & Bleed	H = Hard Seat S = Soft Seat	44 = 1/4" MxF 4F = 1/4" FxF 4R = 1/4" FxM 22 = 1/2" MxF 2F = 1/2" FxF 2R = 1/2" FxM	C = Carbon Steel S = Stainless Steel H = Hastelloy C M = Monel	Available on G10: -P1 = PTFE Packaging -EX = Extended Valve Body Available on G10H: -RV = Right Vent -P2 = Grafoil Packing (316SS Body Rating 1,000°F at 1,500 psi)

*See 98 for Additional Options



DOUBLE BLOCK & BLEED

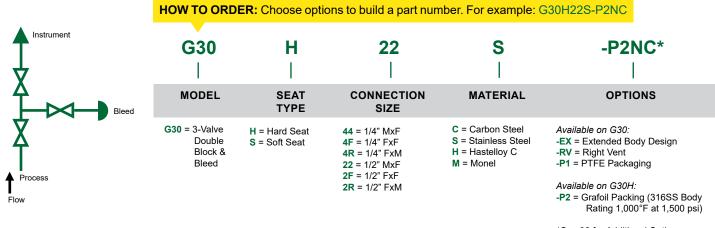


REOTEMP's Double Block & Bleed allows users more options to control their venting as well as added safety when removing instruments. This valve features an additional shutoff valve between the vent and the instrument. A bleed valve allows users to bleed the process through a 1/4" FNPT port, giving the ability to vent to atmosphere or capture the process by directly piping to the valve body.

FEATURES / BENEFITS

- 1/4" FNPT Bleed Port
- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling
- · PTFE or Grafoil Packing Optional
- All Stems are 316SS
- · Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- · Rolled Threads for Strength, Durability, and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

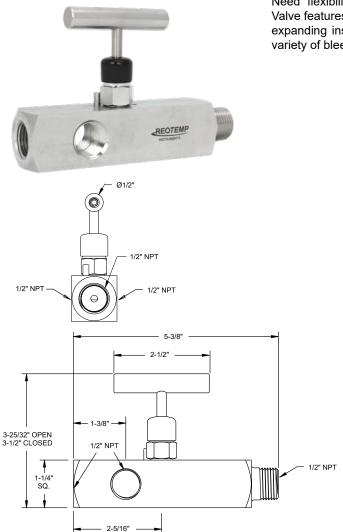
SPECIFICATIONS							
Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel						
Pressure Rating	Hard Seat - 10,000 psi at 200°F						
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 97 for More Detailed Information.						
Orifice	0.187"						
Flow	Hard Seat C _v : 0.44						
Connections	1/4" or 1/2"						



*See 98 for Additional Options

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MULTIPORT BLOCK & BLEED



Gauge

Need flexibility when installing your instruments? REOTEMP's Multiport Gauge Valve features a single shutoff along with three individual 1/2" FNPT instrument ports expanding instrument installation and venting options. The user can select from a variety of bleeds, valves, and plugs to obtain their desired setup.

FEATURES / BENEFITS

- 3 1/2" FNPT Instrument Ports
- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard With Delrin Seat
- PTFE or Grafoil Packing Optional
- All Stems are 316SS
- Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- · Rolled Threads for Strength, Durability, and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

SPECIFICATI	ONS
Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 97 for More Detailed Information.
Orifice	0.187"
Flow	Hard Seat C _v : 0.44, Soft Seat C _v : 0.76
Connections	1/2" or 3/4"

Instrument **G40** S Н 22 -HPBP* Gauge CONNECTION **MATERIAL** MODEL **SEAT OPTIONS TYPE** SIZE G40 = Multiport C = Carbon Steel Available on G40: H = Hard Seat 22 = 1/2" M x (3) Gauge 1/2" F S = Stainless Steel -HP = Hex Plug S = Soft Seat Valve 23 = 3/4" M x (3) H = Hastelloy C -BP = Bleed Plug M = Monel -BV = 1/2" Bleed Valve 1/2" F -P1 = PTFE Packaging

HOW TO ORDER: Choose options to build a part number. For example: G40H22S-HPBP

-P2 = Grafoil Packing (316SS Body Rating 1,000°F at 1,500 psi)

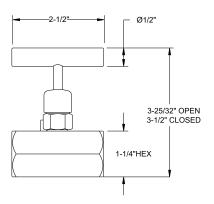
* See 98 for Additional Options

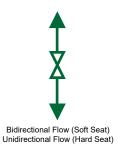
Available on G40H:



NEEDLE VALVES







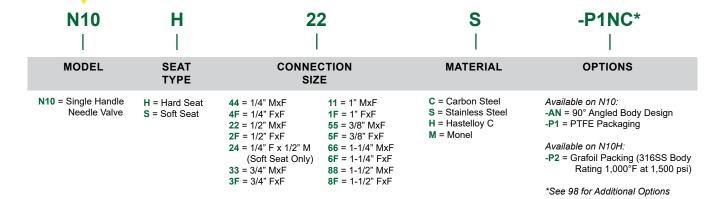
REOTEMP needle valves allow users to isolate pressure to their instrument and remove the instrument without disturbing or shutting down the system. A variety of options are available to suit just about every application.

FEATURES / BENEFITS

- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard With Delrin Seat
- PTFE or Grafoil Packing Optional
- All Stems are 316SS
- · Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- Rolled Threads for Strength, Durability, and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

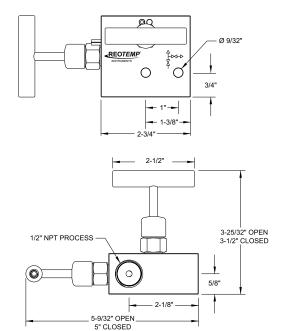
SPECIFICATIONS						
Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel					
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.					
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 97 for More Detailed Information.					
Orifice	1/4" – 1/2"NPT: 0.187", 3/4" – 1-1/2"NPT: 0.438"					
Flow	Hard Seat: $1/4" - 1/2"$ NPT: C_v 0.44, $3/4" - 1-1/2"$ NPT: C_v 2.70 Soft Seat: $1/4" - 1/2"$ NPT: C_v 0.76, $3/4" - 1-1/2"$ NPT: C_v 4.0					
Connections	1/4", 3/8" 1/2", 3/4", 1", 1-1/4" & 1-1/2"					

HOW TO ORDER: Choose options to build a part number. For example: N10H22S-P1NC







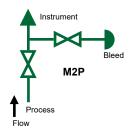


REOTEMP's 2-Valve Manifold has a variety of designs and can be used with just about any instrument. One available design has an isolation valve along with a valve controlling the 1/2" FNPT vent. A single block design is available with two isolation valves used in DP applications.

FEATURES / BENEFITS

- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard with Delrin Seat
- PTFE or Grafoil Packing Optional
- All Stems are 316SS
- Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- Rolled Threads for Strength, Durability and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

SPECIFICATIONS							
Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel						
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.						
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 97 for More Detailed Information.						
Orifice	0.187"						
Flow	Hard Seat C_V : 0.44, Soft Seat C_V : 0.76						
Connections	Available in block, single flange, or double flange connection for remote or direct installation						



M₂P NNS -M1NC* Н CONNECTION **MATERIAL** MODEL **SEAT OPTIONS TYPE** SIZE **M2P** = 2-Valve C = Carbon Steel H = Hard Seat **NN** = 1/2" F x 1/2" F Available on Hard & Soft Seat: Manifold Static S = Soft Seat S = Stainless Steel -M1 = 2" CS Pipe Mounting Kit -M2 = 2" SS Pipe Mounting Kit H = Hastelloy C Pressure M = Monel Other 2-Valve

HOW TO ORDER: Choose options to build a part number. For example: M2PHNNS-M1NC

Manifolds Available -P2 = Grafoil Packing (316SS Body Rating 1,000°F at 1,500 psi)

*See 98 for Additional Options

Available on Hard Seat ONLY:

PTC-0719 (800) 648-7737 sales@reotemp.com 92 reotemp.com





Flange-Flange

Female-Female

REOTEMP's 3-Valve Manifold can be mounted to differential pressure gauges as well as differential transmitters. This manifold features two isolation valves and an equalizing valve.



- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard with Delrin Seat
- · PTFE or Grafoil Packing Optional
- · All Stems are 316SS
- Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- · Rolled Threads for Strength, Durability and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

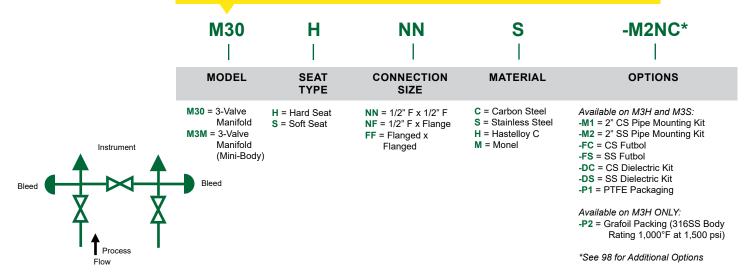






Body Material 316 Stainless Steel, Zinc-nickel Plated Carbon Steel Pressure Rating Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F. Orifice 0.187" Flow Hard Seat C_V: 0.44, Soft Seat C_V: 0.76 Connections Available in block, single flange, or double flange connection for remote or direct installation

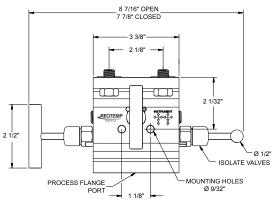
HOW TO ORDER: Choose options to build a part number. For example: M30HNNS-M2NC



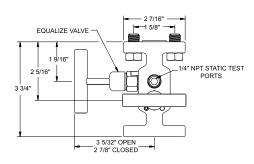




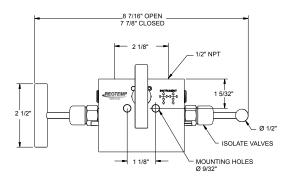
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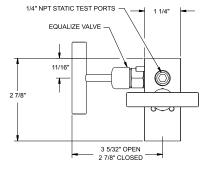
Flange-Flange (Top View)



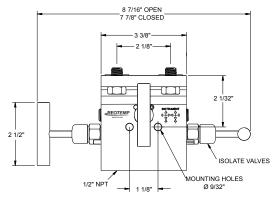
Flange-Flange (Side View)



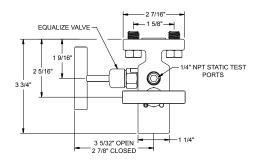
Female-Female (Top View)



Female-Female (Side View)

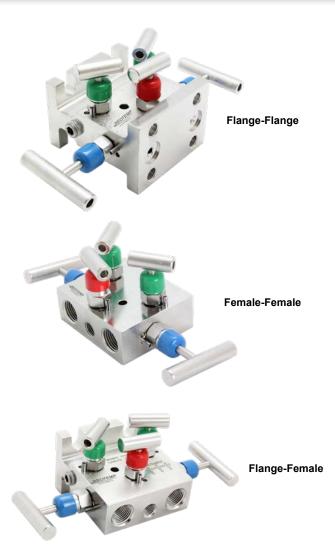


Flange-Female (Top View)



Flange-Female (Side View)





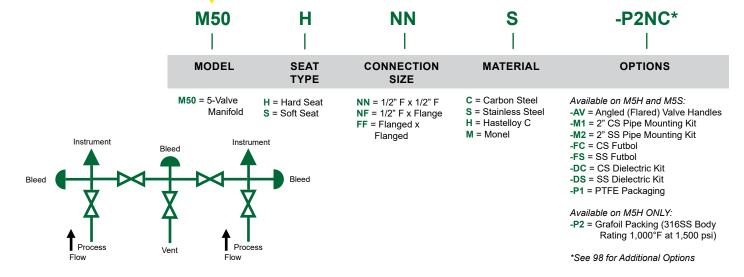
REOTEMP's 5-Valve Manifold can be mounted to differential pressure gauges as well as differential transmitters. This manifold features two isolation valves, two equalizing valves, and a bleed valve.

FEATURES / BENEFITS

- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard with Delrin Seat
- · PTFE or Grafoil Packing Optional
- · All Stems are 316SS
- Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- · Rolled Threads for Strength, Durability, and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance
- · Optional Angled Equalizing Valves for Ease of Use

SPECIFICATIONS				
Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel			
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.			
Orifice	0.187"			
Flow	Hard Seat C _v : 0.44, Soft Seat C _v : 0.76			
Connections	Available in block, single flange, or double flange connection for remote or direct installation			



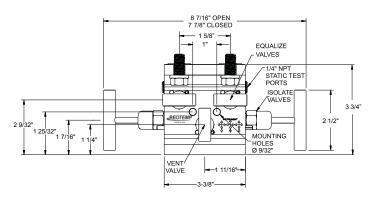


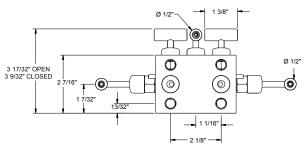




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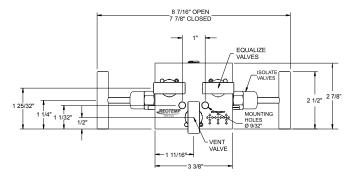
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Flange-Flange (Top View)

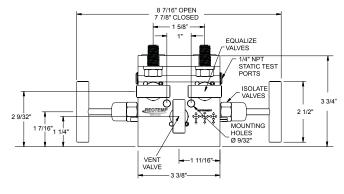
Flange-Flange (Side View)

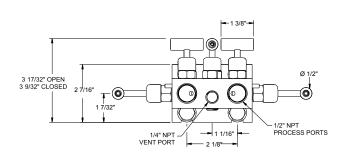


2 15/16° OPEN 2 11/16° CLOSED 1-1/4° 5/8° 15/32° 1/4° NPT STATIC TEST PORTS 1/4° NPT 11/16° PROCESS PORTS VENT 2 1/8° PROCESS PORTS

Female-Female (Top View)

Female-Female (Side View)





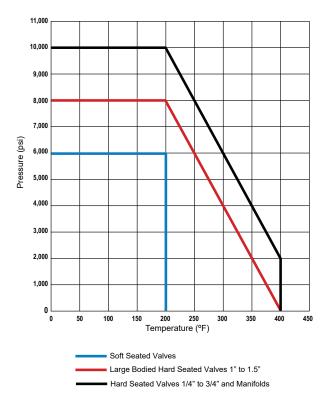
Flange-Female (Top View)

Flange-Female (Side View)

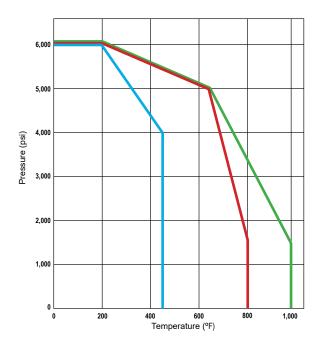


VALVE TEMPERATURE RATING & OTHER VALVES

INSTRUMENT VALVES & MANIFOLDS PRESSURE VS. TEMPERATURE: FKM O-RING



INSTRUMENT VALVES & MANIFOLDS PRESSURE VS. TEMPERATURE: GRAFOIL & PTFE PACKING



Carbon Steel or Stainless Steel Valves and Manifolds with PTFE Packing
Carbon Steel Valves and Threaded Manifolds with Grafoil Packing
Stainless Steel Valves & Threaded Manifolds with Grafoil Packing

BALL VALVE



GAUGE COCK



PRESSURE LIMITING VALVES





Instrument Valves & Manifolds



VALVE OPTIONS



- ✓ Check Stock
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		G10	G20	G30	G40	N10	M2PH	M2PS	M2LH	M2LS	M2M	M30H	M30S	мзм	M50H	M50S
						PACKIN	IG/O-RIN	IGS								
P1	PTFE Packing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P2	Grafoil Packing	Н	Н	Н	Н	Н	✓	N/A	✓	N/A	✓	✓	N/A	N/A	✓	N/A
P3	EPDM O-Ring	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	✓	N/A	N/A
P4	FFKM (Kalrez 3018) O-Ring	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	✓	N/A	N/A
P5	NBR O-Ring	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	✓	N/A	N/A
	SOFT SEATS															
S1	PEEK	S	S	S	S	S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
S2	PCTFE	S	S	S	S	S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
						STI	EM TIPS									
T1	Non-Rotating SS Stem Tip	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
T5	Ball (440C Stainless) Stem Tip	Н	Н	Н	Н	Н	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T6	Ball (Carbide) Stem Tip	Н	Н	Н	Н	Н	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T7	Ball (Ceramic) Stem Tip	Н	Н	Н	Н	Н	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T8	Ball (Monel) Stem Tip	Н	Н	Н	Н	Н	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
Т9	Regulating Hard Stem Tip	Н	Н	Н	Н	Н	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
					M	OUNTI	NG OPT	IONS								
M1	CS 2" Pipe Mounting Bracket	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
M2	SS 2" Pipe Mounting Bracket	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
М3	1 Nut	✓	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M4	2 Nuts	✓	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
						E	KTRAS									
NC	NACE Compliance MR0175*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ОХ	Cleaned for O2 Service	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IH	Internal Hydrostatic Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PM	Positive Material ID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EX	Extended Body Design	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RV	Right Vent	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HP	1/2" Hex Plug	N/A	N/A	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP	1/2" Bleed Plug	N/A	STD	STD	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BV	1/2" Bleed Valve	N/A	N/A	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AN	90° Angled Body Design	N/A	N/A	N/A	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FC	CS Futbol	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FS	SS Futbol	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DC	CS Dielectric Kit	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS	SS Dielectric Kit	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AC	CS Static Adaptors	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AS	SS Static Adaptors	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*Available only on SS, Monel, & Hastelloy C-276 bodies.



REOTEMP Pressure Transmitters and Transducers all convert applied pressure to an electrical signal that can be interpreted by a computer or other interpretive device, where it can be used to display or control a process variable.

Output: REOTEMP transmitters produce either a 4-20 mA signal (the most common output), or a variety of voltage outputs, such as 1-5 Vdc or 0-10 Vdc (3-wire).

Sensors: Piezoresistive diffused semiconductor technology is standard for pressures up to 300 psi. For higher pressures (up to 60,000 psi), sputtered thin film technology is used. These sensors are very stable, shock resistant, and durable. Our piezoresistive and thin-film sensors are made with no epoxies or bonding agents, virtually eliminating signal instability or drift.

Unit Integrity: Sensor durability, along with mechanical integrity of the stainless case and all-welded process connection, produce a rugged instrument designed to provide consistent performance under severe industrial conditions.

Accuracy: Accuracies from 0.5% to 0.1% are available. Each unit is temperature compensated to provide stable accuracy over large ambient variations and long periods of time.

Ready-to-go: Each REOTEMP transmitter is inspected and calibrated prior to shipment to assure it is 100% "Ready-to-go," right out of the box!

Large Transmitter Stock: REOTEMP stocks many transmitter models in a large variety of ranges. However, the most popular output is the 4-20 mA output.

Transmitter or Transducer? "Transmitter" is often used when referring to a pressure sensor with variable current (mA) output, whereas "Transducer" usually implies voltage output. For simplicity, we use the term "transmitter" for all sensors offered in this catalog.

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SELECTING A TRANSMITTER

Consider the following issues to choose the best pressure transmitter for your application:

1. Special Applications

Series **TG** (general purpose transmitter) is a good choice for general industrial applications. For special applications or circumstances, other models will be more suitable:

High Accuracy	тн	Choose series TH for up to 0.125% accuracy (BFSL). For reference, the standard TG accuracy is 0.5%.				
Hazardous Environments	TE	Series TE for explosion proof environments and THX for intrinsically safe.				
Total Submersion	TL	Choose series TL.				
Clogging Media	TG	Consider series TG mounted to a diaphragm seal.				
Sanitary Appications	TS	Choose series TS , which comes with a sanitary Tri-clamp connection.				
Low Cost	TM	For OEM use or for applications where low cost is a necessity, consider series TM .				

2. Pressure Range & Overpressure

Choose a range that places your working pressure at 50% to 90% of the transmitter pressure range. After exposure to pressures up to **proof pressure**, the transmitter should return to normal operating performance within specifications. After exposure to pressures **above proof pressure**, **but below burst pressure**, the transmitter may be damaged and not perform to specification after return to operating range. Exposure to **pressure beyond burst pressure** may cause rupture of the transmitter.

3. Accuracy

Series **TG**, with 0.5% BFSL accuracy, and with 0.05% repeatability, suits many industrial applications. Higher accuracies (0.25% and 0.1%) are available, generally at higher cost.

What is BFSL? BFSL is "Best Fit Straight Line". It expresses maximum deviation from a straight line positioned to minimize maximum deviation.

4. Output

Current output (4 mA to 20 mA) is the most popular for industrial use. This is because this output range is less susceptible to electrical noise and can be transmitted through copper wires up to thousands of feet with little signal loss. Several voltage outputs are also available, and are suitable for shorter distances. Typical **voltage outputs** include 0-5 Vdc, 1-5 Vdc, and 0-10 Vdc.

5. Process Connection

 $\frac{1}{2}$ " NPT and $\frac{1}{2}$ " NPT are the most common connections in industrial process applications. In hydraulic applications, 7/16-20 UNF SAE male with o-ring seal is commonly used. For sanitary applications, Tri-clamp connections on the **TS** series are available in several sizes, with 1- $\frac{1}{2}$ " Tri-clamp the most common.

6. Electrical Connection

All REOTEMP transmitters require wire hookup for both power and output. 4-20 mA output uses 2 wires, which carry both loop power and output signal (loop current). Voltage output usually uses three wires, with 4 wires available. The standard Hirschmann connector (Din 43650) in standard or mini-size allows easy connection to 2, 3 or 4 wires, with internal screw terminals and cable gland. Also available are sealed integral cable (with or without ½" NPT male conduit threads), Bendix 4- and 6-pin, and M12 types, as well as a Hirschmann with ½" NPT female conduit connection.

7. Severe Conditions

REOTEMP transmitters are rugged instruments intended for industrial use. However, temperatures, corrosion, vibration, or pulsation beyond operational limits should be addressed to prolong the life of the instrument:

Problem	Solution
High Process Temperature	Temperature at the instrument can be lowered by using a dead-leg extension. For high temperature with clogging media, a diaphragm seal with capillary or a cooling tower can also be used.
High Ambient Temperature	The instrument can be removed from the hot zone using piping, tubing, or capillary with a diaphragm seal.
Corrosive Media	A chemically compatible diaphragm seal can isolate the transmitter form the corrosive media.
Pulsation	Pressure fluctuations in an incompressible fluid can cause damaging pulsation (such as water hammer). This is a common cause of failure in pressure transducers, and measures should be taken to avoid this condition. Use of a snubber or restrictor screw (threaded orifice) should be considered.

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Series TG

GENERAL PURPOSE TRANSMITTER

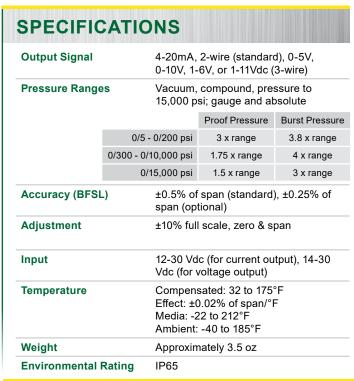






FEATURES / BENEFITS

- 0.5% or 0.25% Accuracy
- · All-stainless Welded Body and Wetted Parts
- 4-20 mA or Voltage Output
- Rugged, with Protection from Shock, Over-range, and Over-voltage, Internals Potted in Silicone Gel
- · Internal Zero and Span Adjustments





HOW TO ORDER: Choose options to build a part number. For example: TG1P181A4A00-TS

TG1	P18	1	A 	4 	A00 	-TS
MODEL	RANGE	ACCURACY	OUTPUT SIGNAL	PROCESS CONNECTION	ELECTRICAL CONNECTION	OPTIONS
TG1 = General Purpose Transmitter	See Transmitter Technical Reference on 108	1 = ±0.5% Full Scale 2 = ±0.25% Full Scale	A = 4-20mA (2-wire) (standard) B = 0-5Vdc (3-wire) C = 1-5Vdc (3-wire) E = 0-10Vdc (3-wire)	4 = 1/4" NPT Male 8 = 1/8" NPT Male F = 1/2" NPT Male Flush Face Diaphragm Seal (60 psi Minimum)	A00 = Mini-Hirschmann, No Cable (DIN EN 175301-803 Form C) A?? = Mini-Hirschmann (?? = ft. of cable) J?? = 1/2" NPT Conduit (?? = ft. of cable) *E00 = 4-pin Bendix *F00 = 6-pin Bendix *M00 = M12 x 1 (4-pin) *Mating connector sold separately.	-RS = Threaded Restrictor screw -TS = Stainless Steel Tag (1-10 Characters) Optional Assembly to Diaphragm Seal Available

Series TM

COMPACT OEM TRANSMITTER





Mini-Hirschmann



FEATURES / BENEFITS

- Reliable, Economical
- 0.5% Accuracy
- 4-20 mA or Voltage Output
- Shock Resistant, High Over-range Protection
- All-stainless Body and Wetted Parts

SPECIFICATIONS

Environmental Rating

Output Signal	4-20mA, 2-wire (standard), 0-10Vdc
	(3-wire)

Vacuum, compound, pressure to **Pressure Ranges**

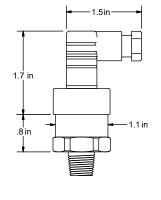
15,000 psi

	Proof Pressure	Burst Pressure
0/5 - 0/200 psi	3 x range	3.8 x range
0/300 - 0/10,000 psi	1.75 x range	2.6 x range
0/15,000 psi	1.5 x range	3 x range

Accuracy (BFSL)	±0.5% of span (standard), includes repeatability, hysteresis and linearity				
Input	10-30Vdc (for current output) 14-30Vdc (for voltage output)				
Temperature	Compensated: 32 to 175°F Effect: ±0.02% of span/°F (on zero and span) Media: -22 to 212°F (-30/100°C) Ambient: -22 to 175°F (-30/80°C)				
Weight	Approximately 2.8 oz				

IP65

1 7 in 1.1 in



TM with Hirschmann

A?? = Mini-Hirschmann, No Cable

(?? = ft. of cable) $*M00 = M12 \times 1 (4-pin)$ *Mating connector sold separately.

TM with Mini-Hirschmann

Note: Dimensions are nominal and may vary. Check with REOTEMP sales if dimensions are critical. Other case styles available. 1/4" NPT Male connection is standard, other connections available.

X = No Display

Characters)

HOW TO ORDER: Choose options to build a part number. For example: TM1P181A4B00P-TS

TM1 **B00** MODEL RANGE ACCURACY **OUTPUT PROCESS ELECTRICAL DISPLAY OPTIONS SIGNAL** CONNECTION CONNECTION $1 = \pm 0.5\%$ Full **4** = 1/4" NPT Male P = Digital Display -RS = Threaded TM = Compact See A = 4-20mA (2-wire) B00 = Hirschmann, No Cable (DIN (Hirschmann OEM Transmitter Restrictor Scale (standard) (Standard) EN 175301-803 Form A) Transmitter Technical **B** = 1-5Vdc (3-wire) 2 = 1/2" NPT Male B?? = Hirschmann (?? = ft. of cable) connection Screw Reference on and 4-20 -TS = Stainless **C** = 1-6Vdc (3-wire) A00 = Mini-Hirschmann, No Cable **E** = 0-10Vdc (3-wire) 108 (DIN EN 175301-803 Form C) output Steel Tag required) (1-10)

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Series TE

EXPLOSION PROOF TRANSMITTER



ΤE



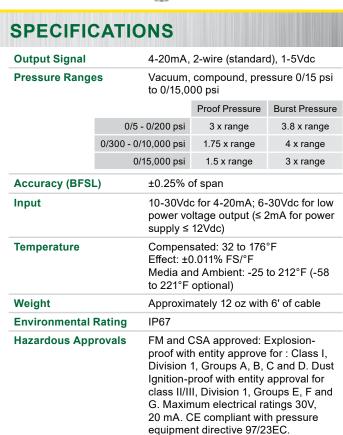


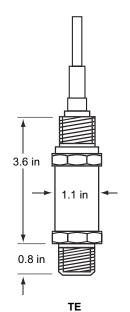


FEATURES / BENEFITS

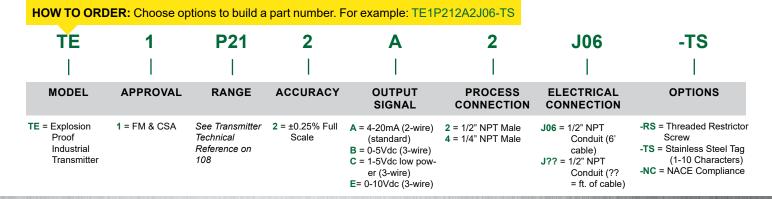
- ±0.25% Full-scale (BFSL) Accuracy
- All 316SS Welded Body and Elgiloy
- 4-20 mA or Low Power Voltage Outputs
- Rugged, with Protection from Shock, Over-range, and Over-voltage, Internals Potted in Silicone Gel







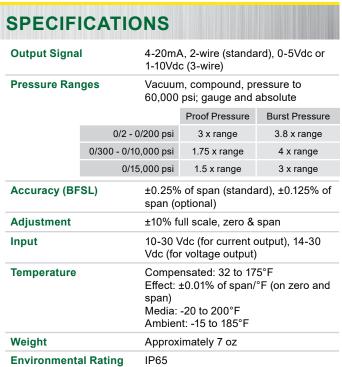
Note: Dimensions are nominal and may vary. Check with REOTEMP sales if dimensions are critical. Other case styles available.





HEAVY DUTY INDUSTRIAL TRANSMITTER







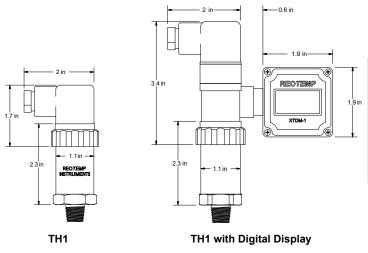






FEATURES / BENEFITS

- 0.25% or 0.12% Accuracy
- · All-stainless Welded Body and Wetted Parts
- · Very Large Pressure Range
- Engineered for High Stability, Shock Resistance, and Durability
- Internal Zero and Span Adjustments



Note: Dimensions are nominal and may vary. Check with REOTEMP sales if dimensions are critical. Other case styles available. 1/2" NPT Male is standard connection, other connections available.

HOW TO ORDER: Choose options to build a part number. For example: TH1P142A4B00P-TS

TH1	P14	2 	A	4 	B00 	P 	-TS
MODEL	RANGE	ACCURACY	OUTPUT SIGNAL	PROCESS CONNECTION	ELECTRICAL CONNECTION	DISPLAY	OPTIONS
TH1 = High-Accuracy Transmitter, CE Compliant THX = Intrinsically Safe, CE Compliant, FM & CSA Approved	See Transmitter Technical Reference on 108	2 = ±0.25% Full Scale 3 = ±0.125% Full Scale	Both Models A = 4-20mA (2-wire) (standard) TH1 ONLY B = 0-5Vdc (3-wire) C = 1-5Vdc (3-wire) E = 0-10Vdc (3-wire)	2 = 1/2" NPT Male (Standard) 4 = 1/4" NPT Male F = 1/2" NPT Male Flush Face Diaphragm Seal (60 psi Minimum) 9 = 9/16-18 UNF 2B Pressure Cone (Equal to F250C Autoclave)	B00 = Hirschmann, No Cable (DIN EN 175301-803 Form A) B?? = Hirschmann (?? = ft. of cable) J?? = 1/2" NPT Conduit (?? = ft. of cable) *F00 = 6-pin Bendix *M00 = M12 x 1 (4-pin) N00 = 1/2" FNPT ISO Flex Conduit *Mating connector sold separately.	P = Digital Display (Hirschmann connection and 4-20 output required) X = No Display	-RS = Threaded Restrictor Screw -TS = Stainless Steel Tag (1-10 Characters) Optional Assembly to Diaphragm Seal Available

SANITARY PRESSURE TRANSMITTER





SDECIEIC ATIONS

3 Certified

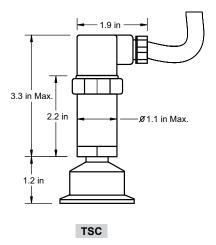


FEATURES / BENEFITS

- 3-A, Tri-Clamp® Sanitary Connection
- · 316 Stainless Wetted parts
- Designed for "Clean-in-place" and "Sterilize-in-place" Procedures
- · Media Temperatures Up to 750°F
- Internal Zero & Span Adjustments

SPECIFICATIONS						
Output Signal		4-20mA, 2-wire (standard), 1-5Vdc, 1-6Vdc, or 1-11Vdc (3-wire)				
Pressure Range	to 0/1000 Ranges	Vacuum, compound, pressure 0/2 to 0/1000 PSI gauge and absolute. Ranges 60 psi and below not recommended with 3/4" Tri-Clamp.				
		Proof Pressure	Burst Pressure			
	0/5 - 0/200 psi	3 x range	3.8 x range			
	0/300 - 0/1,000 psi	1.75 x range	4 x range			
Accuracy (BFSL	,	±1.0% of span, ±0.5% of span, or ±0.25% of span				
Adjustment	±5% full	±5% full scale, zero & span				
Input		10-30 Vdc (for current output), 14-30 Vdc (for voltage output)				
Temperature	Clamp: ± and spar of) Note: 3/4	Temperature effect with 1.5" or 2" Tri-Clamp: ±0.1% of span/10°F (for zero and span) or ±0.02 psi/10°F (greater of) Note: 3/4" tri-clamp not recommended for temperature variations. Effect is ≤				

±0.9 psi/10°F



Tri-Clamp® is a registered trademark of Alpha Laval Inc.

Series TS



SANITARY PRESSURE TRANSMITTER



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Download PDF Data Sheets

HOW TO ORDER: Choose options to build a part number. For example: TSAP18ATC75A03-DWD-AG-PM

TSA 	P18 	A 	TC 	75 	A03
MODEL	RANGE	OUTPUT SIGNAL	CONNECTION TYPE	TRI-CLAMP® SIZE	ELECTRICAL CONNECTION
TSA = General Purpose Sanitary Transmitter (1% Accuracy) TSB = Industrial Sanitary Transmitter (0.5% Accuracy) TSC = High-Accuracy Sanitary Transmitter (0.25% Accuracy)	Common Ranges P01 = -30inHg-0 psi P03 = -30inHg-0-30 psi P16 = 0-30 psi P18 = 0-100 psi P20 = 0-200 psi P21 = 0-300 psi Available Ranges Vac to 1,000 psi Gauge Pressure, Vacuum, or Compound Lowest Pressure = 2 psi See Transmitter Technical Reference on 108 for Complete Range Guide	A = 4-20mA (2-wire) (standard) B = 0-5Vdc (3-wire) C = 1-5Vdc (3-wire) E = 0-10Vdc (3-wire)	TC = Tri-Clamp CI = I-Line	TSA Model 75 = 3/4" Tri-Clamp 15 = 1.5" Tri-Clamp 20 = 2" Tri-Clamp TSB & TSC Models 15 = 1.5" Tri-Clamp 20 = 2" Tri-Clamp 25 = 2.5" Tri-Clamp 30 = 3" Tri-Clamp	All Models J?? = 1/2" NPT Conduit (?? = ft. of cable) TSA & TSB Model ONLY A00 = Mini-Hirschmann (No Cable) A?? = Mini-Hirschmann (?? = ft. of cable) M00 = M12 x 1 (4-pin) TSC Model ONLY M00 = M12 x 1 (4-pin) B00 = Hirschmann, No Cable (DIN EN 175301-803 Form A) B?? = Hirschmann (?? = ft. of cable)

-DWD = Direct Mount, Welded

-RTR = 6" Cooling Tower -STW = 3" Cooling

Standoff
-W?? = PVC Coated
SS Armored

SS Armored Capillary, Welded

Note: ?? = Length in feet (e.g. 05 = 5 feet)

-AG = Glycerin USP
-BN = Neobee M20

-AS = Silicone DC200
-BS = Food-grade
Silicone

See 58 for Complete Fill Guide

-PD = 4-Digit LCD Digital Display, (Model TSC

Only)
-TS = Stainless Steel
Tag

-PM = Positive Material Identification Certification



Optional Digital Display Available (-PD)

Diaphragm Seal Suitability Guide

Diaphragm Seal Suitability Guide										
	Total Span* (in psi)									
	Tri-Clamp	2	3	5	10	15	30	60	100	150+
	3/4"	Х	X	X	S	S	S	Т	Т	
TSA	1.5"	Χ	Χ	Т	Т					
	2"	Х	Х							
	1.5"	X	Х	Т	Т	Т	Т			
TSB	2"	Х	X	Т	Т					
158	2.5"	Х	X	Т						
	3"	Х	X							
	1.5"	S	S	S	Т	Т				
TSC	2"	S	Т	Т						
130	2.5"	Т	Т							
	3"	T								

*Total gauge span is additive of negative and positive pressures. Example: -15 - 0 - 30 psi = 45 psi span

- Assembly will function correctly with minimal accuracy degradation.
- Assembly will function correctly given stable process temperature.
- Assembly is highly sensitive to orientation and temperature variance. REOTEMP cannot guarantee a stated accuracy.
- X Assembly not offered

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Series TL

SUBMERSIBLE LEVEL TRANSMITTER



TL1

SPECIFICATION	ONS
Output Signal	4-20mA, 2-wire 0-5Vdc, 0-10Vdc, or 0.5-2.5Vdc (3-wire)
Pressure Ranges	0-2 psi through 0-500 psi
Proof Pressure	2x Range
Burst Pressure	4x Range
Accuracy (BFSL)	±0.25% of span (standard) ±0.125% of span (standard)
Input	12-30Vdc (for current output) 14-30Vdc (for Vdc output) 6Vdc (for 0.05-2.5Vdc output)
Temperature	Compensated: 32 to 122°F Effect: ±0.01% of span/°F (on zero and span) Media: -14 to 175°F
Environmental Rating	NEMA 6, IP68 (submersible to 1,000 ft.)
Electrical Protection	Reverse polarity, short circuit, and lightning protection
Subersible Cable	Vented, watertight, polyurethane jacketed, tensile strength: maximum 220 lbs.
Wetted Parts	316 SS, Cable: Polyurethane (teflon available), Nose Cone: Polyamide

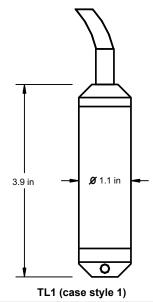






FEATURES / BENEFITS

- Accurate Level Measurements from 5" WC to 300 psi
- 316SS and Polyurethane Wetted Parts
- ±0.25% or ±0.125% Accuracy
- Vented, Strong Submersible Cable
- Lightning, Short Circuit, and Reverse Polarity Protection
- NEMA 6/IP68 Protection, Submersible to 1,000 ft.



Note: Dimensions are nominal and may vary. Check with REOTEMP sales if dimensions are critical. Other case styles available.

HOW TO ORDER: Choose options to build a part number. For example: TL1IN502AGP200LP

TL1	IN50 	2 	A 	G 	P200	LP
MODEL	RANGE	ACCURACY	OUTPUT SIGNAL	PROCESS CONNECTION	CABLE	OPTIONS
TL1 = General Protection TLA = Intrinsically Safe, FM Compliant & CSA Approved	Special INWC ranges for TL1: IN50 = 0/50 IN100 = 0/100 IN150 = 0/150 IN200 = 0/200 IN400 = 0/400 See Transmitter Technical Reference on 108	2 = ±0.25% Full Scale (standard) 3 = ±0.125% Full Scale	Both Models A = 4-20mA (2-wire) (standard) TL1 ONLY B = 0-5Vdc (3-wire) E = 0-10Vdc (3-wire) H = 0.5-2.5Vdc (3-wire)	N = Standard Nose Cone W = Weighted Nose Cone G = 2" Flush Diaphragm with Protective Cage 2 = 1/2" Male NPT Adapter	P??? = PUR Cable (??? = Length in .ft) F??? = FEP Cable (??? = Length in .ft)	TL1 ONLY LP = Lightning Protection

Transmitters



TRANSMITTER TECHNICAL REFERENCE

SPECIFICATIONS

Wetted Parts: Body: 316 SS for ranges under 400 psi, high pressure ranges 17-4PH SS diaphragm and 300 series SS pressure chamber.

Repeatability: 0.05% of scale (model TM, 0.2%)

Hysteresis: 0.1% full-scale

Stability: 0.2% full-scale (model TM, 0.5%)

Burst Pressure: 4 x range

Response Time: <1 ms (between 10-90% of

scale), Model TM: <5ms

Operating Life: 100 million cycles

Electromagnetic Rating: CE compliant to EMC norm, EN61326:1997/A1:1998, RFI, EMI and ESD protection

Electrical Protection: Reverse Polarity, over voltage, and short circuit protection

SHOCK: Less than ± 0.05% full-scale effect for 1,000 g's @ 2ms on any axis (model TM: 600 g's)

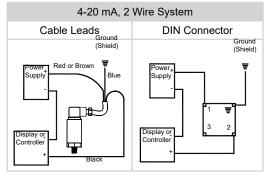
Vibration: Less than ± 0.01% full scale effect for 15 g's @ 0-2,000 Hz on any axis (model TG: less than 0.05% full scale effect for 20 g's @ 5-2,000 Hz on any axis.)

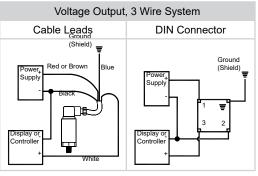
Temperature Range for Storage: -40-212°F Environmental Protection: NEMA 4x (IP65), Series TL: NEMA 6, IP68

Proof Pressure: At Proof Pressure, zero and span may shift but no permanent damage has occurred.

Burst Pressure: At Burst Pressure, permanent nonrecoverable damage may occur.

WIRING DIAGRAMS





	SERIES	TSA	TSB	TSC	TG1	TM	TE	TH1	THX	TL1
Code	Range					VACUUM				
P01	-30"Hg VAC	✓	✓	✓	✓	✓	✓	✓	✓	
Code	Range				COMP	OUND RA	NGES			
P02	-30"Hg/0/15psi	✓	✓	✓	✓			✓	✓	
P03	-30/0/30 psi	✓	✓	✓	✓		✓	✓		
P04	-30/0/60 psi	✓	✓	✓	✓					
P05	-30/0/100 psi	✓	✓	✓	✓		✓			
P06	-30/0/150 psi	✓	✓	✓	✓				✓	
P07	-30/0/200 psi						✓			
P08	-30/0/300 psi	✓	✓	✓	✓					
Code	Range				PRES	SURE RA	NGES			
IN50	0/50 inH ₂ O							✓		✓
IN100	0/100 inH ₂ O				✓			✓		✓
IN200	0/200 inH ₂ O									✓
L11	0/55 INWC			✓				✓		
L12	0/80 INWC			✓				✓		
L13	0/140 INWC	✓	✓	✓	✓			✓		
L14	0/280 INWC	✓	✓	✓	✓			✓		
P11	0/2 psi			✓				✓	✓	✓
P12	0/3 psi			✓				✓	✓	✓
P13	0/5 psi	✓	✓	✓	✓			✓	✓	✓
P14	0/10 psi	✓	✓	✓	✓			✓	✓	✓
P15	0/15 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P16	0/30 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P17	0/60 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P18	0/100 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P195	0/150 psi	✓	✓	✓	✓	✓		✓	✓	✓
P20	0/200 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P21	0/300 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P26	0/500 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P23	0/600 psi	✓	✓	✓	✓	✓		✓		
P27	0/750 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P25	0/1000 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓
P30	0/1500 psi				✓	✓		✓		
P31	0/2000 psi				✓	✓	✓	✓		
P32	0/3000 psi				✓	✓	✓	✓		
P34	0/5000 psi				✓	✓	✓	✓	✓	
P35	0/6000 psi				✓	✓	✓	✓		
P28	0/7500 psi				✓	✓		✓	✓	
P37	0/10000 psi				✓	✓	✓	✓	✓	
P38	0/15000 psi				✓	✓	✓	✓	✓	
P39	0/20000 psi							✓		
P40	0/30000 psi							✓		
P41	0/40000 psi							✓		
P42	0/50000 psi							✓		
P43	0/60000 psi							✓		
Code	Range					LUTE RA	NGES			
A15	0/15 psia	✓	✓		√					
A16	0/30 psia	✓	✓		✓					
A17	0/60 psia	✓	✓		✓					
A18	0/100 psia	√	✓		√					
A19	0/150 psia	✓	✓		√					
A20	0/200 psia	✓	✓		√					
A21	0/300 psia	✓	✓		✓					

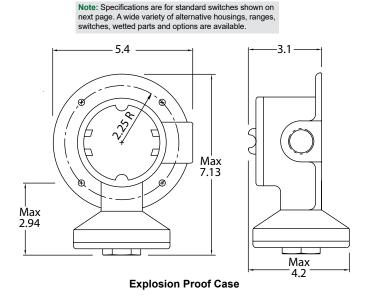
Don't See the Range You Need?Other ranges may be available, contact REOTEMP customer service for more information.



MECHANICAL PRESSURE SWITCH



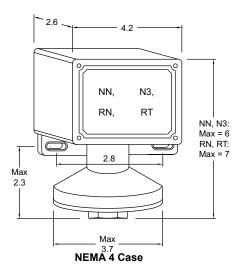
SPECIFICATIO	ONS
Switching Elements	SPDT or DPDT
Current Capacity	15A at 250VAC; 5A at 30VAC
Housing	NEMA4, 4X, or Explosion Proof (Class. 1, Group C&D Class. 2, Group E,F,G, Division 1,2)
Electrical Outlet	3/4" NPTF
Adjustable Setpoints	From full vacuum to 550 psi.
Wetted Diaphragm	Teflon/Buna, 316SS/Viton.
Wetted Pressure Points	316SS, Aluminum, Cast Iron
Repeatability	1% per ISA/ANSI S51.1
Overrange	200 psi to 1,500 psi
Warranty	3 years



REOTEMP's Mechanical Pressure Switches are suited for a variety of process applications where electrical devices must be turned on or off, in response to changing process pressure.



- Reliable Piston-Actuated, Force Balanced Construction
- Rugged, High Cycle Rate Tolerance
- Precise Resolution of Set Points
- Field-adjustable Set Points
- Simple Installation Requiring no Special Tools
- Long Service Life no Required Periodic Service, no Spare Parts Required
- UL, CSA Certified Switching Elements

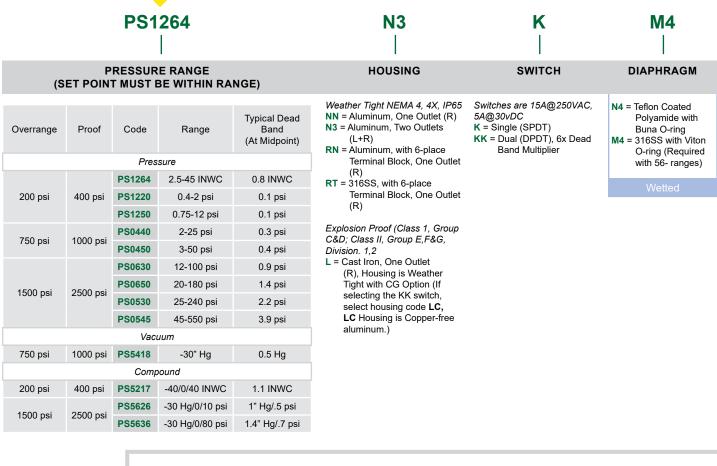


Series PS



MECHANICAL PRESSURE SWITCH

HOW TO ORDER: Choose options to build a part number. For example: PS1264N3KM4C1-YY





PRESSURE PORT

316SS C1 = 1/4" NPTF C2 = 1/2" NPTF

Sanitary 3A Tri-Clamp, Max. 600 psi with Standard Clamp C8 = 1 1/2" Tri-Clamp (Ranges 05-, 06-, 56-)

C9 = 1 1/2" Tri-Clamp (Ranges 05-, 06-, 56-) **C9** = 2" Tri-Clamp (Ranges 04-, 05-, 06-, 54-, 56-)

Aluminum (Available on ranges beginning: 12, 04, 52, 54)

B1 = 1/4" NPTF

B2 = 1/2" NPTF

Cast Iron (Available on ranges beginning 06, 05, 56)

F1 = 1/4" NPTF

F2 = 1/2" NPTF

Wetted

-MM = Vacuum Protector Plate (Standard with Vacuum +

Compound Range)

-CG = Cemented Cover Gasket

-YY = Exterior Epoxy Coating

-TS = Stainless Steel Tag (1-10 Characters)

-SP = Specify Set Point (Set by Factory, N/C)

Example: SP 50A = 50 psi Ascending. If set point is not specified, factory will set at mid point.

-C1 = 1 Point Calibration

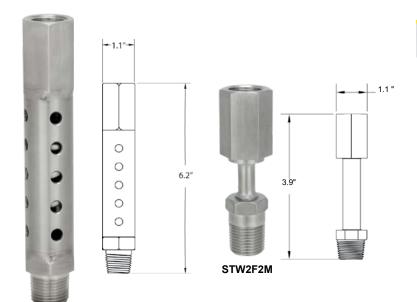
Tri-Clamp® is a registered trademark of Alpha Laval Inc.



Series STW & RTR

COOLING TOWERS

REOTEMP Cooling Towers protect pressure instruments from extremely hot process media without the pain and hassle of remote mounting the instrument. It is specifically designed to mount above a diaphragm seal or thread directly into the process. REOTEMP's unique design can reduce the process temperature by up to 600°F!



SPECIFICATIONS

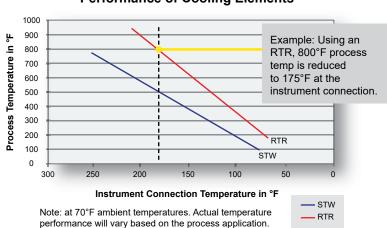
- Protects Pressure Instruments from High Process Temperatures
- Reduces Temperature while Maintaining a Direct Mount
- Fully Welded, 316 Stainless Steel Construction

Application Notes

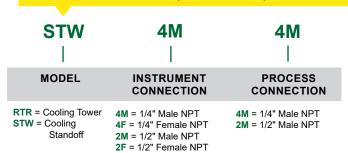
RTR2F2M

- Cooling towers may be threaded directly into process media in applications where the fluid viscosity is low enough to flow through a 3mm ID tube without clogging. For best performance, mount a cooling tower above a diaphragm seal.
- If mounting between a pressure instrument and diaphragm seal, use a 3-digit mounting code in the diaphragm seal part number (pg.57)
- Pigtail siphons (pg.113) or diaphragm seals should be used for steam service.

Performance of Cooling Elements



HOW TO ORDER: Choose options to build a part number. For example: STW4M4M



	Temperature °F	RTR psi	STW psi
Maximum	200	5000	5000
Working	500	3500	3500
Pressure	800	1000	1500

Maximum working temperature is 800°F.

111 (800) 648-7737 sales@reotemp.com reotemp.com PTC-0719

Pressure Accessories

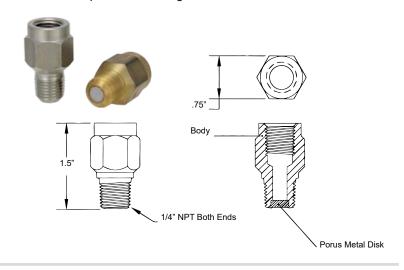


SNUBBERS

REOTEMP snubbers are a simple cost-effective solution for harmful pressure surges and pulsation. When a REOTEMP snubber is installed, it absorbs pulsation and surges. This protects your instrumentation and stabilizes the pointer for easier readings. Snubbers are available in either an adjustable self-cleaning piston design or an economical porous disk design.

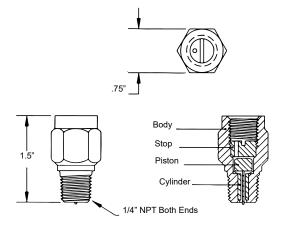
POROUS DISK TYPE							
Max. PSI	NPT	Porosity	Material	Part #			
	1/4"	Liquid		PXS-722BE			
5.000	1/4	Gas	Brass	PXS-722BG			
5,000	1/2"	Liquid	Brass	PXS-723BE			
		Gas		PXS-723BG			
	1/4"	Liquid		PXS-722SE			
15 000	1/4	Gas	20200	PXS-722SG			
15,000	1/0"	Liquid	303SS	PXS-723SE			
	1/2"	Gas		PXS-723SG			

- The Economical Choice for Non-clogging Applications
- Multiple Porosities Available for Various Viscocities



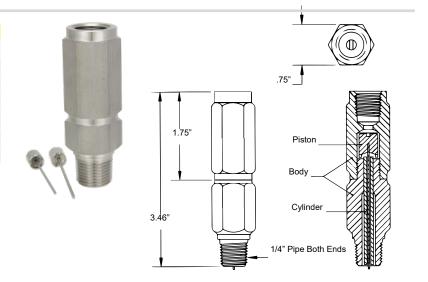
SHORT ORIFICE PISTON TYPE							
Max. PSI	NPT	Length (in.)	Material	Part#			
5.000			Brass	PXS-022B			
5,000	1/4"	1.5"	Monel	PXS-022M			
15 000		1.5	303SS	PXS-022S			
15,000			316SS	PXS-022SS			
5,000		2"	Brass	PXS-023B			
5,000	4 (0)		Monel	PXS-023M			
15 000	1/2"		303SS	PXS-023S			
15,000			316SS	PXS-023SS			

- · A Moving Piston Design for Self-cleaning Action
- A Solid Body for High Pressure Resistance
- · Three Pistons Included for Adjustable Snubbing



LONG ORIFICE PISTON TYPE							
Max. PSI	NPT	Length (in.)	Material	Part #			
3,000			Brass	PXS-010B			
5,000	1/4"	3.46"	303SS	PXS-010S			
5,000			316SS	PXS-010SS			
5,000			Brass	PXS-060B			
10.000	1/2"	2"	303SS	PXS-060S			
10,000			316SS	PXS-060SS			

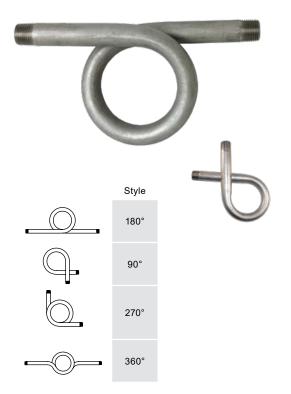
- A Long Orifice for Smoother Snubbing
- A Moving Piston Design for Self-cleaning Action
- · Three Pistons Included for Adjustable Snubbing
- Center Joint (1/4" and brass models) for Easier Adjustment





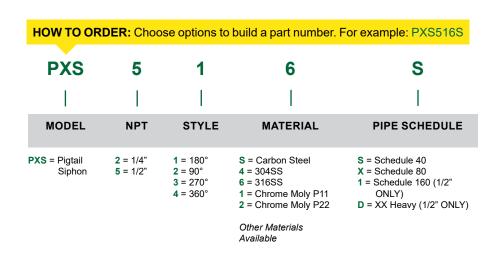
Pressure Accessories

SIPHONS



Pigtail siphons are used in steam service to protect the instrument from direct exposure to high temperature steam.

	COMMON SIPHON PART NUMBERS						
NPT	Material	Schedule	180°	90°	360°		
1/4"		40	PXS21SS	PXS22SS	PXS24SS		
1/4"	Steel	80	PXS21SX	PXS22SX	PXS24SX		
1/2"		80	PXS51SX	PXS52SX	PXS54SX		
1/4"		40	PXS214S	PXS224S	PXS244S		
1/4"	304SS	80	PXS214X	PXS224X	PXS244X		
1/2"		80	PXS514X	PXS524X	PXS544X		
1/2"	316SS	40	PXS516S	PXS526S	PXS546S		





DIAL INDICATING THERMOMETERS



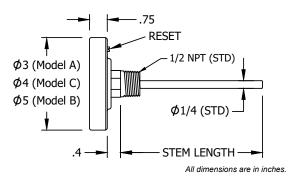
As one of the most experienced US manufacturers of temperature measurement products, REOTEMP has a broad product offering of high-quality dial indicating thermometers. REOTEMP offers rigid mount bimetallic thermometers, surface mount thermometers, remote reading thermometers, digital thermometers, and many other temperature indicating products for the industrial markets. Recognized for building durable, reliable products at industry leading lead times, you can count on REOTEMP to solve your temperature measurement needs.

THERMOMETERS

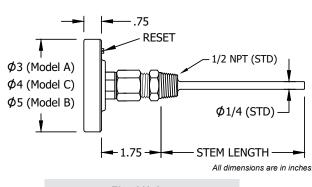
BACK CONNECT BIMETAL THERMOMETER

REOTEMP's Bimetal Thermometers are reliable and accurate temperature sensors requiring no electricity or wiring. Back Connect Thermometers are ideal for local, eye-level temperature readings in most process applications. They can be recalibrated with a turn of the calibration screw on the back of the dial. A variety of options are available for your specific process needs.





Standard Dimensions



Fixed Union





Dials









FEATURES / BENEFITS

- Heavy-Duty Process Grade Design
- **Five Year Warranty**
- Made in the USA

Stem Length

Protection

- Accuracy ± 1% Full Scale (ASME B40.3 Grade A)
- Hermetically Sealed (ASME B40.3)
- Standard External Reset for Calibration
- Silicone Fillable for Vibration

SPECIFICA	ATIONS
Accuracy	± 1% Full Scale (ASME B40.3)
Dial Size	3", 4" or 5"
Dial Material	Black marks on satin matte aluminum finish, Hi-Vis™, or white dial

2" to 80"

Stem Diameter 1/4" (Standard), 3/8" or 5/16" Head, Bezel, Mounting 300 Series SS, 316SS (Optional) **Bushing, Stems Operating Conditions** Head temperature should not exceed

200°F (150°F if silicone filled). Stem should not be exposed to continuous temperatures exceeding 50% overrange or 800°F (550°F if silicone filled). **Environmental** IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)

Lens Glass (Standard), Acrylic, Polycarbonate, Laminated Safety Glass or Tempered Glass Minimum 2" in liquid, and 4" in gas for **Immersion** most ranges. Certain ranges require

up to 4" in liquids & 5" in gas. **Mounting Connection** 1/2" NPT (Standard), 1/4" NPT, 3/4" NPT, Plain Hex Bushing, or 1/2" BSPT

Temperature Sensing Last 2" to 4" of the stem Area

115

Process Grade Thermometers



BACK CONNECT BIMETAL THERMOMETER



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: AA0251F23-SF

	<u>'</u>	· ·	•	
AA 	025	1	F23	-SF
DIAL SIZE	STEM LENGTH	CONNECTION	TEMPERATURE RANGE	OPTIONS
Standard Model AA = 3" Dial w/ Reset CC = 4" Dial w/ Reset BB = 5" Dial w/ Reset Non-Reset Model RR = 3" Dial w/o Reset CN = 4" Dial w/o Reset SS = 5" Dial w/o Reset	025 = 2.5" 040 = 4" 060 = 6" 090 = 9" 120 = 12" 150 = 15" 180 = 18" 240 = 24" 300 = 30" 360 = 36" Note: Intermediate stem lengths available up to 80". Millimeter Stem Lengths M???? = Use a code beginning in M to specify a mm stem length ex: 100mm = M0100	1 = 1/2" NPT 4 = 1/4" NPT 5 = 3/4" NPT Adapter X = Plain Unthreaded Hex Bushing B = 1/2" BSPT U = 1/2" NPT Union	Fahrenheit Ranges F23 = -40°F to 160°F *F55 = 25°F to 125°F F43 = 0°F to 250°F F47 = 0°F to 250°F F63 = 50°F to 300°F F67 = 50°F to 500°F F69 = 50°F to 550°F F81 = 150°F to 750°F F85 = 200°F to 1000°F Celsius Ranges C23 = -40°C to 70°C C55 = 0°C to 50°C* C43 = 0°C to 100°C C47 = -20°C to 120°C C59 = 0°C to 150°C C67 = 0°C to 250°C C69 = 0°C to 50°C* C43 = 0°C to 50°C* C43 = 0°C to 50°C C55 = 0°C to 50°C C67 = 0°C to 50°C C69 = 0°C to 50°C C69 = 0°C to 50°C C73 = 0°C to 50°C C85 = 100°C to 500°C Dual Scale Ranges D23 = -40°F to 160°F & -40°C to 70°C *D55 = 25°F to 125°F & -5°C to 50°C D43 = 0°F to 200°F & -10°C to 90°C D47 = 0°F to 250°F & -20°C to 120°C D67 = 50°F to 500°F & 10°C to 260°C D69 = 50°F to 500°F & 10°C to 290°C D81 = 150°F to 750°F & 70°C to 400°C D85 = 200°F to 1000°F & 100°C to 500°C	General Options -3H = 316 SS Head and Bezel -PS = Pointed Stem -S3 = 3/8" diameter Stem -F5 = 5/16" diameter Stem (Not Available with 316SS Stem) -SF = Silicone Filled -SS = 316 Stainless Stem -WD = White Dial -HV = Hi-Vis™ Dial -NL = No Logo Dial -CB = Color Bands -PI = Color Pie -CL = Custom Logo Dial Window Options (Standard is Glass) -MM = Min-Max Pointer (Plastic Lens) -PC = Acrylic Window -PY = Polycarbonate Window -TG = Tempered Glass Window -SG = Laminated Safety Glass Calibration Cert. Options -R1 = One Point Calibration Cert (REOTEMP Chooses Points) -C1 = One Point Calibration Cert (Customer Chooses Points) -C3 = Three Point Calibration Cert (Customer Chooses Points)

*Not available in 2.5" stem.

For Additional Ranges See Master Range Code Sheet on Page 141

Tags and Accessories

-TS = Tag, Stainless

-TP = Tag, Paper

-AS = Adapts Bimet to 1-1/4-18 industrial socket

-HT = Heat Transfer Compound

For Additional Options See Page 139

For Thermowells See Pages 160-166

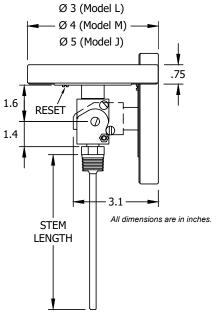
Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.



ADJUSTABLE ANGLE BIMETAL THERMOMETER

REOTEMP's Bimetal Thermometers are reliable and accurate temperature sensors requiring no electricity or wiring. Adjustable Angle Thermometers allow for easy temperature monitoring from any position and they are ideal for local indication. They can be recalibrated with a turn of the calibration screw on the back of the dial.















Fillable

Dials

Accuracy

- Heavy-Duty Process Grade Design
- **Five Year Warranty**
- Made in the USA
- Dial is Adjustable to Any Position for Easy Viewing
- Accuracy ± 1% Full Scale. (ASME B40.3)
- Hermetically Sealed (ASME B40.3)
- Standard External Reset for Easy Calibration
- Silicone Fillable for Vibration

SPECIFICATIO	ONS
Accuracy	± 1% Full Scale (ASME B40.3)
Dial Size	3", 4" or 5"
Dial Material	Black marks on satin matte aluminum finish, Hi-Vis™, or white dial
Stem Length	2" to 80"
Stem Diameter	1/4" (Standard), 3/8" or 5/16"
Head, Bezel, Mounting Bushing, Stems	300 Series SS, 316SS (Optional)
Operating Conditions	Head temperature should not exceed 200°F (150°F if silicone filled). Stem should not be exposed to continuous temperatures exceeding 50% overrange or 800°F (550°F if silicone filled
Environmental Protection	IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)
Lens	Glass (Standard), Acrylic, Polycarbonate, Laminated Safety Glass or Tempered Glass
Immersion	Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
Mounting Connection	1/2" NPT (Standard), 1/4" NPT, 3/4" NPT, Plain Hex Bushing, or 1/2" BSPT
Temperature Sensing Area	Last 2" to 4" of the stem

THERMOMETERS

Process Grade Thermometers



ADJUSTABLE ANGLE BIMETAL THERMOMETER



Visit reotemp.com

- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: LL0251F23-SF



				1
DIAL SIZE	STEM LENGTH	CONNECTION	TEMPERATURE RANGE	OPTIONS
LL = 3" Dial w/ Reset MM = 4" Dial w/ Reset JJ = 5" Dial w/ Reset	025 = 2.5" 040 = 4" 060 = 6" 090 = 9" 120 = 12" 150 = 15" 180 = 18" 240 = 24" 300 = 30"	1 = 1/2" NPT 4 = 1/4" NPT 5 = 3/4" NPT Adapter X = Plain Unthreaded Hex Bushing U = 1/2" NPT Union	Fahrenheit Ranges F23 = -40°F to 160°F F55 = 25°F to 125°F* F43 = 0°F to 200°F F47 = 0°F to 250°F F63 = 50°F to 300°F F67 = 50°F to 500°F F69 = 50°F to 550°F F81 = 150°F to 750°F	General Options -3H = 316 SS Head and Bezel -PS = Pointed Stem -S3 = 3/8" diameter Stem -F5 = 5/16" diameter Stem (Not Available with 316SS Stem) -SF = Silicone Filled -SS = 316 Stainless Stem -WD = White Dial

Note: Intermediate stem lengths available up to 80".

360 = 36"

Millimeter Stem Lenaths M???? = Use a code beginning in M to specify a mm stem length ex: 100mm = M0100

Celsius Ranges $C23 = -40^{\circ}C$ to $70^{\circ}C$ $C55 = 0^{\circ}C \text{ to } 50^{\circ}C^{*}$

F85 = 200°F to 1000°F

C43 = 0°C to 100°C C4 = -20°C to 120°C C59 = 0°C to 150°C

C67 = 0°C to 250°C C69 = 0°C to 300°C $C73 = 0^{\circ}C \text{ to } 400^{\circ}C$

C85 = 100°C to 500°C

Dual Scale Ranges

D23 = -40° F to 160° F & -40° C to 70° C **D55** = 25°F to 125°F & -5°C to 50°C*

D43 = 0°F to 200°F & -10°C to 90°C **D47** = 0°F to 250°F & -20°C to 120°C

D63 = 50°F to 300°F & 10°C to 150°C D67 = 50°F to 500°F & 10°C to 260°C

D69 = 50°F to 550°F & 10°C to 290°C

D81 = 150°F to 750°F & 70°C to 400°C D85 = 200°F to 1000°F & 100°C to 500°C

*Not available in 2.5" stem.

For Additional Ranges See Master Range Code Sheet on Page 141

-WD = White Dial

-HV = Hi-Vis™ Dial

-NL = No Logo Dial -CB = Color Bands

-PI = Color Pie

-CL = Custom Logo Dial

Window Options (Standard is Glass) -MM = Min-Max Pointer (Plastic Lens)

-PC = Acrylic Window

-PY = Polycarbonate Window

-TG = Tempered Glass Window

-SG = Laminated Safety Glass

Calibration Cert. Options

-R1 = One Point Calibration Cert

(REOTEMP Chooses Points)

-R3 = Three Point Calibration Cert (REOTEMP Chooses Points)

-C1 = One Point Calibration Cert (Customer Chooses Points)

-C3 = Three Point Calibration Cert

(Customer Chooses Points)

Tags and Accessories

-TS = Tag, Stainless

-TP = Tag, Paper

-AS = Adapts Bimet to 1-1/4-18 industrial socket

-HT = Heat Transfer Compound

For Additional Options See Page 139

For Thermowells See Pages 160-166

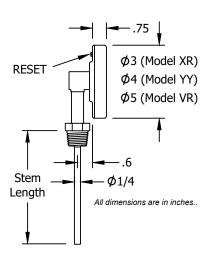
Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.



BOTTOM CONNECT BIMETAL THERMOMETER

REOTEMP's Bimetal Thermometers are reliable and accurate temperature sensors requiring no electricity or wiring. Bottom Connect Thermometers are ideal for side and elevated installations on tops or sides of tanks or pipes and are ideal for local indication. They can be recalibrated with a turn of the calibration screw on the back of the dial. A variety of options are available for your specific process needs.















Fillable

Dials

- Heavy-Duty Process Grade Design
- Five Year Warranty
- Made in the USA
- Accuracy ± 1% Full Scale. (ASME B40.3)
- Hermetically Sealed (ASME B40.3)
- Standard External Reset for Easy Calibration
- OEM Logo Dials/Custom Dials
- Silicone Fillable for Vibration

SPECIFICATION	ONS
Accuracy	± 1% Full Scale (ASME B40.3)
Dial Size	3", 4" or 5"
Dial Material	Black marks on satin matte aluminum finish, Hi-Vis™, or white dial
Stem Length	2" to 80"
Stem Diameter	1/4" (Standard), 3/8" or 5/16"
Head, Bezel, Mounting Bushing, Stems	300 Series SS, 316SS (Optional)
Operating Conditions	Head temperature should not exceed 200°F (150°F if silicone filled). Stem should not be exposed to continuous temperatures exceeding 50% overrange or 800°F (550°F if silicone filled)
Environmental Protection	IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)
Lens	Glass (Standard), Acrylic, Polycarbonate, Laminated Safety Glass or Tempered Glass
Immersion	Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
Mounting Connection	1/2" NPT (Standard), 1/4" NPT, 3/4" NPT, Plain Hex Bushing, or 1/2" BSPT
Temperature Sensing Area	Last 2" to 4" of the stem



BOTTOM CONNECT BIMETAL THERMOMETER



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: XR0251F23-SF



Standard Model

XR = 3" Dial w/ Reset YY = 4" Dial w/ Reset VR = 5" Dial w/ Reset

Non-Reset Model

XX = 3" Dial w/o Reset YN = 4" Dial w/o Reset VV = 5" Dial w/o Reset

025 = 2.5"

040 = 4" 060 = 6"**090** = 9"

120 = 12" **150** = 15" **180** = 18"

240 = 24300 = 30" **360** = 36" Note: Intermediate

stem lengths available up to 80". Millimeter Stem

Lenaths M???? = Use a code beginning in M to specify a mm stem length ex: 100mm = M0100

1 = 1/2" NPT

4 = 1/4" NPT **5** = 3/4" NPT Adapter

X = Plain Unthreaded Hex Bushing U = 1/2" NPT Union

Celsius Ranges

Fahrenheit Ranges

F23 = -40°F to 160°F

F55 = 25°F to 125°F*

F43 = 0°F to 200°F

F47 = 0°F to 250°F

F63 = 50°F to 300°F

 $F67 = 50^{\circ}F \text{ to } 500^{\circ}F$

 $F69 = 50^{\circ}F \text{ to } 550^{\circ}F$

F81 = 150°F to 750°F

F85 = 200°F to 1000°F

 $C23 = -40^{\circ}C$ to $70^{\circ}C$ $C55 = 0^{\circ}C \text{ to } 50^{\circ}C^{*}$ C43 = 0°C to 100°C C4 = -20°C to 120°C C59 = 0°C to 150°C **C67** = 0°C to 250°C

C69 = 0°C to 300°C $C73 = 0^{\circ}C \text{ to } 400^{\circ}C$ C85 = 100°C to 500°C

Dual Scale Ranges

D23 = -40°F to 160°F & -40°C to 70°C **D55** = 25°F to 125°F & -5°C to 50°C* D43 = 0°F to 200°F & -10°C to 90°C

D47 = 0°F to 250°F & -20°C to 120°C **D63** = 50°F to 300°F & 10°C to 150°C

D67 = 50°F to 500°F & 10°C to 260°C **D69** = 50°F to 550°F & 10°C to 290°C

D81 = 150°F to 750°F & 70°C to 400°C D85 = 200°F to 1000°F & 100°C to 500°C

*Not available in 2.5" stem.

For Additional Ranges See Master Range Code Sheet on Page 141

General Options

-3H = 316 SS Head and Bezel

-PS = Pointed Stem

-S3 = 3/8" diameter Stem

-F5 = 5/16" diameter Stem (Not Available with 316SS Stem)

-SF = Silicone Filled

-SS = 316 Stainless Stem

-WD = White Dial -HV = Hi-Vis™ Dial

-NL = No Logo Dial

-CB = Color Bands -PI = Color Pie

-CL = Custom Logo Dial

Window Options (Standard is Glass)

-MM = Min-Max Pointer (Plastic Lens)

-PC = Acrylic Window

-PY = Polycarbonate Window

-TG = Tempered Glass Window

-SG = Laminated Safety Glass

Calibration Cert. Options

-R1 = One Point Calibration Cert (REOTEMP Chooses Points)

-R3 = Three Point Calibration Cert (REOTEMP Chooses Points)

-C1 = One Point Calibration Cert (Customer Chooses Points)

-C3 = Three Point Calibration Cert (Customer Chooses Points)

Tags and Accessories

-TS = Tag, Stainless

-TP = Tag, Paper

-AS = Adapts Bimet to 1-1/4-18 industrial socket

-HT = Heat Transfer Compound

Mounting Orientation

-99 = 9 O'Clock Stem (Left Side)

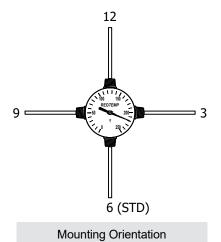
-33 = 3 O'Clock Stem (Right Side)

-12 = 12 O'Clock Stem (Upside Down)

For Additional Options See Page 139

For Thermowells See Pages 160-166

Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.

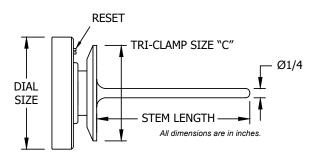




SANITARY BIMETAL THERMOMETER

REOTEMP's Sanitary Bimetal Thermometers are specially designed for direct insertion into sanitary process applications when a standard thermowell is not specified or the process environment is not exposed to pressure. Sanitary thermometers are ideal for the food, beverage and pharmaceutical industries.





Sanitary Flange Size	Diameter in Inches "C"
3/4"	.98"
1"	2"
1.5"	2"
2"	2.5"
2.5"	3"
3"	3.6"











Fillable

e Dials

- Five Year Warranty
- Made in the USA
- 3-A Conformance Certificate Included
- Accuracy ± 1% Full Scale. (ASME B40.3)
- Hermetically Sealed (ASME B40.3)
- Standard External Reset
- Tri-Clamp[®] Design for Fast Installation and Removal
- Silicone Fillable for Vibration

SPECIFICATION	ONS
Accuracy	± 1% Full Scale (ASME B40.3)
Dial Size	3", 4" or 5"
Dial Material	Black marks on satin matte aluminum finish, Hi-Vis™, or white dial
Stem Length	2" to 80"
Stem Diameter	1/4" (Standard), or 3/8"
Head, Bezel, Mounting Bushing	300 Series SS, or 316SS (Optional)
Stem & Tri-Clamp	316SS
Operating Conditions	Head temperature should not exceed 200°F (150°F if silicone filled). Stem should not be exposed to continuous temperatures exceeding 50% overrange or 800°F (550°F if silicone filled)
Environmental Protection	IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)
Lens	Polycarbonate(Standard), Glass, Acrylic, Laminated Safety Glass or Tempered Glass
Immersion	Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
Mounting Connection	Sanitary Tri-Clamp®
Temperature Sensing Area	Last 2" to 4" of the stem

Process Grade Thermometers



SANITARY BIMETAL THERMOMETER



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: XR025CF23-SF

X	(R 			025 	C	F23	-SF
	AL ZE			STEM LENGTH	CONNECTION	TEMPERATURE RANGE	OPTIONS
Standard Model with Dial Size Back Connect Adjustable Angle Bottom Connect Non-Reset Model Dial Size Back Connect Bottom Connect		t 4" CC MM YY 4" CN YN	5" BB JJ VR 5" SS VN	025 = 2.5" 040 = 4" 060 = 6" 090 = 9" 120 = 12" 150 = 15" 180 = 18" 240 = 24" 300 = 36" Note: Intermediate stem lengths available up to 80". Millimeter Stem Lengths M???? = Use a code beginning in M to specify a mm stem length ex: 100mm = M0100	Sanitary C = 1.5" Tri-Clamp® L = 2" Tri-Clamp® A = 2.5" Tri-Clamp® P = 3" Tri-Clamp® M = 3/4" Tri-Clamp® Other sanitary flanges available.	Fahrenheit Ranges F23 = -40°F to 160°F F55 = 25°F to 125°F* F43 = 0°F to 200°F F47 = 0°F to 250°F F63 = 50°F to 300°F F67 = 50°F to 500°F F69 = 50°F to 550°F F81 = 150°F to 750°F F85 = 200°F to 1000°F Celsius Ranges C23 = -40°C to 70°C C55 = 0°C to 50°C* C43 = 0°C to 100°C C4 = -20°C to 120°C C59 = 0°C to 150°C C67 = 0°C to 250°C C69 = 0°C to 300°C C73 = 0°C to 400°C C85 = 100°C to 500°C Dual Scale Ranges D23 = -40°F to 160°F & -40°C to 70°C D55 = 25°F to 125°F & -5°C to 50°C* D43 = 0°F to 250°F & -10°C to 90°C D47 = 0°F to 250°F & -20°C to 120°C D67 = 50°F to 550°F & 10°C to 250°C D69 = 50°F to 550°F & 10°C to 250°C D81 = 150°F to 750°F & 70°C to 400°C C95 = 20°C to 300°F & 10°C to 250°C D81 = 150°F to 750°F & 70°C to 400°C D85 = 200°F to 1000°F & 100°C to 500°C *Not available in 2.5" stem. For Additional Ranges See Master Range Code Sheet on Page 141	General Options -3H = 316 SS Head and Bezel -PS = Pointed Stem -S3 = 3/8" diameter Stem -SF = Silicone Filled -WD = White Dial -HV = Hi-Vis™ Dial -NL = No Logo Dial -CB = Color Bands -PI = Color Pie -CL = Custom Logo Dial Window Options (Standard is Glass -MM = Min-Max Pointer (Plastic Lens) -PC = Acrylic Window -PY = Polycarbonate Window -TG = Tempered Glass Window -SG = Laminated Safety Glass Calibration Cert. Options -R1 = One Point Calibration Cert (REOTEMP Chooses Points) -C1 = One Point Calibration Cert (Customer Chooses Points) -C3 = Three Point Calibration Cert (Customer Chooses Points) Tags and Accessories -TS = Tag, Stainless -TP = Tag, Paper -AS = Adapts Birmet to 1-1/4-18 industrial socket -HT = Heat Transfer Compound For Additional Options See Page
							For Thermowells See Pages 160-166

Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.

Tri-Clamp® is a registered trademark of Alpha Laval Inc.



DUAL MODE THERMOMETER

REOTEMP's Dual Mode Thermometer (DMT) is a convenient, multi-purpose indicator for local and remote temperature monitoring. This rugged dual-sensor system puts TWO independent sensors in ONE THERMOWELL, and allows easy tie-in to process controls. Both sensors are NIST traceable. Special sensor encapsulation and optional liquid filling make the DMT the most rugged, durable instrument of its kind.













Fillable

Dials

Accuracy

Custom Logo Made in the USA

FEATURES / BENEFITS

- Increase Reliability with Independent Local and Remote Reading (Up to 1000°F) from One Thermowell
- Redundant Sensors for Simple, Effective Calibration or Spot Checking Without Removing the Instrument from the Thermowell
- Interchangeable with Existing Thermometer, RTD, or Thermocouple

SPECIFICATION	ONS
Case & Bezel	304SS (Standard), 316SS
Case Style	Back or Adjustable Angle Connection
Dial Size	3", 4", or 5"
Process Connections	1/2" NPT (Standard) or 1/2" NPT Union
External Reset	Slotted Hex Screw
Lens	Glass (Standard), Plastic or Tempered Glass
Hermetic Seal	Bimetal Thermometer per ASME B40.3 (3/8" Stem Only)
Stem Material	304SS (Standard) or 316SS (Optional)
Stem Diameter	3/8" or 1/4"
Stem Length	2-1/2" to 36"
Bimetal Ranges	Standard Ranges and Divisions up to 800°F (538°C), See Page 141 for Complete Range Code Guide
Bimetal Over-range	50% Over Range to 550°F, 1000°F Max
Bimetal Accuracy	± 1% of Full Scale
TC/RTD Temperature Limits	-100°F to 1000°F (Thermocouple), -100°F to 600°F (RTD - DM4 Model), -100°F to 900°F (RTD - DMT Model)
Thermocouple	Type K Grounded Junction (Standard), Types T, E, J, and Ungrounded
Thermocouple Accuracy	Type K ± 2.2°C or 0.75% (-200°C to 1260°C), Whichever is Greater, Others Available Upon Request
RTD	Pt/385/Class B 100 Ω (Std.), Others Available
RTD Accuracy	0.12%°C (Standard), Others Available
Head Orientation	RTD or Thermocouple Head is Mounted to the Right of the Bimetal Thermometer
Thermowell	Model DMT Fits Any Standard 0.385" Bore Thermowell or Model DM4 Fits 0.260" Bore

Tri-Clamp® is a registered trademark of Alpha Laval Inc



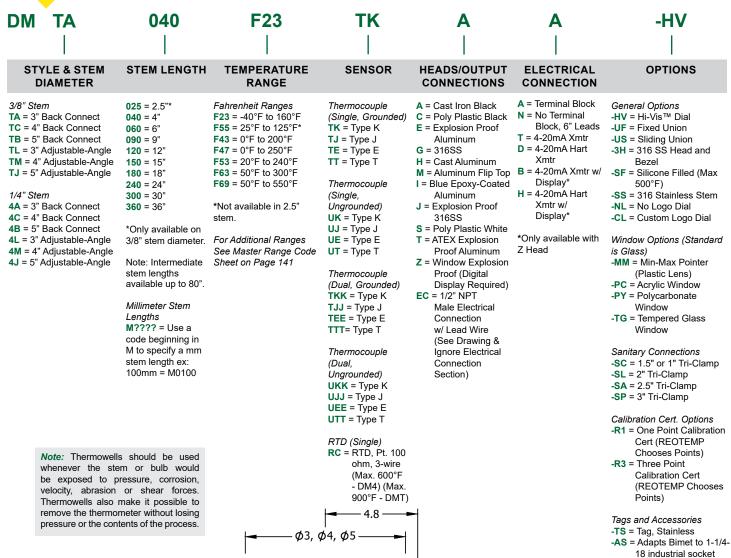
DUAL MODE THERMOMETER

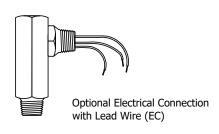


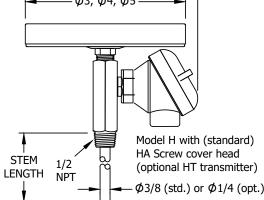
Visit reotemp.com

- √ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: DMTA040F23TKAA-HV







com 124

-HT = Heat Transfer Compound

For Additional Options See

For Thermowells See Pages

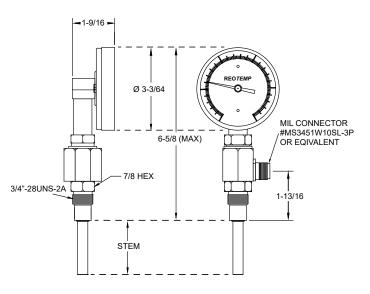
Page 139

160-166

NAVY TYPE DUAL MODE THERMOMETER

REOTEMP's Navy Type Dual Mode Thermometer combines a bimetal thermometer and RTD sensor into the same stem. This provides local indication and remote reading from a single instrument. The unit has a heavy duty, all-welded construction built to withstand tough shock and high vibration environments. The DMS option meets the requirements for MIL-S-901D and MIL-STD-167-1A for navy mil-spec shock and vibration.





THERMOMETERS



FEATURES / BENEFITS

- An Improved Dual Element Alternative to Standard MIL-I-17244E Bimetal Thermometer
- Reinforced Construction Designed for Use on Navy Ships and Other Demanding Applications
- Independent Local and Remote Reading (Up to 1000°F) from One Thermowell
- Redundant Sensors for Simple, Effective Calibration or Spot Checking Without Removing the Instrument from the Thermowell
- Interchangeable with Existing Thermometer, RTD, or Thermocouple
- DMS Model is Navy Mil-Spec Approved (MIL-S-901D & MIL-STD-167-1A)

SPECIFICATIONS

Stem Material

External Dial Reset

Of Loft fortific	3110
Approvals (Optional)	MIL-S 901D (Shock) and MIL-STD-167 (Vibration)
Sensor	100Ω Platinum 3 WireRTD
RTD Temperature Range	-40°F to 1000°F
Accuracy	RTD: Class B Bimetal: ± 1% of Scale
Electrical Connection	Mil Connector MS3451W10SL-3P 3 Pin Electrical Cable Connection
Dial Range	All Standard Bimetal Ranges. See page 141 for a Complete Range Code Guide
Dial Size	3" or 5"
Process Connections	3/4"-28 Thread, 1/2" NPT, or 7/8" 14 with Fixed Swivel Union and Navy Collar
Stem Diameter	3/8" DMN & DMS Models, 1/4" for DMC
Lens	Polycarbonate

304SS

Slotted Hex Screw

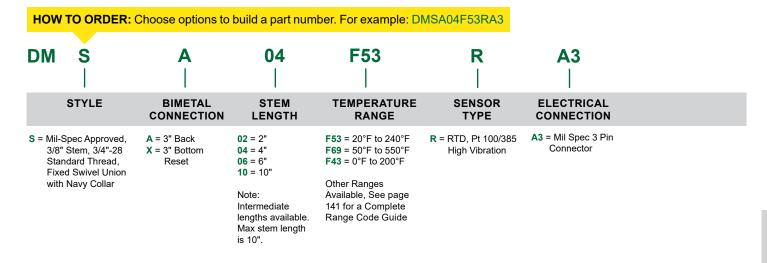


NAVY TYPE DUAL MODE THERMOMETER

HOW TO ORDER: Choose options to build a part number. For example: DMNA04F53RA3 DM **F53** R **A3** Ν Α 04 STYLE **BIMETAL** STEM **TEMPERATURE SENSOR ELECTRICAL PROCESS** CONNECTION **LENGTH RANGE TYPE** CONNECTION CONNECTION **F53** = 20°F to 240°F A3 = Mil Spec 3 Pin N = Navy Type 3/8" Stem; **A** = 3" Back 02 = 2'R = RTD, Pt 100/385 No Code = 3/4"-28 04 = 4" Fixed Swivel Union X = 3" Bottom **F69** = 50°F to 550°F High Vibration Connector Fixed Swivel C = Navy Type 1/4" Stem; Reset **06** = 6" F85 = 200°F 1,000°F Union with Navy Fixed Swivel Union L = 3" Adjustable **09** = 9" Collar (Standard) J = 5" Adjustable Other Ranges P = 1/2" NPT Fixed Swivel Union w/ Available, See page Note: Intermediate 141 for a Complete Navy Collar lengths available. Range Code Guide I = 7/8"-14 Fixed Swivel Union w/ Navy Collar

MIL-SPEC DUAL MODE THERMOMETER

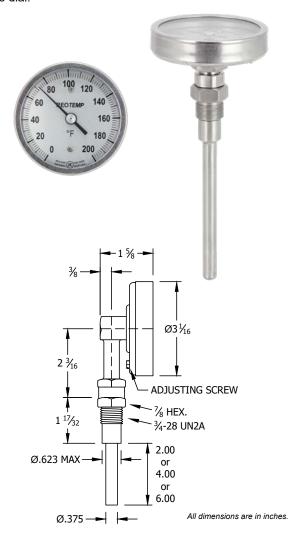
The MIL-SPEC Dual Mode Thermometer has passed rigorous impact testing to achieve MIL-S-910D (Shock) and MIL-STD-167-1A(Vibration).

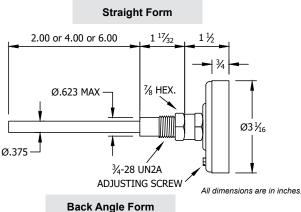




HEAVY-DUTY NAVY TYPE BIMETAL THERMOMETER

REOTEMP's Bimetal Thermometers are reliable and durable temperature sensors. Navy Type Thermometers are specifically designed to resist vibration and shock. They are ideal for local indication, requiring no electricity or wiring. They can be recalibrated with a turn of the calibration screw on the back of the dial.















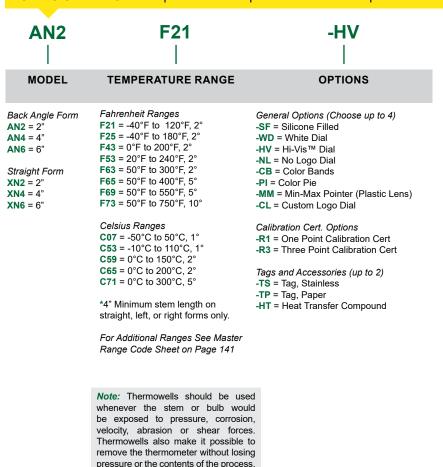
- Heavy-Duty Vibration and Shock Resistant
- Made in the USA
- Accuracy ± 1% Full Scale. (ASME B40.3)
- 3" Dial with Bimetal Actuation
- Hermetically Sealed (ASME B40.3)
- Plastic Crystal Polycarbonate Window
- Standard External Reset
- Fits in 5" Scale "Submarine" Thermowell
- The standard 3/4"- 28 UN2A Union Connection is designed for Navy thermowells
- Silicone Fillable for Vibration

Accuracy	± 1% Full Scale (ASME B40.3)
Dial Size	3"
Dial Material	Black marks on satin matte aluminum finish, or White Dial
Stem Length	2", 4", and 6" (Standard); custom lengths available.
Stem Diameter	.375" (Standard) or 1/4"
Head, Bezel, Mounting Bushing, Stems	300 Series SS
Operating Conditions	Head temperature should not exceed 200°F (150°F if silicone filled). Stem should not be exposed to continuous temperatures exceeding 50% overrange or 800°F (550°F if silicone filled)
Environmental Protection	IP67, NEMA 6 Rated (Hermetically sealed per ASME B40.3)
Lens	Plastic
Immersion	Minimum 2" in liquid, and 4" in gas.
Mounting Connection	3/4"- 28 UN2A Union Connection (to be used in thermowell)
Temperature Sensing	Last 2" to 4" of the stem.

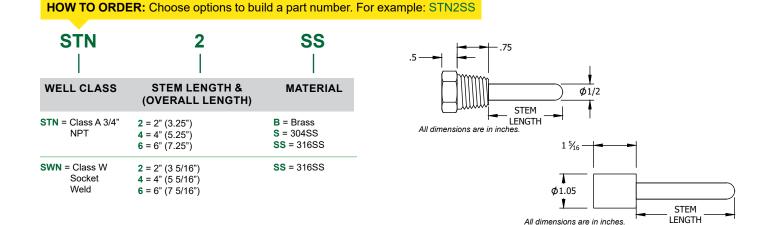


HEAVY-DUTY NAVY TYPE BIMETAL THERMOMETER

HOW TO ORDER: Choose options to build a part number. For example: AN2F21-HV



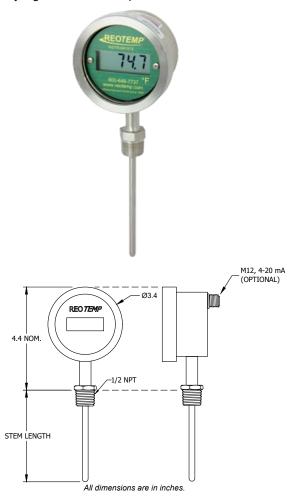
HEAVY-DUTY NAVY TYPE THERMOWELL





DIGITAL THERMOMETER/TRANSMITTER

REOTEMP's Digital Thermometer/Transmitter is a high accuracy thermometer with digital display. It features an IP67/NEMA 4X enclosure and a 5 year battery life. The Digital Thermometer is perfect for a variety of markets and applications where a high accuracy digital readout is required.



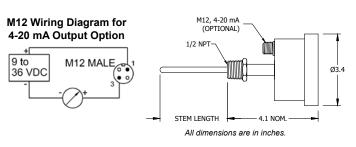


Table 1: Display Resolution			
Model	Range	Decimal Point	
Low Temp, Displays Decimal	-58°F to 392°F (-50C to 200C)	Yes	
High Temp, No Decimal	-328°F to 1112°F (-200°C to 600°C)	No	







Accuracy

Custom Logo

Made in the USA

FEATURES / BENEFITS

- High Accuracy 1,000Ω RTD (Class A)
- Water Resistant IP67/NEMA 4X
- 5 Year Battery Life
- 4-20 mA Output Available
- Low or High Temperature Range Models

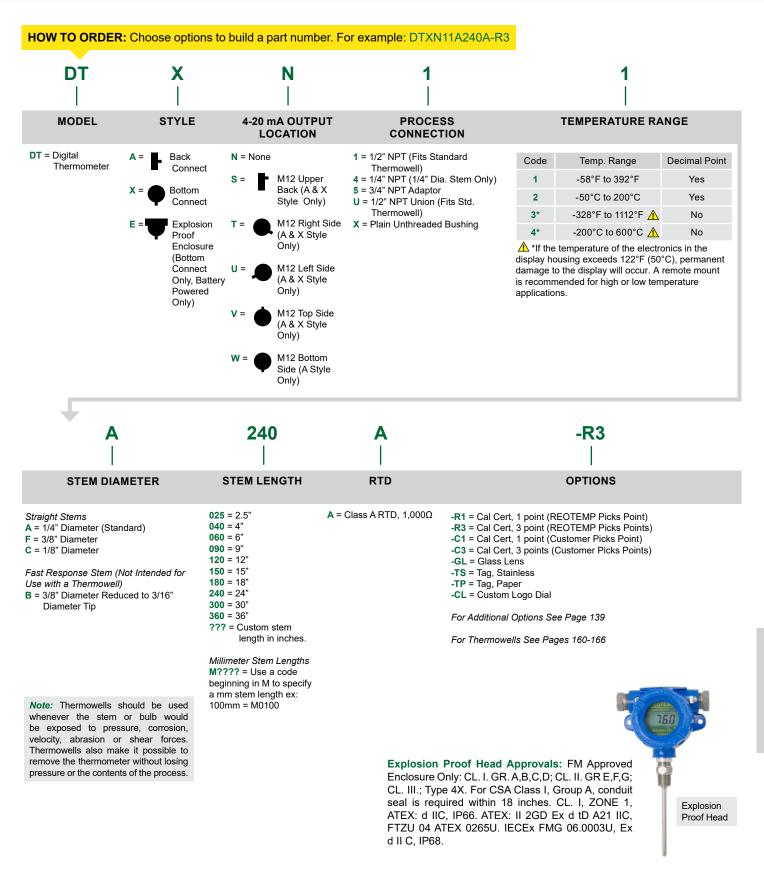
SPECIFICATIONS

Accuracy	± (0.72 + 0.002 x t-32) °F, ± (0.42 + 0.002 x t) °C, where t = temperature. Example: At 32°F accuracy is ± 0.72 °F.
Sensing Element	RTD, Type Pt1000Ω, Class A
Temperature Ranges	-58°F to 392°F (-50°C to 200°C) or -328°F to 1112°F (-200°C to 600°C)
Output (Optional)	4-20 mA, M12 Connector
Refresh Rate	3 Seconds
Display	4-digit LCD, 1/2" Height
Display Resolution	See Table 1
RFI Effect	1% or Less Typical
Ambient Temperature Range	32°F to 122°F (0°C to 50°C)
Housing Material	Stainless Steel 316
Lens	Plastic Polycarbonate (Standard) or Glass
Probe Material	304 Stainless Steel
Weight	12 oz., Varies by Configuration
Environmental Protection	NEMA 4X/IP67
Power	1 x 3.6V AA Battery (M12 is loop powered 9-36 VDC.)
Battery Life	5 Years Minimum in Continuous Mode
Electronic Display Temperature Limit	If the temperature of the electronics in the display housing exceeds 122°F (50°C), permanent damage to the display will occur. A remote mount is recommended for high or low temperature applications.

reotemp.com



DIGITAL THERMOMETER/TRANSMITTER





ADJUSTABLE ANGLE DIGITAL THERMOMETER/TRANSMITTER

REOTEMP's Adjustable Angle Digital Thermometer/Transmitter is a high accuracy thermometer with digital display. It features an IP67/NEMA 4X enclosure and a 5 year battery life. The Digital Thermometer is perfect for a variety of markets and applications where a high accuracy digital readout is required.



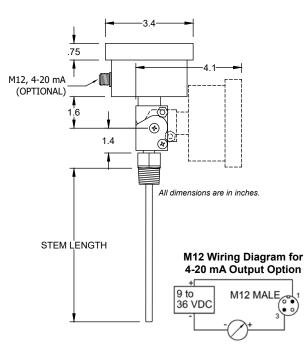


Table 1: Display Resolution			
Model	Decimal Point		
Low Temp, Displays Decimal	-58°F to 392°F (-50C to 200C)	Yes	
High Temp, No Decimal	-328°F to 1112°F (-200°C to 600°C)	No	







Accuracy

Custom Logo

Made in the USA

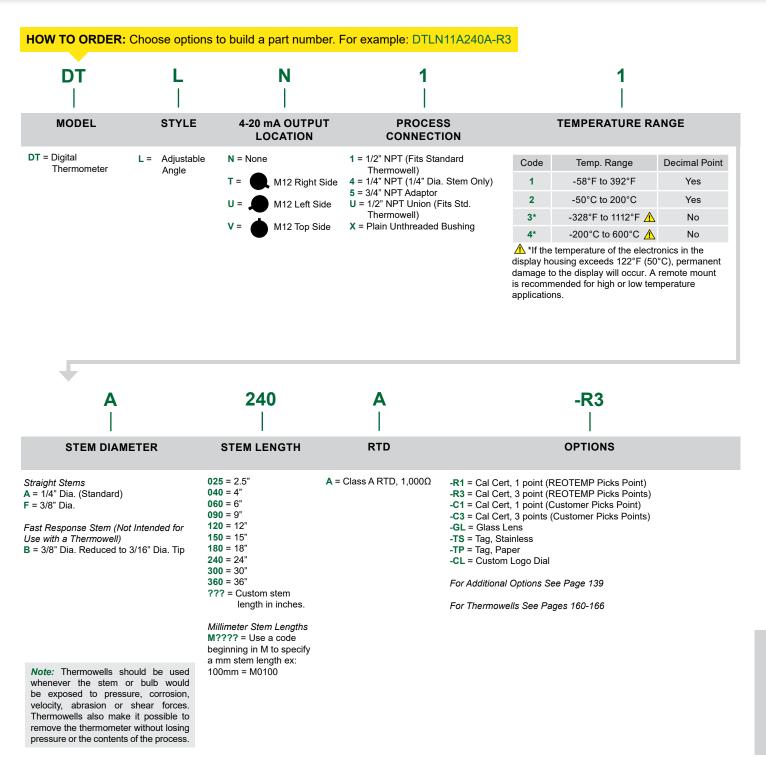
- High Accuracy 1,000Ω RTD (Class A)
- Water Resistant IP67/NEMA 4X
- 5 Year Battery Life
- 4-20 mA Output Available
- Low or High Temperature Range Models

SPECIFICATIONS		
Accuracy	\pm (0.72 + 0.002 x t-32) °F, \pm (0.42 + 0.002 x t) °C, where t = temperature. Example: At 32°F accuracy is \pm 0.72 °F.	
Sensing Element	RTD, Type Pt1000 Ω , Class A	
Temperature Ranges	-58°F to 392°F (-50°C to 200°C) or -328°F to 1112°F (-200°C to 600°C)	
Output (Optional)	4-20 mA, M12 Connector	
Refresh Rate	3 Seconds	
Display	4-digit LCD, 1/2" Height	
Display Resolution	See Table 1	
RFI Effect	1% or Less Typical	
Ambient Temperature Range	32°F to 122°F (0°C to 50°C)	
Housing Material	Stainless Steel 316	
Lens	Plastic Polycarbonate (Standard) or Glass	
Probe Material	304 Stainless Steel	
Weight	12 oz., Varies by Configuration	
Environmental Protection	NEMA 4X/IP67	
Power	1 x 3.6V AA Battery (M12 is loop powered 9-36 VDC.)	
Battery Life	5 Years Minimum in Continuous Mode	
Electronic Display Temperature Limit	If the temperature of the electronics in the display housing exceeds 122°F (50°C), permanent damage to the display will occur. A remote mount is recommended for high or low temperature applications.	

Process Grade Thermometers



ADJUSTABLE ANGLE DIGITAL THERMOMETER/TRANSMITTER





SANITARY DIGITAL THERMOMETER/TRANSMITTER

REOTEMP's Sanitary Digital Thermometer/Transmitter is a high accuracy thermometer with digital display. It features an IP67/NEMA 4X enclosure, clean-in-place connection, and a 5 year battery life. The Digital Thermometer is perfect for brewing, food, beverage and pharmaceutical applications where a high accuracy digital readout is required.

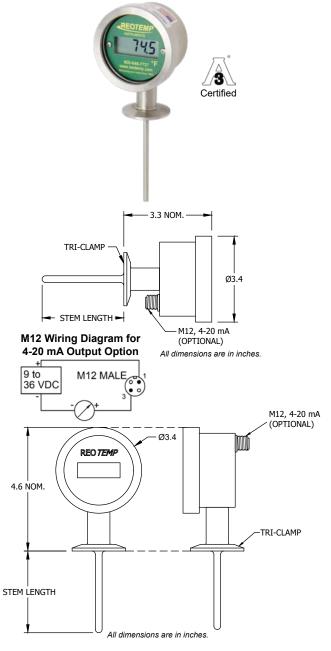


Table 1: Display Resolution			
Model	Decimal Point		
Low Temp, Displays Decimal	-58°F to 392°F (-50C to 200C)	Yes	
High Temp, No Decimal	-328°F to 1112°F (-200°C to 600°C)	No	







Accuracy

Custom Logo

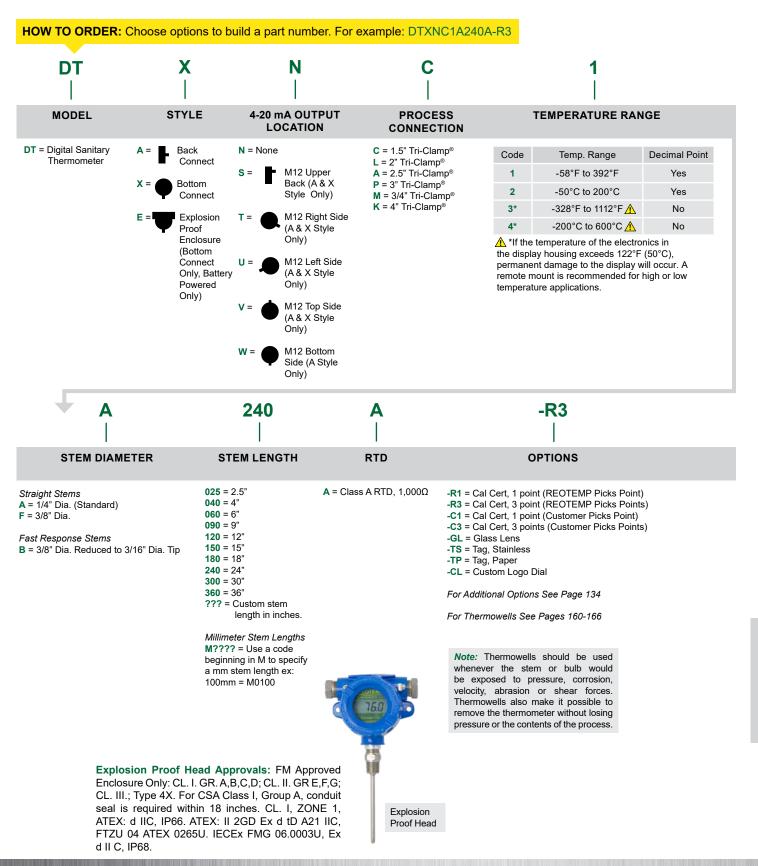
Made in the USA

- 3-A Conformance Certificate Included
- High Accuracy 1,000Ω RTD (Class A)
- Water Resistant IP67/NEMA 4X
- 5 Year Battery Life
- 4-20 mA Output Available
- Low or High Temperature Range Models

SPECIFICATIONS			
Accuracy	± (0.72 + 0.002 x t-32) °F, ± (0.42 + 0.002 x t) °C, where t = temperature. Example: At 32°F accuracy is ± 0.72 °F.		
Sensing Element	RTD, Type Pt1000 Ω , Class A		
Temperature Ranges	-58°F to 392°F (-50°C to 200°C) or -328°F to 1112°F (-200°C to 600°C)		
Output (Optional)	4-20 mA, M12 Connector		
Refresh Rate	3 Seconds		
Display	4-digit LCD, 1/2" Height		
Display Resolution	See Table 1		
RFI Effect	1% or Less Typical		
Temperature Effect	32°F to 122°F (0°C to 50°C)		
Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)		
Housing Material	Stainless Steel 316		
Wetted Finish	Ra 32 max., Ra 20 max. (optional)		
Lens	Plastic Polycarbonate (Standard) or Glass		
Probe Material	304 Stainless Steel		
Weight	12 oz., Varies by Configuration		
Environmental Protection	NEMA 4X/IP67		
Power	1 x 3.6V AA Battery (M12 is loop powered 9-36 VDC.)		
Battery Life	5 Years Minimum in Continuous Mode		
Electronic Display Temperature Limit	If the temperature of the electronics in the display housing exceeds 122°F (50°C), permanent damage to the display will occur. A remote mount is recommended for high temperature applications.		



SANITARY DIGITAL THERMOMETER/TRANSMITTER





HANDHELD DIGITAL THERMOMETER

REOTEMP's Handheld Digital Thermometer is a multi-purpose high accuracy thermometer used to spot check various process media commonly found in the brewing and food & beverage industries. The Digital Handheld Thermometer features rugged all stainless steel construction and a built-in handle for ease of handling and extra protection.





Table 1: Display Resolution			
Model	Range Decimal		
Low Temp, Displays Decimal	-58°F to 392°F (-50C to 200C)	Yes	
High Temp, No Decimal	-328°F to 1112°F (-200°C to 600°C)	No	







Accuracy

Custom Logo

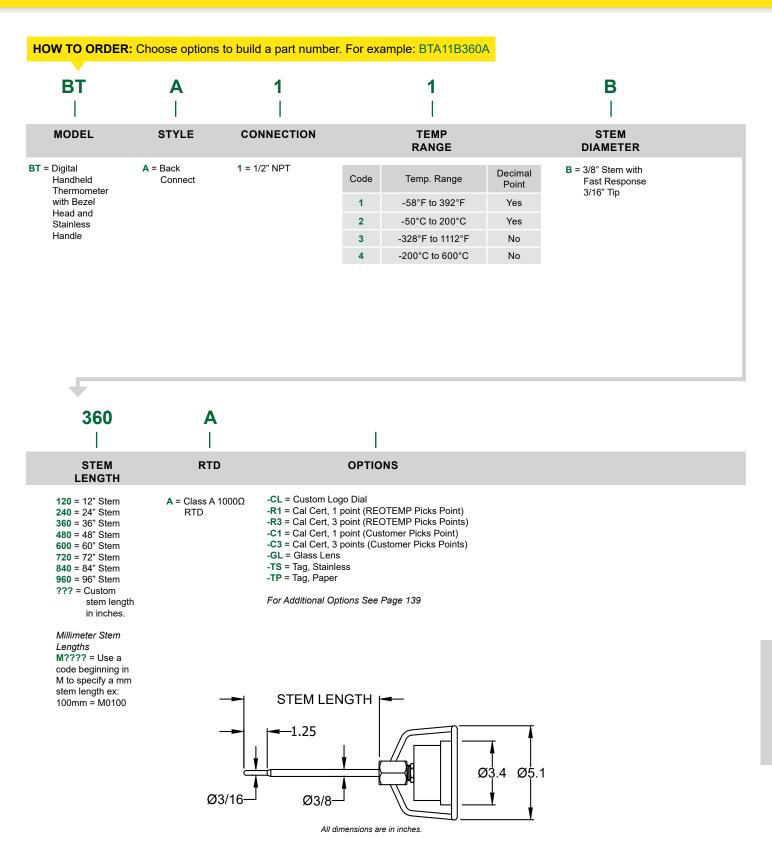
Made in the USA

- 3" Dial with Plastic (Polycarbonate) Lens
- Easy-to-Read 4 Digit LCD Display with Decimal Point
- High Accuracy Class A RTD
- Water Resistant IP67/NEMA 4X
- Rugged All Stainless Steel Construction
- Fast Response Stem

SPECIFICATIONS			
Accuracy	\pm (0.72 + 0.002 x t-32) °F, \pm (0.42 + 0.002 x t) °C, where t = temperature. Example: At 32°F accuracy is \pm 0.72 °F.		
Sensing Element	RTD, Type Pt1000Ω, Class A		
Temperature Ranges	-58°F to 392°F (-50°C to 200°C) or -328°F to 1112°F (-200°C to 600°C)		
Refresh Rate	3 Seconds		
Display	4-digit LCD, 1/2" Height		
Display Resolution	See Table 1		
RFI Effect	1% or Less Typical		
Temperature Effect	32°F to 122°F (0°C to 50°C)		
Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)		
Housing Material	Stainless Steel 316		
Lens	Plastic Polycarbonate (Standard) or Glass		
Probe Material	304 Stainless Steel		
Weight	12 oz., Varies by Configuration		
Environmental Protection	NEMA 4X/IP67		
Power	1 x 3.6V AA Battery (M12 is loop powered 9-36 VDC.)		
Battery Life	5 Years Minimum in Continuous Mode		
Electronic Display Temperature Limit	If the temperature of the electronics in the display housing exceeds 122°F (50°C), permanent damage to the display will occur. A remote mount is recommended for high temperature applications.		



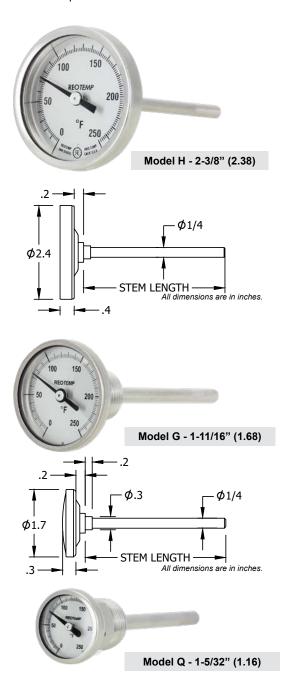
HANDHELD DIGITAL THERMOMETER





SMALL DIAL BIMETAL THERMOMETERS

REOTEMP's OEM Thermometers are the perfect choice for equipment with limited space that requires a rugged, dependable, and economical temperature sensor. These thermometers are also available with a wide variety of mounting threads.











Custom Logo Made in the USA

FEATURES / BENEFITS

- Made to ASME B40.3 Specifications
- Accuracy ± 1% Full Scale. (ASME B40.3)
- Standard External Reset
- One Year Warranty
- Made in the USA
- All-Stainless Steel Construction

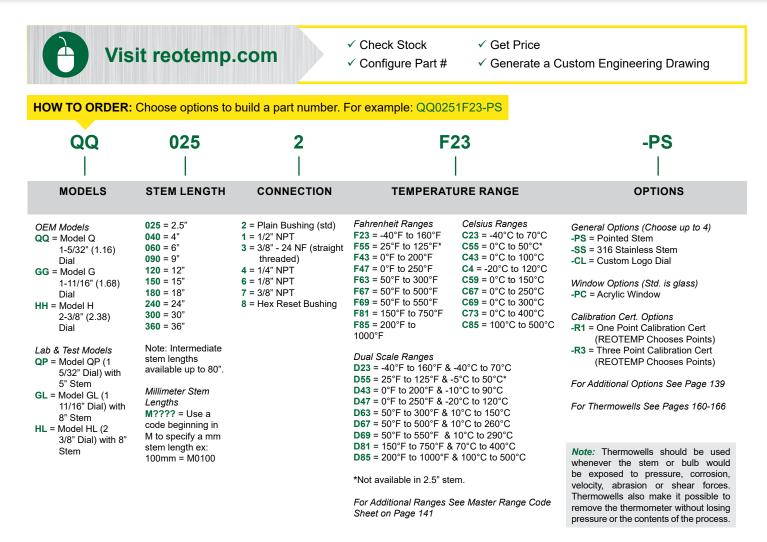
SPECIFICATIONS		
Accuracy	± 1% Full Scale (ASME B40.3)	
Dial Size	1-5/32" (1.16), 1-11/16" (1.68), 2-3/8" (2.38)	
Dial Material	Black marks on satin matte aluminum finish, or White Dial	
Stem Length	2" to 80"	
Stem Diameter	1/4" or 5/16"	
Head, Bezel, Mounting Bushing, Stems	300 Series SS, 316SS (Optional)	
Operating Conditions	Head temperature should not exceed 200°F. Stem should not be exposed to continuous temperatures exceeding 50% over-range or 800°F.	
Environmental Protection	IP67, NEMA 6 Rated	
Lens	Glass (Standard), Acrylic, or Polycarbonate	
Immersion	Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.	
Mounting Connection	Plain Bushing (standard), 1/2" NPT, 3/8"-24 NF (straight threaded), 1/4" NPT, 1/8" NPT, 3/8" NPT, Hex Reset Bushing	
Temperature Sensing Area	Last 2" to 4" of the stem	

All dimensions are in inches.

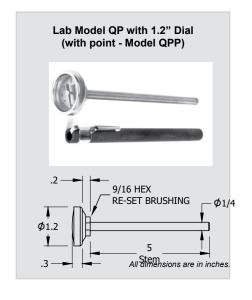
STEM LENGTH

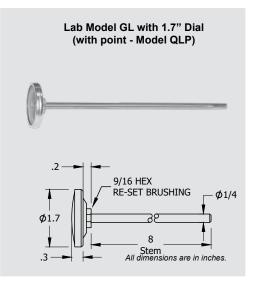


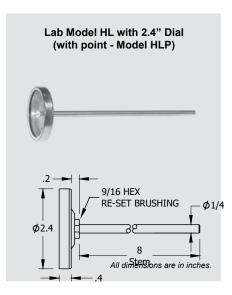
SMALL DIAL BIMETAL THERMOMETERS



REOTEMP's Laboratory Thermometers (QP, GL & HL) are ideal for testing and spot checking local temperatures in a variety of critical process or lab applications. Pointed stems are available for insertion in semi-solids such as soil, meat, etc.









DIAL INDICATING THERMOMETER OPTIONS

		Industrial	Small Dial OEM	Digital	Dual Mode Thermometer
Part#	Description	AA, RR, CC, CN, BB, SS, XR, XX, YY, YN, VR, VV, LL, MM, JJ	QQ, GG, HH	DT, DTR, BT	DMT
-SF	Silicone Filled Case	FILL OPTIOI ✓		N1/A	✓
-3F		S OPTIONS	N/A	N/A	•
-PC	Acrylic Window	✓ · · · · · · · · · · · · · · · · · · ·	√	N/A	✓
-PY	Polycarbonate Window	√	√	STD	✓
-TG	Tempered Safety Glass Lens	√	N/A	N/A	✓
-SG	Laminated Safety Glass Lens	✓	N/A	N/A	✓
-GL	Plain Glass	STD	STD	√ · · · ·	STD
		M OPTIONS	015		015
-PS	Pointed Tip	✓	✓	✓	N/A
-SS	316 Stainless Steel Stem	✓	✓	✓	√ ·
-F5	5/16" Diameter Stem (Not Available with 316SS Stem)	✓	✓	✓	N/A
-S3	3/8" Diameter Stem	✓	✓	✓	✓
-TF	Teflon Coating (Stem Only)	✓	✓	✓	✓
	DIA	L OPTIONS			
-CL	Custom Logo Dial	✓	✓	✓	✓
-HV	Hi-Vis Dial	✓	MQ	N/A	✓
-СВ	Color Band	✓	MQ	N/A	✓
-CP	Color Pie	✓	MQ	N/A	✓
-WD	White Dial (Standard Ranges Only)	✓	✓	✓	✓
-MM	Min/Max Pointer	✓	N/A	N/A	✓
NL	No Logo	✓	✓	✓	✓
	TA	G OPTION			
-TS	Stainless Steel Tag (1-10 Characters)	✓	✓	✓	✓
-TP	Paper Tag	ATION ORT	√ IONE	✓	✓
	1pt. Calibration Certification	ATION OPT			
-R1	(REOTEMP Chooses the Point) 3 pt. Calibration Certification	√	√	✓	✓
-R3	(REOTEMP Chooses the Points)	✓	√	✓	√
-C1	pt. Calibration Certification (Customer Chooses the Point) pt. Calibration Certification	√	√	✓	✓
-C3	(Customer Chooses the Points) NIST Calibration Sticker (No Logged	√	√	✓	√
-cs	Points)	✓	✓	✓	✓
-cc	Certificate of Conformance	✓	✓	✓	✓
		OTHER	NICE	077	
-3H	316 Stainless Steel Head & Bezel	√	N/A	STD	√
-HT	Heat Transfer Compound	√	√	✓	✓ N//A
-CH	Spring Handle (T-27) Allows Rimet to Fit 1-1//-18 Industrial	✓	✓	✓	N/A
-AS	Allows Bimet to Fit 1-1/4-18 Industrial Thermowell	✓	✓	✓	✓

✓	Indicates that the option is available with the model.	N/A	Indicates the option is not available with this model.
STD	Indicates standard options with no additional cost.	MQ	Minimum order quantity applies.



BIMETAL OPTIONS

You Tube Visit reotemp.com/youtube

- ✓ In-depth Videos on our Customization Options
- ✓ Product Demonstration Videos

REOTEMP's Hi-Vis™ dial increases the visibility of dials in low-light environments and from a distance. Hi-Vis™ dials are often used in areas where readings are paramount to safety. They can also be used to differentiate between two different process lines within a facility.

-HV Hi-Vis™ High Visibility Dial

Availability Process Grade Thermometers



COLOR BANDS & COLOR PIES

Color bands and pies highlight a specific range on the gauge so that it is immediately apparent if the process falls within a critical temperature range.

-CB Color Band (Specify Colors and Ranges)

-CP Color Pie (Specify Colors and Ranges)

Availability Process Grade Thermometers





Color Band

Color Pie

CUSTOM LOGO DIAL

Thermometer dials offer a unique opportunity communicate critical information, highlight installation specifications, or promote an OEM or end-user brand.

Custom Logo Dial

Availability All Dial Indicating Thermometers.

100

Custom Logo

DIAL MARKING

Add text, a serial number, tag number, equipment class, or other text to the thermometer dial face.

-DM **Dial Marking**

Availability All Dial Indicating Thermometers.



Min-Max Pointer with **Color Bands**



BIMETAL TEMPERATURE RANGE CODE MASTER LIST

FAHRENHEIT RANGES			
Code	°F Range	Div.	
F03	-100/100	2	
F05	-100/200	2	
F07	-80/120	2	
F11	-70/150	2	
F19	-50/300	5	
F21 [†]	-40/120	2	
F23	-40/160	2	
F25	-40/180	2	
F26	-40/200	2	
F27‡	-40/70	1	
F31 [†]	-20/120	2	
F33	-20/425	5	
F35‡	0/100	1	
F37 [†]	0/140	2	
F39†	0/150	1	
F43	0/200	2	
F45	0/220	2	
F47	0/250	2	
F49	0/300	2	
F50	0/500	5	
F51	0/600	10	
F53	20/240	2	
F55‡	25/125	1	
F57‡	30/130	1	
F63	50/300	2	
F65	50/400	5	
F67	50/500	5	
F69	50/550	5	
F71	50/650	10	
F73	50/750	10	
F78	100/600	5	
F79	100/800	10	
F81	150/750	10	
F82	200/700	20	
F83	200/300	2	
F84	100/900	5	
F85	200/1000	10	
F89	250/600	5	
F91	300/400	2	
F92	0/1200	2	

CELSIUS RANGES			
Code	°C Range	Div.	
C01	-80/220	2	
C03	-70/70	2	
C06	-70/30	1	
C07	-50/50	1	
C08	-60/120	2	
C09‡	-50/0	1	
C15	-50/100	2	
C17	-50/200	2	
C19	-40/160	2	
C20	-60/300	5	
C23	-40/70	1	
C24	-40/350	5	
C27‡	-30/30	1	
C31‡	-20/40	1	
C32	-20/60		
C33	-20/220	2	
C34	-20/320	5	
C35‡	0/30	.5	
C37‡	0/60	1	
C38†	0/80		
C43	0/100	1	
C47	-20/120	2	
C53	-10/110	1	
C55‡	0/50	.5	
C56	0/120	1	
C59	0/150	1	
C60	50/150		
C61	0/160	2	
C63	10/150	2	
C65	0/200	2	
C67	0/250	2	
C69	0/300	2	
C71	0/300	5	
C73	0/400	5	
C74	0/450	5	
C75	0/500	5	
C79	50/450	5	
C81	50/400	5	
C85	100/500	5	
C87	100/550	5	

D	UAL RANGES
Code	°F & °C Range
D01	-150/400 & 100/200
D03	-100/100 & -70/40
D07	-80/120 & -60/50
D15	-50/210 & -50/100
D19	-50/300 & -40/160
D23	-40/160 & -40/70
D37 [†]	0/140 & -15/60
D39 [†]	0/150 & -20/65
D41 [†]	0/160 & -15/70
D43	0/200 & -10/90
D45	0/220 & -10/100
D47	0/250 & -20/120
D49	0/300 & -10/150
D53	20/240 & -10/115
D55‡	25/125 & -5/50
D63	50/300 & 10/150
D65	50/400 & 10/200
D67	50/500 & 10/260
D69	50/550 & 10/290
D77	100/450 & 40/230
D79	100/800 & 40/400
D81	150/750 & 70/400
D85	200/1000 & 100/500
D87	200/1000 & 100/550

PTC-0719

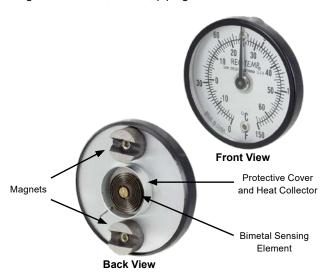
[‡] Minimum stem length is 4".

[†] For 2.5" stem, all bottom connect and all-angle models require adapter P/N AD22S.



SURFACE THERMOMETER

The REOTEMP Surface Bimetal Thermometer measures temperature on any horizontal surface. The magnetic feet on this model snap it securely to any ferrous surface. It is commonly used on griddles, ovens, motors, piping and tanks.



SPECIFICAT	IONS
Accuracy	± 2% Full Scale
Sensing Element	Precision Calibrated Bimetal Coil
Dial Size	2" (5.08cm)
Dial Material	Aluminum background with black marks.
Case	Aluminum
Lens	Glass
Height	1/2" (1.27cm)
Weight	Approximately 2 ounces (56.7g)
Response Time	Approximately 1 minute.
Mounting	Two magnets on back.

TEMPERATURE RANGE

SUR-15 = 0 to 150°F & -20 to 65°C **SUR-25** = 0 to 250°F & -20 to 120°C

SUR-50 = 0 to 500°F & -20 to 260°C **SUR-75** = 50 to 750°F & 10 to 400°C

— SUR-15

HOW TO ORDER

POCKET BIMETAL THERMOMETER

K-79 Analog Dial Model

FEATURES / BENEFITS

- Accurate and Rugged
- Quick Response
- Shock Resistant
- · Sensitive Bimetal Element
- · External Reset Adjustment
- Waterproof and Dust Proof
- · Stainless Steel or Plastic Pocket Case

SPECIFICATIONS

Accuracy	± 2% Full Scale
Dial Size	1" Diameter (25mm)
Dial Material	White background with crisp letters, marks, and numbers.
Stem Length	142 O.D., 5" long, pointed (36mm x 127mm)
Pocket Case	Plastic with clip and holder loop.
Lens	Glass
Reset Nut	7/16 Hex (11mm)
Weight	0.65 Ounces (18.5g)
Packed	1 per box, 12 per carton

TEMPERATURE RANGE

Fahrenheit Ranges K-79-2 = -40°F to 160°F

K-79-3 = 0°F to 220°F

K-79-4 = 25°F to 125°F **K-79-5** = 50°F to 550°F

Celsius Ranges

K-79-7 = -10°C to 110°C K-79-8 = 0°C to 150°C K-79-9 = 0°C to 250°C K-79-2

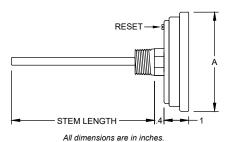
HOW TO ORDER



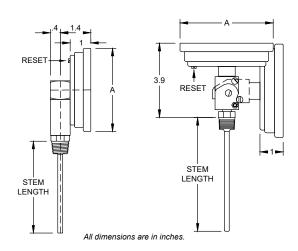
O-TEMP[™] BIMETAL THERMOMETERS

REOTEMP's O-TEMP Bimetal Thermometers are reliable and accurate temperature sensors requiring no electricity or wiring. The O-TEMP line is designed for OEM applications in a variety of industrial applications where a more economical option is needed. They can be recalibrated with a turn of the calibration screw on the back of the dial. A variety of options are available for your specific process needs.





Model	Dial Size	Connection	Α
AO	3"	1/2" NPT	3.3"
CO	4"	1/2" NPT	4.3"
ВО	5"	1/2" NPT	5.3"



Model	Dial Size	Connection	Α	Model	Dial Size	Connection	Α
XO	3"	1/2" NPT	3.3"	LO	3"	1/2" NPT	3.3"
YO	4"	1/2" NPT	4.3"	MO	4"	1/2" NPT	4.3"
VO	5"	1/2" NPT	5.3"	JO	5"	1/2" NPT	5.3"

FEATURES / BENEFITS

- **All-Stainless Construction**
- Hermetically Sealed
- Standard External Reset for Easy Calibration
- One Year Warranty

SPECIFICATION	ONS
Accuracy	Back and Adjustable: ± 1.5% Full Scale Bottom: ± 2% Full Scale
Dial Size	3", 4" or 5"
Dial Material	White background with black marks.
Stem Length	2" to 36"
Stem Diameter	1/4"
Head, Bezel, Mounting Bushing, Stems	304SS
Operating Conditions	Head temperature should not exceed 200°F. Stem should not be exposed to continuous temperatures exceeding 50% over-range or 800°F.
Environmental Protection	IP65, Hermetically Sealed
Lens	Glass (Standard), Acrylic, Polycarbonate, Tempered Glass, or Laminated Safety Glass
Immersion	Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
Mounting Connection	1/2" NPT (Standard), 1/4" NPT, or 1/2" BSPT
Temperature Sensing	Last 2" to 4" of the stem

Area

OEM Thermometers

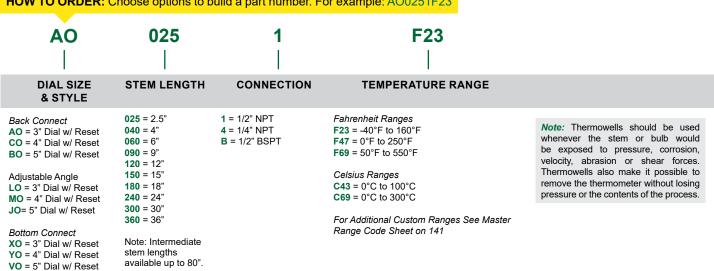


O-TEMP[™] BIMETAL THERMOMETERS

MODELS TYPICALLY IN STOCK			
Dial, Back Connect,	1/2" NPT		
0/250°F	50/550°F		
AO0251F47	AO0251F69		
AO0401F47	AO0401F69		
AO0601F47	AO0601F69		
AO0901F47	AO0901F69		
AO1201F47			
Dial, Adjustable Angle	e, 1/2" NPT		
0/250°F	50/550°F		
JO0251F47	JO0251F69		
JO0401F47	JO0401F69		
JO0601F47	JO0601F69		
JO0901F47	JO0901F69		
	Dial, Back Connect, 0/250°F AO0251F47 AO0401F47 AO0601F47 AO1201F47 Dial, Adjustable Angle 0/250°F JO0251F47 JO0401F47		

CUSTOM ORDER (MINIMUM QUANTITIES MAY APPLY)

HOW TO ORDER: Choose options to build a part number. For example: AO0251F23



PTC-0719 (800) 648-7737 sales@reotemp.com 144 reotemp.com



REMOTE DIGITAL THERMOMETER/TRANSMITTER

REOTEMP's Remote Digital Thermometer/Transmitter is a high accuracy thermometer with digital display. It features an IP67/ NEMA 4X enclosure and a 5 year battery life. The Remote Digital is perfect for a variety of markets and applications where a high accuracy digital readout is required.

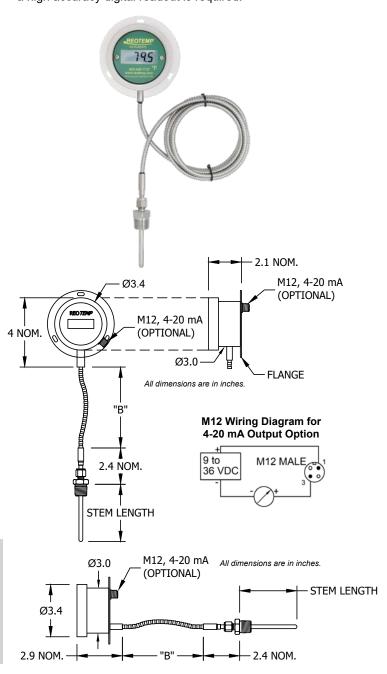


Table 1: Display Resolution			
Model	Range	Decimal Point	
Low Temp, Displays Decimal	-58°F to 392°F (-50C to 200C)	Yes	
High Temp, No Decimal	-328°F to 1112°F (-200°C to 600°C)	No	







Accuracy

Custom Logo

Made in the USA

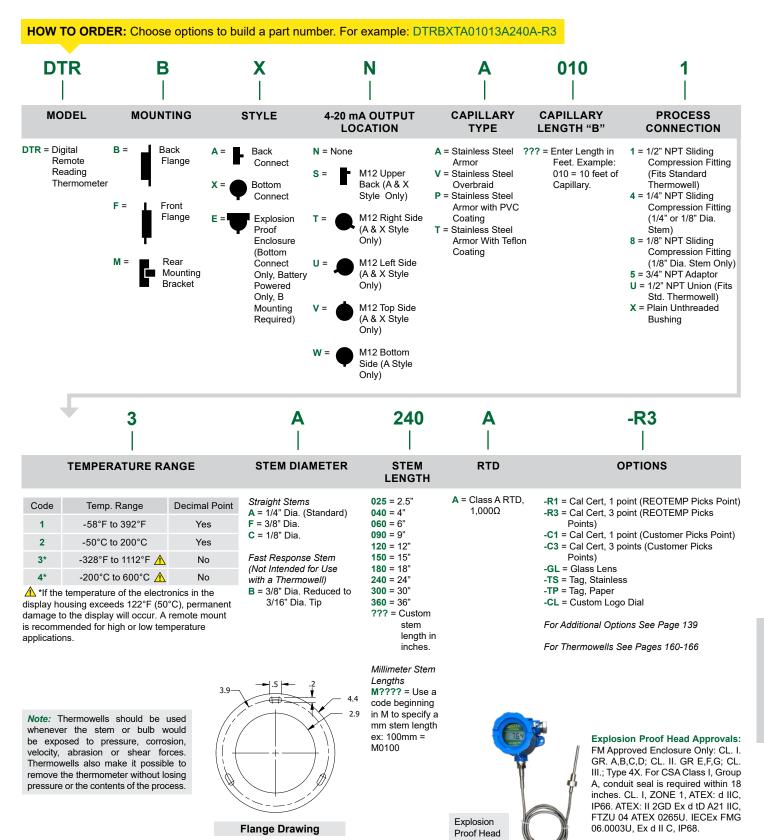
FEATURES / BENEFITS

- High Accuracy 1,000Ω RTD (Class A)
- Water Resistant IP67/NEMA 4X
- 5 Year Battery Life
- 4-20 mA Output Available
- Low or High Temperature Range Models

SPECIFICATION	ONS
Accuracy	\pm (0.72 + 0.002 x t-32) °F, \pm (0.42 + 0.002 x t) °C, where t = temperature. Example: At 32°F accuracy is \pm 0.72 °F.
Sensing Element	RTD, Type Pt1000 Ω , Class A
Temperature Ranges	-58°F to 392°F (-50°C to 200°C) or -328°F to 1112°F (-200°C to 600°C)
Output (Optional)	4-20 mA, M12 Connector
Refresh Rate	3 Seconds
Display	4-digit LCD, 1/2" Height
Display Resolution	See Table 1
RFI Effect	1% or Less Typical
Ambient Temperature Range	32°F to 122°F (0°C to 50°C)
Housing Material	Stainless Steel 316
Lens	Plastic Polycarbonate (Standard) or Glass
Probe Material	304 Stainless Steel
Weight	12 oz., Varies by Configuration
Environmental Protection	NEMA 4X/IP67
Power	1 x 3.6V AA Battery (M12 is loop powered 9-36 VDC.)
Battery Life	5 Years Minimum in Continuous Mode
Electronic Display Temperature Limit	If the temperature of the electronics in the display housing exceeds 122°F (50°C), permanent damage to the display will occur. A remote mount is recommended for high or low temperature applications.



REMOTE DIGITAL THERMOMETER/TRANSMITTER





SANITARY REMOTE DIGITAL THERMOMETER/TRANSMITTER

REOTEMP's Sanitary Remote Digital Thermometer/Transmitter is a high accuracy thermometer with digital display. It features an IP67/NEMA 4X enclosure, clean-in-place connection, and a 5 year battery life. The Digital Thermometer is perfect for brewing, food, beverage and pharmaceutical applications where a high accuracy digital readout is required.

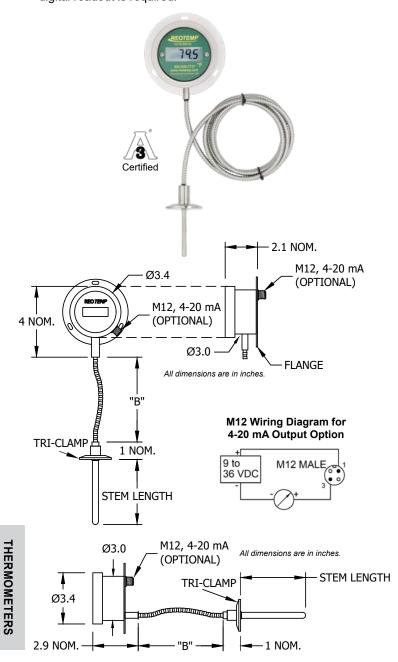


Table 1: Display Resolution			
Model	Range	Decimal Point	
Low Temp, Displays Decimal	-58°F to 392°F (-50C to 200C)	Yes	
High Temp, No Decimal	-328°F to 1112°F (-200°C to 600°C)	No	







Accuracy

Custom Logo

Made in the USA

FEATURES / BENEFITS

- 3-A Conformance Certificate Included
- High Accuracy 1,000Ω RTD (Class A)
- Water Resistant IP67/NEMA 4X
- · 5 Year Battery Life
- 4-20 mA Output Available
- · Low or High Temperature Range Models

SPECIFICATION	ONS
Accuracy	± (0.72 + 0.002 x t-32) °F, ± (0.42 + 0.002 x t) °C, where t = temperature. Example: At 32°F accuracy is ± 0.72 °F.
Sensing Element	RTD, Type Pt1000Ω, Class A
Temperature Ranges	-58°F to 392°F (-50°C to 200°C) or -328°F to 1112°F (-200°C to 600°C)
Output (Optional)	4-20 mA, M12 Connector
Refresh Rate	3 Seconds
Display	4-digit LCD, 1/2" Height
Display Resolution	See Table 1
RFI Effect	1% or Less Typical
Temperature Effect	32°F to 122°F (0°C to 50°C)
Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)
Housing Material	Stainless Steel 316
Lens	Plastic Polycarbonate (Standard) or Glass
Probe Material	304 Stainless Steel
Weight	12 oz., Varies by Configuration
Environmental Protection	NEMA 4X/IP67
Power	1 x 3.6V AA Battery (M12 is loop powered 9-36 VDC.)
Battery Life	5 Years Minimum in Continuous Mode
Electronic Display Temperature Limit	If the temperature of the electronics in the display housing exceeds 122°F (50°C), permanent damage to the display will occur. A remote mount is recommended for high temperature applications.

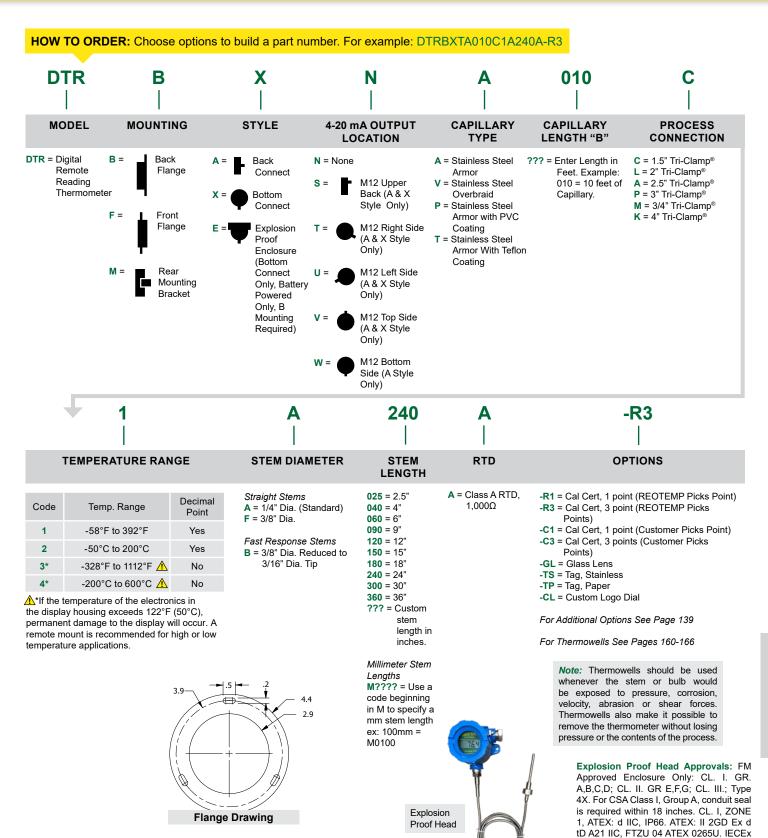
PTC-0719

FMG 06.0003U, Ex d II C, IP68.

Remote Reading Thermometers



SANITARY REMOTE DIGITAL THERMOMETER/TRANSMITTER





VAPOR ACTUATED THERMOMETER

REOTEMP's Vapor Actuated Thermometers can be fitted into a large variety of temperature indicating applications. Manufactured to the highest standards, these instruments are ideal for remote reading. Vapor actuated thermometers, are not subject to indicator error due to ambient temperature variations along the capillary tube system, and will give excellent readings provided the measured temperature is above or below ambient temperature.

Note: Vapor instruments have progressive non-linear graduations, and are best read in the upper 2/3 of the dial range. Many ranges are available between -40°F and +350°F, and care should be exercised to select a range that will locate the operating temperatures within the upper 2/3 of the dial range.



Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.





Custom Logo

Made in the USA

FEATURES / BENEFITS

- Accuracy ± 1 Scale Division (Upper 2/3 Scale)
- Ideal for Remote Reading, such as Panel Installation
- Capillary Lengths of 1 to 100 Feet
- Stainless Steel Sealed Construction
- · Variety of Flanged or U-Clamp Mounting Options
- Brass and 316SS Thermowells for Vapor-Actuated Bulbs Available.

SPECIFICATIONS

Accuracy	± 1 Scale Division (Upper 2/3 Scale)
Dial Size	2", 2 1/2", 3 1/2", 4 1/2"
Ranges	Over twenty °F and °F/°C ranges available, from -40°F to 350°F. For higher temperature ranges, please call REOTEMP to inquire about gasactuated vapor thermometers.
Case Material	All-Stainless Steel, except: VA45FL (Aluminum) and VA45TB (Phenolic)
Bulbs	Stainless Steel or Copper. Bulb O.D. 7/16" (threaded), 3/8" (plain). Bulb lengths vary from 2 1/2" to 9 1/4" depending on capillary length.
Pointer	Standard Adjustable
Lens	Polycarbonate or Glass
Process Connection	Plain Bulb, 1/2" NPT Union, 1/2" NPT sliding union on 12" bendable extension, or thermowell.
Bourdon Tube	Phosphor Bronze
Movement	Brass with Precision Gearing
Dial Material	Aluminum with white finish and black markings. Other colors available upon request.
Capillary	Copper, copper with bronze braid armor, stainless steel, stainless steel with stainless steel armor. Available lengths from 1-100ft.
Applications	Control panels, chemical processing, pipelines, food processing, OEM applications, ovens, solar heating, refrigeration, etc.

PTC-0719



VAPOR ACTUATED THERMOMETER

HOW TO ORDER: Choose options to build a part number. For example: V20FRF23D05L2

V		20	FR 			23 		D			
		CASE	STYLE			TEMPERATURE RANGE	CA	PILLARY & MATERIA			
	Part#	Dial Size	Case Material	Lens Material	Connection Location	Fahrenheit Ranges 20 = -40°F to 60°F 30 = -40°F to 100°F	Code	Capillary & Bulb	Capillary Protection		
Front Flanged	20FR	2"	SS	Polycarbonate**	Rear	32 = -20°F to 120°F	Α	Tin Plated	None		
(Panel Mount)	25FR	2.5"	SS	Polycarbonate**	Rear	72 = 0°F to 180°F 49 = 0°F to 150°F		Copper			
L	35FR	3.5"	SS	Polycarbonate**	Rear	80 = 20°F to 220°F	С	Copper	Bronze Braid		
_	45FR	4.5"	SS	Polycarbonate**	Rear	50 = 40°F to 240°F 56 = 0°F to 250°F	D	316SS	None		
F	45FL	4.5"	Black Aluminum	Glass*	Rear	60 = 30°F to 300°F †68 = 100°F to 350°	E	316SS	SS Armor		
U-Clamp	20UR	2"	SS	Polycarbonate**	Rear	Dual Scale Ranges					
	25UR	2.5"	SS	Polycarbonate**	Rear	21 = -40°F to 60°F & -40°C to					
	35UR	3.5" SS Polycarbonate** Rear 31 = -40°F to 110°F & -40°C to 40°C 33 = -20°F to 120°F & -30°C to 50°C									
Rear Flanged	20RR	2"	SS	Polycarbonate**	Rear	73 = 0°F to 180°F & -20°C to 80°C 79 = 0°F to 150°F & -15°C to 65°C 81 = 20°F to 220°F & 0°C to 105°C 51 = 40°F to 240°F & 0°C to 115°C					
(Surface Mount)	35RR	3.5"	SS	Polycarbonate**	Rear						
	35RB	3.5"	SS	Polycarbonate**	Bottom						
	45RR	4.5"	SS	Polycarbonate**	Rear	57 = 0°F to 250°F & -20°C to 120°C 61 = 30°F to 300°F & 0°C to 150°C					
וו ר	45RB	4.5"	SS	Polycarbonate**	Bottom	† 66 = 100°F to 350°F & 40°C	to 175°C				
RR RB	45TB	4.5"	Phenolic	Glass	Bottom	†Ranges 350°F and over com	e with a				
Other Styles	35SB	3.5"	SS	Polycarbonate**	Adjustable Bracket Mount	316SS capillary ONLY.					
SB	45SB	4.5"	SS	Polycarbonate**	Adjustable Bracket Mount						
I	35DA	3.5"	SS	Polycarbonate**	Direct Adjustable Mount with 3.4" Bulb & 1/2" NPT						
DA	45DA	4.5"	SS	Polycarbonate**	Direct Adjustable Mount with 3.4" Bulb & 1/2" NPT	Need Hig Ranges? customer se	Call	emperatur REOTEM inquire abo	IP		
Glass Lens Available, Polycarbonate Lens or other case styles o	Available, speci	fy "Polycarl		range only. Example	e: V45DA-80	gas-actuated		•			

05 L2 CAPILLARY LENGTH PROCESS CONNECTION

CAPILLARY LENGTH IN FEET

??? = Capillary Length in Ft. (Standard Length is 5 ft.)

Capillary available in lengths 1-100 ft.

Note: Capillary Lengths over 5 feet affect bulb length see table on page 151.

Code	Connection	Material
J1	None (Plain Bulb)	N/A
J2	Jam Nut Only	Brass (For Brass Well)
J3	Jam Nut Only	316SS
K2	1/2" NPT Union	Brass
L2	1/2" NPT Union	316SS
M2	1/2" Sliding Union on Bendable Extension	316SS (With 316SS Capilalry ONLY)
???	Thermowell .447 Bore	See Chart to Right

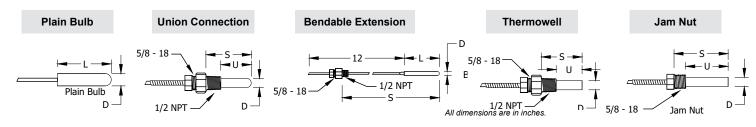
Thermowells with .447 Bore for Vapor-actuated Bulbs (Except M2)	1/2" NPT Brass	3/4" NPT Brass	1/2" NPT 316SS	3/4" NPT 316SS
(Bulb #1) 1-10 ft. Capillary	12B	13B	128	13S
(Bulb #2) 11-25 ft. Capillary	22B	23B	228	23S
(Bulb #3) 26-50 ft. Capillary	32B	33B	328	33S
(Bulb #4) 51-75 ft. Capillary	42B	43B	42S	43S
(Bulb #5) 76-100 ft. Capillary	52B	53B	52S	53S



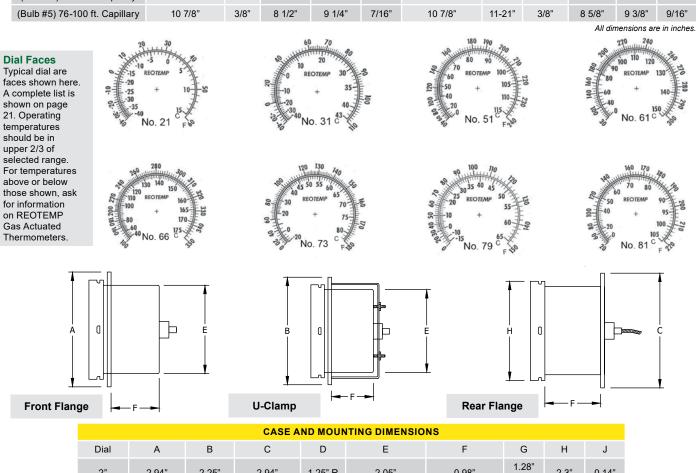




VAPOR ACTUATED THERMOMETER



			STAND	ARD BULE	DIMEN	SIONS					
	Plain Bulb Union Connection				on	Bendable Extens	Thermowell				
Capillary Length	L	D	U	S	D	L	S	D	U	S	D
(Bulb #1) 1-10 ft. Capillary	2 1/2" (1-5 ft.); 3 7/16" (6-10 ft.)	3/8"	1 13/16"	2 3/8"	7/16"	2 1/2" (1-5 ft.); 3 7/16" (6-10 ft.)	3-13"; 4-14"	3/8"	1 15/16"	2 1/2"	9/16"
(Bulb #2) 11-25 ft. Capillary	3 7/16"	3/8"	1 1/2"	3 1/4"	7/16"	3 7/16"	4-14"	3/8"	2 5/8"	3 3/8"	9/16"
(Bulb #3) 26-50 ft. Capillary	4 7/8"	3/8"	4 1/2"	5 1/4"	7/16"	4 7/8"	5-15"	3/8"	4 5/8"	5 3/8"	9/16"
(Bulb #4) 51-75 ft. Capillary	7 7/8"	3/8"	6 1/2"	7 1/4"	7/16"	7 7/8"	8-18"	3/8"	6 5/8"	7 3/8"	9/16"
(Bulb #5) 76-100 ft. Capillary	10 7/8"	3/8"	8 1/2"	9 1/4"	7/16"	10 7/8"	11-21"	3/8"	8 5/8"	9 3/8"	9/16"



			CASE A	ND MOUN	ITING DIMENSIO	NS			
Dial	Α	В	С	D	E	F	G	Н	J
2"	2.94"	2.25"	2.94"	1.25" R	2.05"	0.98"	1.28" R	2.3"	0.14"
2 1/2"	3.69"	2.81"	-	1.66" R	2.56"	1"	-	-	0.17"
3 1/2"	4.75"	3.97"	4.75"	2.16" R	3.59"	1.41" RF 0.75" UC, FR	2.16" R	3.69"	0.16"
4 1/2"	5.88" FR 6.31" FL	-	5.88" RR, RB 5.83" TB	2.69" R	4.59"	1.41" RF 0.75" UC, FF 2.56" TB 1.63" FL	2.69" R	4.69"	0.22"

dimensions are in inches

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Remote Reading Thermometers



GAS ACTUATED THERMOMETER

REOTEMP's Gas Actuated Thermometers combine advanced gas coil technology with a state-of-the-art adsorbent-(Class IV) thermal system, producing a superior temperature measurement instrument that can be fitted to a wide variety of applications. Features include high accuracy, low ambient error, no head error, and a high degree of over-range protection. The compact (3/8" diameter x 3" active length) bulb, and a wide range of case styles and thermal systems, allow great flexibility in installation. The linear dial on all REOTEMP gas thermometers provides a consistent 1% accuracy across the full span of each range. This, combined with over twenty Fahrenheit and dual ranges, from -320°F to +1200°F, provides complete coverage of all normal temperature requirements.



Looking for Smaller Sized Dials? Call REOTEMP customer service to inquire about gasactuated vapor thermometers.



Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.







Accuracy

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Made in the USA

FEATURES / BENEFITS

- · Accuracy ± 1% Full Scale
- Can Handle a Wide Temperature Range Up to 1200°F
- · Wide Variety of Wall, Panel and Direct Mounting Options
- · Capillary Lengths Up to 99 Feet
- OEM Logo Dials/Custom Dials
- · One Year Warranty

SPECIFICATION	ONS
Accuracy	±1% Full Scale, Calibration to NIST Traceable Standards
Ranges	°F, °C, and Dual Scale Ranges Available from -320°F to 1200°F (-200°C to 650°C)
Overrange	Minimum 10% of span above top of range, or 1300°F (704°C), whichever is less.
Ambient Error	1/4% of Span per 25°F Change in Ambient Temperature at Midscale
Dial Size	4-1/2" & 6" Dials, White with Black Markings
Case Material	Stainless Steel, Polypropylene, or Aluminum
Case Styles	Panel Mount, Surface Mount, or Direct (stem) Mount
Bulbs	316SS, 3/8" Diameter x 3" Active Length, Other Diameters and Lengths are Available
Thermal Systems	Stainless steel capillary with stainless steel spring armor (up to 40ft). Over 4 feet, stainless steel interlock armor is standard. Direct mount stems, 316 SS 4" to 48".
Pointer	Aluminum, Slotted Adjustable Type to Permit Zero-Set Adjustments
Lens	Glass (Standard), Safety Glass and Acrylic Options Available. Aluminum style is available with glass only.
Immersion	Minimum 2" in liquid, and 4" in gas for most ranges. Certain ranges require up to 4" in liquids & 5" in gas.
Process Connection	Plain Bulb, 1/2" NPT Union, 1/2" NPT sliding union on 12" bendable extension, or thermowell. Note: Thermowells must be used whenever the bulb would be exposed to pressure, fluid velocity, or corrosive media

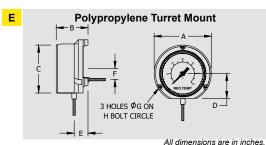


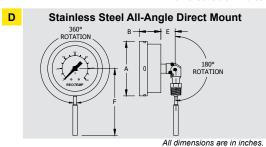
GAS ACTUATED THERMOMETER

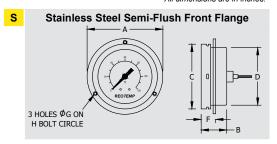
HOW TO ORDER: Choose options to build a part number. For example: G45ER87L15FBXAW



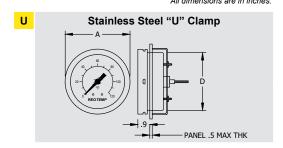
	CASE	STYLE										
CAS												
Mount Type	Case Type	Code	Connection	Dial	Α	В	С	D	Е	F	G	Н
	7.	G45ER	Rear	4 1/2"	5.83"	2.41"	5.08"	2.62"	1"	.2"	.24"	5.39"
	Polypropylene Turret Mount (E)	G45EL	Lower	4 1/2"	5.83"	2.41"	5.08"	2.62"	1"	.2"	.24"	5.39"
		G45KR	Rear	4 1/2"	5.88"	2.15"	5.04"	-	-	-	.22"	5.38"
Wall Mount	Stainless Steel	G45KL	Lower	4 1/2"	5.88"	2.15"	5.04"	-	-	-	.22"	5.38"
Back	Back Flange (K)	G60KR	Rear	6"	7.5"	2.15"	6.38"	-	-	-	.25"	6.84"
		G60KL	Lower	6"	7.5"	2.15"	6.38"	-	-	-	.25"	6.84"
	Stainless Steel Direct Mount All-Angle Direct Mount (D)	G45DA	Adjustable	4 1/2"	5.04"	2"	-	-	1.7"	-	-	-
Direct Mount		G60DA	Adjustable	6"	6.38"	2.15"	-	-	1.7"	-	-	-
	Aluminum Front	G45FR	Rear	4 1/2"	6.31"	1.63"	-	4.88"	-	1.35"	.19"	5.38"
	Flange Hinge Ring (F)	G60FR	Rear	6"	7.87"	1.59"	-	6.34"	-	1.75"	.19"	6.69"
Panel Mount	Stainless Steel	G45SR	Rear	4 1/2"	5.88"	2.15"	5.04"	4.51"	-	1"	.22"	5.38"
	Semi-Flush Front Flange (S)	G60SR	Rear	6"	7.5"	2.15"	6.38"	5.88"	-	1"	.25"	6.84"
	Stainless Steel	G45UR	Rear	4 1/2"	5.04"	-	-	4.51"	-	-	-	-
	"U" Clamp (U)	G60UR	Rear	6"	6.38"	-	-	5.88"	-	-	<u>.</u> -	-
										All dimer	nsions are	in inches.









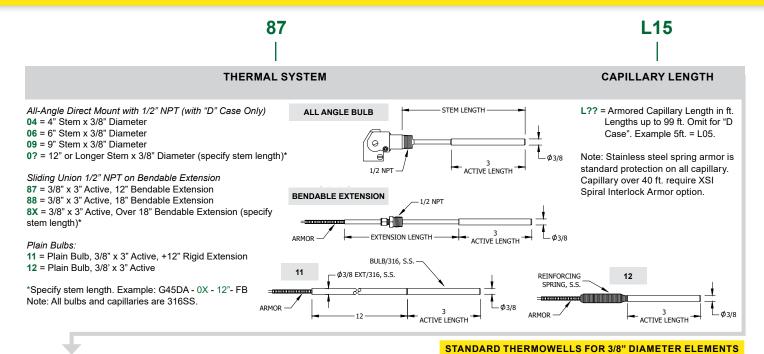


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Remote Reading Thermometers



GAS ACTUATED THERMOMETER



FB XAW TEMPERATURE RANGE ACCESSORIES &

Ranges & Minor Divisions

FB = -320° F to 100° F, 5°

FE = -120°F to 120°F, 2°

FG = -40° F to 180° F, 2°

FH = 0°F to 120°F, 1°

FJ = 60° F to 120° F, 1°

FL = 20°F to 240°F, 2°

 $FN = 0^{\circ}F \text{ to } 300^{\circ}F, 5^{\circ}$

 $F0 = 150^{\circ}F \text{ to } 450^{\circ}F.5^{\circ}$

FP = 50° F to 550° F, 5°

FR = 50° F to 750° F, 5°

FT = 400°F to 1200°F, 10°

FX = 0°F to 1000°F, 10°

CD = -200° C to 100° C, 5°

CI = 0°C to 120°C. 1°

CT = 200°C to 650°C, 5°

Dual Scale Ranges & Divisions

DB = -320°F to 100°F & -200°C to 40°C. 5° & 2°

DE = -120°F to 120°F & -85°C to 50°C, 2° & 1°

DG = -40° F to 180° F & -40° C to 80° C, 2° & 2°

DH = 0°F to 120°F & -15°C to 50°C, 1° & 1°

DJ = 60° F to 120° F & -15° C to 50° C, 1° & $1/2^{\circ}$

DL = 20°F to 240°F & -5°C to 110°C, 2° & 1° **DN** = 0°F to 300°F & -10°C to 150°C, 5° & 1°

D1 = 150°F to 450°F & 70°C to 230°C, 5° & 1°

DP = 50°F to 550°F & 10°C to 290°C, 5° & 5°

DR = 50°F to 750°F & 0°C to 400°C, 5° & 5°

DT = 400°F to 1200°F & 200°C to 650°C, 10° & 5°

OPTIONS

XAW = Acrylic Window*

XSG = Safety Glass Window*

XFR = Flush Mounting Ring for "E" Case

XBF = 1/2" NPT Compression

Fitting for #11 Bulb

(Attaches to 12'

Extension, not Bulb) XCF = 1/2" NPT Compression

Fitting (Attaches to Spiral Interlock Armor, For #12 Bulb Only. Requires XSI

Option.) XSI = Spiral Interlock Armor (Required over 40 Feet)

XVD = Vibration Dampening

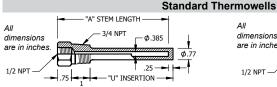
Feature (Dampens Vibration - Available in all Rear Connected Models)

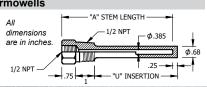
XTW = Thermowell (See Thermowell Table Below for Order Codes)

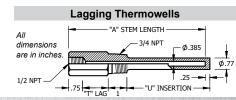
*Not Available for Aluminum Front Flange Hinge Ring (F) Case, F Case is Glass Only

	Р	Α	U	304SS	316SS
		4"	2 1/2"	ST4304-SB3	ST4316-SB3
		6"	4 1/2"	ST6304-SB3	ST6316-SB3
		9"	7 1/2"	ST9304-SB3	ST9316-SB3
	3/4" NPT	12"	10 1/2"	ST12304-SB3	ST12316-SB3
		15"	13 1/2"	ST15304-SB3	ST15316-SB3
		18"	16 1/2"	ST18304-SB3	ST18316-SB3
		24"	22 1/2"	ST24304-SB3	ST24316-SB3
		4"	2 1/2"	ST4304-HSB3	ST4316-HSB3
		6"	4 1/2"	ST6304-HSB3	ST6316-HSB3
		9"	7 1/2"	ST9304-HSB3	ST9316-HSB3
	1/2" NPT	12"	10 1/2"	ST12304-HSB3	ST12316-HSB3
		15"	13 1/2"	ST15304-HSB3	ST15316-HSB3
		18"	16 1/2"	ST18304-HSB3	ST18316-HSB3
		24"	22 1/2"	ST24304-HSB3	ST24316-HSB3

P A U T 304SS 316SS 6" 2 1/2" 2" LG6304-SB3 LG6316-SB3 9" 4 1/2" 3" LG9304-SB3 LG9316-SB3 12" 7 1/2" 3" LG12304-SB3 LG12316-SB3 15" 10 1/2" 3" LG15304-SB3 LG15316-SB3 18" 13 1/2" 3" LG18304-SB3 LG18316-SB3		LAGGIN	G THE	RMOWEL	LS FC	OR 3/8" DIAMETE	RELEMENTS
9" 4 1/2" 3" LG9304-SB3 LG9316-SB3 12" 7 1/2" 3" LG12304-SB3 LG12316-SB3 15" 10 1/2" 3" LG15304-SB3 LG15316-SB3 18" 13 1/2" 3" LG18304-SB3 LG18316-SB3		Р	Α	U	Т	304SS	316SS
3/4" NPT 12" 7 1/2" 3" LG12304-SB3 LG12316-SB3 15" 10 1/2" 3" LG15304-SB3 LG15316-SB3 18" 13 1/2" 3" LG18304-SB3 LG18316-SB3			6"	2 1/2"	2"	LG6304-SB3	LG6316-SB3
3/4" NPT		9"	4 1/2"	3"	LG9304-SB3	LG9316-SB3	
15" 10 1/2" 3" LG15304-SB3 LG15316-SB3		3/4" NPT	12"	7 1/2"	3"	LG12304-SB3	LG12316-SB3
All 18" 13 1/2" 3" LG18304-SB3 LG18316-SB3			15"	10 1/2"	3"	LG15304-SB3	LG15316-SB3
	dimensions		18"	13 1/2"	3"	LG18304-SB3	LG18316-SB3
dimensions 24" 19 1/2" 3" LG24304-SB3 LG24316-SB3			24"	19 1/2"	3"	LG24304-SB3	LG24316-SB3







are in inches





DIRECT DRIVE REMOTE THERMOMETER

REOTEMP's Rugged Direct Drive System makes our series 45G the right choice for temperature indication in heavy-duty or high vibration applications. The all-stainless steel case and internals, along with the direct drive system, result in superior instrument life in severe environments.

Available in Four Styles

- WALL MOUNTED
- **FLUSH MOUNTED**
- FRONT FLANGE
- ADJUSTABLE WALL









Accuracy Custom Logo Made in the USA

FEATURES / BENEFITS

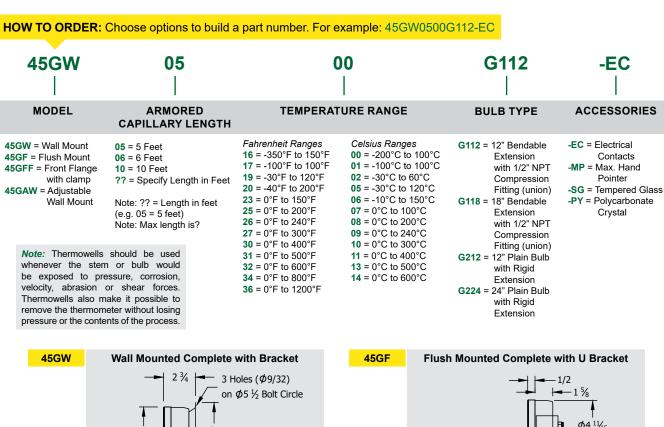
- Accuracy ± 1% of Range Span
- Can handle a wide temperature range up to 1200°F
- Heavy-Duty Vibration and Shock Resistant
- Stainless Steel Sealed Construction
- Various mounting options available

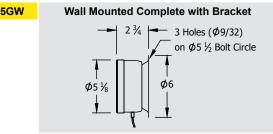
SPECIFICAT	SPECIFICATIONS					
Accuracy	±1% of Range Span					
Dial	4 1/2" Satin finish aluminum with black lines and numbers.					
Case Material	Stainless Steel					
Bulb	Stainless Steel Welded Construction					
Actuation	Nitrogen through Stainless Steel Direct Drive Bourdon Coil					
Pointer	Micrometer Adjustment Type					
Lens	Gasket Sealed Glass (Standard); Plexi Glass					
Capillary	Stainless steel protected by 1/4" diameter, Flexible Stainless Steel Armor or 3/16" diameter Plain Armor					



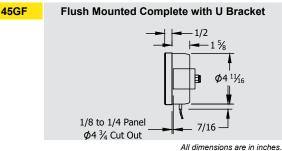


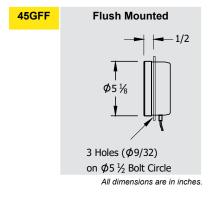
DIRECT DRIVE REMOTE THERMOMETER



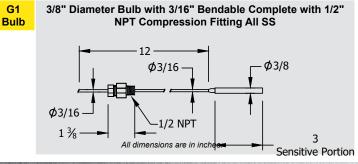


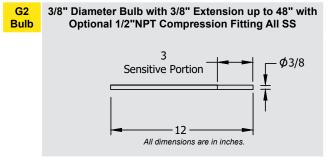
All dimensions are in inches.





45GAW Adjustable Wall Mounted Complete with Flange 2 3/1 3 Holes (ϕ 9/32) on ϕ 2 $\frac{5}{16}$ Bolt Ci All dimensions are in inches.







DIRECT DRIVE ALL ANGLE THERMOMETER

REOTEMP's Rugged Direct Drive System makes our 45GR and 45LR the right choice for temperature indication in heavy- duty or high vibration applications. The all-stainless steel case and internals, along with the direct drive system, result in superior instrument life in severe environments.





Pointer

Lens

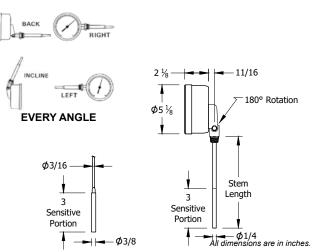




Accuracy Custom Logo Made in the USA

FEATURES / BENEFITS

- Accuracy ± 1% of Range Span
- Can handle a wide temperature range up to 1200°F.
- Heavy-Duty Vibration and Shock Resistant
- Stainless Steel Sealed Construction
- Adjustable to any angle.



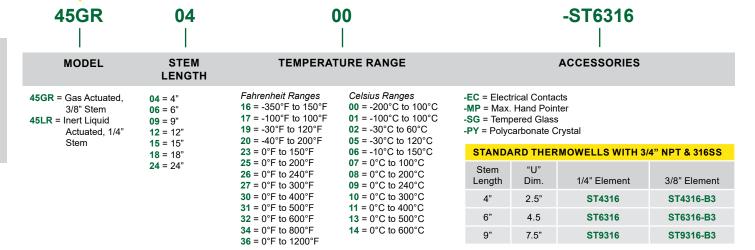
SPECIFICATIONS ±1% of Range Span **Accuracy** Dial 4 1/2" Satin finish aluminum with black lines and numbers. **Case Material** Stainless Steel Bulb Stainless Steel Welded Construction Actuation 45LR - Inert Liquid thru Stainless Steel Direct Drive Bourdon Coil. 45GR -Nitrogen thru Stainless Steel Direct Drive Bourdon Coil.

Micrometer Adjustment Type

Polycarbonate

Gasket Sealed Glass (Standard):

HOW TO ORDER: Choose options to build a part number. For example: 45GR0400-ST6316



For Additional Thermowell Types, See Pages 160-166



LIQUID-IN-GLASS THERMOMETER

REOTEMP's Liqiud-In-Glass Industrial Thermometers are used in pipelines of all types, commercial building application (heating & cooling), process piping, tanks, boilers, etc.





Made in the USA

FEATURES / BENEFITS

- Made to ASME B40.3 Specifications
- Accuracy ± 1% Full Scale. (ASME B40.3)
- One Year Warranty

SPECIFICATIONS

Accuracy: ± 1% Full Scale. (ASME B40.3)

Case: Modern V-shape design with parts molded of polyester, in black textured finish. Heavy glass protected front firmly secured by spring action.

Stem: Tapered bulb chambers are made of precision ground aluminum. The tapered chamber forms a metal contact with matching taper in the sockets assuring maximum speed of response to temperature changes. Graphite is used as a conducting media between bulb chamber and glass tube.

Locking Device: Adjustable case locknut and angle adjusting screw work independently to provide full 360° positioning of thermometer case and stem.

Tube & Capillary: Blue Spirit filled magnifying lens tube. Precision made to guarantee accuracy within 1% of scale range. Silicone shock mounting for lasting durability.

Scale: 9" scale with white coated aluminum and permanently baked bold black markings.

HOW TO ORDER: Choose options to build a part number. For example: 9VS35016SOC35B

9VS35 016

SOC35B

STANDARD THERMOWELLS (SEPERABLE SOCKETS) WITH 3/4" NPT

Note: Thermowells should be used whenever the stem or bulb would be exposed to pressure, corrosion, velocity, abrasion or shear forces. Thermowells also make it possible to remove the thermometer without losing pressure or the contents of the process.

STEM TEMPERATURE RANGE THERMOWELL

9VS35 = 3 1/2" 9VS06 = 6" 9VS09 = 9"

Standard Thermowell

Fahrenheit Ranges **411** = -40°F to 110°F; 2° 118 = -10°F to 180°F; 2° 212 = -20°F to 120°F; 2° 012 = 0°F to 120°F: 1° **016** = 0° F to 160° F; 2° 318 = 30°F to 180°F; 2°

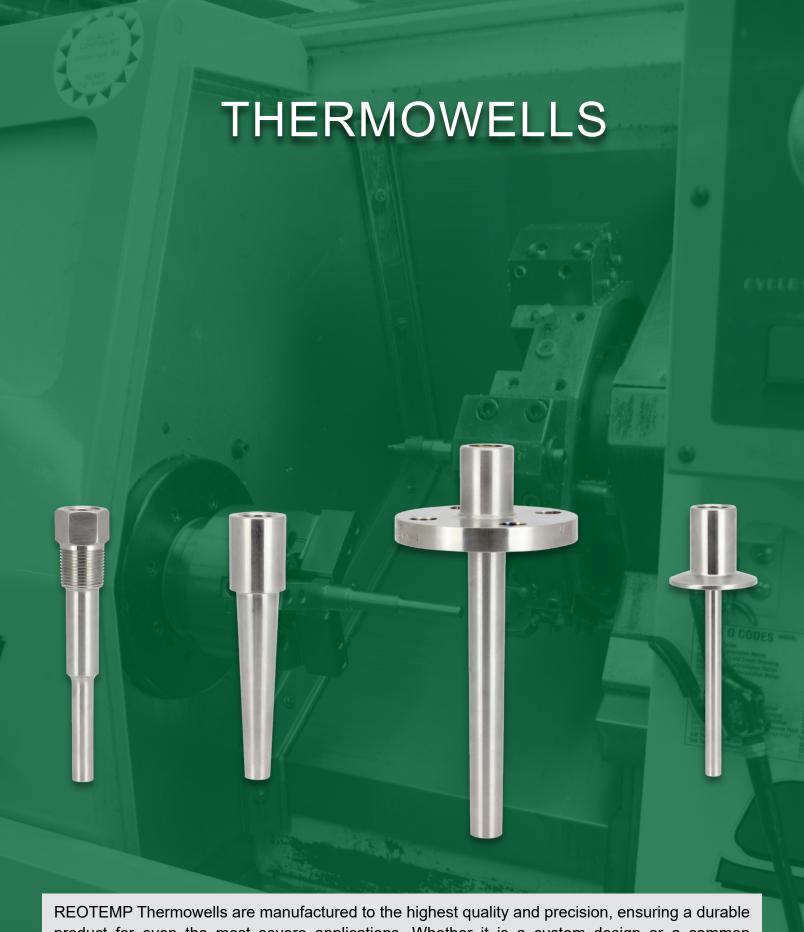
324 = 30°F to 240°F; 2° 330 = 30°F to 300°F; 2° 042 = -20°C to 45°C; 1° **050** = 0° C to 50° C; 1° 100 = 0°C to 100°C; 1° 162 = 0°C to 160°C: 2° **200** = 0° C to 200° C; 2°

Celsius Ranges

T- U-
A
w/ Extension Neck (Lag)

0174	OTANDAND THERMOMELES (SET ENABLE SOCIALIS) WITH SAF IN T				
Material	Socket Style	"A" Stem Length	"U" Insertion Length	"T" Extension Length	Code
		3 1/2"	2 1/2"	N/A	SOC35B
	Standard	6"	5"	N/A	SOC06B
Brass		9"	8"	N/A	SOC09B
	Extension	6"	2 1/2"	2 1/2"	SEN06B
Neck	Neck	9"	5 1/2"	2 1/2"	SEN09B
		3 1/2"	2 1/2"	N/A	SOC35S
	Standard	6"	5"	N/A	SOC06S
304SS Exte		9"	8"	N/A	SOC09S
	Extension	6"	2 1/2"	2 1/2"	SEN06S
	Neck	9"	5 1/2"	2 1/2"	SEN09S
All dimensions are in inches					

All dimensions are in inches



REOTEMP Thermowells are manufactured to the highest quality and precision, ensuring a durable product for even the most severe applications. Whether it is a custom design or a common configuration, REOTEMP responds quickly to exceed customer requirements.



THREADED THERMOWELLS

REOTEMP Threaded Thermowells make it possible to remove an instrument without dropping pressure or losing contents of the process. Thermowells also protect the instrument from getting bent by the process media. Threaded thermowells are perfect for applications that require infrequent replacement and are commonly installed on smaller pipes or vessels. They are best suited for non-corrosive media. REOTEMP threaded thermowells are machined from solid bar stock.





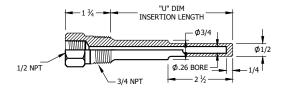
FEATURES / BENEFITS

- Machined from Solid Material
- Protects Your Instrument from the Process
- Easy Removal of Instrument for Calibration or Replacement

OPTIONS

- Wake Frequency Calculation
- Hydrostatic Test
- **NACE** Certified
- **Material Certificate**
- Special Marking (Stamping)
- Plug & Chain
- PMI

Standard



All dimensions are in inches.

Lagging "T" LAG "U" DIM

S1	STANDARD DIMENSIONS					
Stem "A"	Standard "U"	Lagging "U"	Overall Length			
2.5"	1.625"	N/A	2.875"			
4"	2.5"	N/A	4.25"			
6"	4.5"	2.5"	6.25"			
9"	7.5"	4.5"	9.25"			
12"	10.5"	7.5"	12.25"			

Ø.26 BORE

Ø1/2



THREADED THERMOWELLS



Visit reotemp.com

- √ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: ST6316-ML

ST	6	316	-			-ML
TYPE	"A" STEM LENGTH	MATERIAL	PROCESS CONNECTION	SHANK	BORE DIAMETER	OPTIONS

2 = 1.5" NPT

ST = Threaded LG = Threaded Lagging

2.5 = 2.5" 4 = 4" 6 = 6" 9 = 9"

12 = 12"

304 = 304SS **316** = 316SS

316L = 316L SS B = Brass

C = Carbon Steel (1018) G = Hastelloy B

H = Hastelloy C M = Monel/A400 T = Titanium

Y = Inconel 600 A = Alloy 105 Carbon Stainless Steel **D** = Alloy 20

5 = F5 Alloy P = PTFE Coated 316SS N = F22 Alloy

Other materials available. Contact **REOTEMP** customer service for more information.

" " = Stepped " " = .260 (std.)

" " = 3/4" NPT (std.) 1 = 1" NPT (std.)* **B3** = .385 H = 1/2" NPT T = Tapered B5 = .515**I3** = 3/4" NPT

S = Straight *Not available

with .385 bore. Other bore and internal thread

Internal

Thread

sizes available.

EP = External Pressure Test

IT = Internal Pressure Testing (5 min. test)

MT = Material Certificate

ML = Mill Certificate

MR = NACE MR-01-75 Approval M3 = NACE MR-01-03 Approval

PM = Positive Material Identification (PMI)

P4 = SS 304 Plug & Chain

P6 = SS 316 Plug & Chain

PB = Brass Plug & Chain

R2 = Special Surface Finish (Ra 20 max)

T1 = Tantalum Coating/ Halar Coating

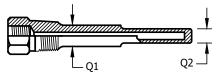
T2 = Teflon Coating (Specify PFA or PTFE)

T3 = Tungsten Carbide Coating

TM = Special Marking (Stamping)

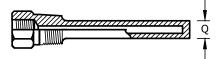
TS = SS Tag (attached)

WK = Wake Frequency Calculation



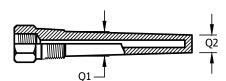
All dimensions are in inches.

STEPPED SHANK					
Bore Dia.	Ext. Thread Size	Shank Dia. "Q1" (U>2.5)	Shank Dia. "Q2"		
.260"	1/2" NPT	.625"	.500"		
.260"	3/4" NPT	.750"	.500"		
.260"	1" NPT	.875"	.500"		



All dimensions are in inches.

	STRAIGHT SHANK						
Bore Dia.	Ext. Thread Size	Shank Dia. "Q" (U≤2.5)	Shank Dia. "Q" (U>2.5)				
.260"	1/2" NPT	.500"	.625"				
.260"	3/4" NPT	.500"	.625"				
.260"	1" NPT	.750"	.875"				
.385"	1/2" NPT	.680"	.680"				
.385"	3/4" NPT	.766"	.766"				
.385"	1" NPT	.875"	.875"				



All dimensions are in inches.

	TAPERED SHANK					
Bore Dia.	Ext. Thread Size	Shank Dia. "Q1"	Shank Dia. "Q2"			
.260"	1/2" NPT	.680"	.625"			
.260"	3/4" NPT	.875"	.625"			
.260"	1" NPT	1.062"	.625"			
.385"	1/2" NPT	.680"	.625"			
.385"	3/4" NPT	.875"	.766"			
.385"	1" NPT	1.062"	.766"			



WELDED THERMOWELLS

REOTEMP Welded Thermowells make it possible to remove an instrument without dropping pressure or losing the contents of the process. Thermowells also protect the instrument from getting bent by the process media. Weld-in thermowells are welded directly to a pipe or tank, providing a very high quality connection. Because they are welded, they should only be used when access is not required and corrosion is not an issue. Common installations include high temperature and high pressure applications with non-corrosive media. REOTEMP weld-in thermowells are machined from bar stock.



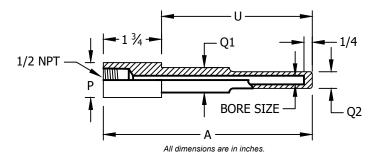


FEATURES / BENEFITS

- **High Quality Connection**
- Ideal for High Temperature and High Pressure Applications with Non-corrosive Media
- Socket Weld or Standard Weld-in
- Easy Removal of Instrument for Calibration or Replacement

OPTIONS

- Wake Frequency Calculation
- Hydrostatic Test
- **NACE** Certified
- Material Certificate
- Special Marking (Stamping)
- Plug & Chain
- PMI



S	OCKET WE	LD STRAI	GHT SHAN	IK .
Bore Dia. "B"	Nominal Pipe Size "P"	O.D. "D"	Shank Dia. "Q2" (U≤2.5)	Shank Dia. "Q2" (U>2.5)
.260"	3/4"	1.050"	.500"	.750"
.260"	1"	1.315"	.750"	.875"
.260"	1.5"	1.900"	1.00"	1.12"
.385"	3/4"	1.050"	.766"	.766"
.385"	1"	1.315"	.766"	.875"
.385"	1.5"	1.900"	1.00"	1.12"

	SOCKET WELD STEPPED SHANK						
Bore Dia. "B"	Nominal Pipe Size "P"	O.D. "D"	Shank Dia. "Q1" (U≤2.5)	Shank Dia. "Q1" (U>2.5)	Shank Dia. "Q2"		
.260"	3/4"	1.050"	.500"	.750"	.500"		
.260"	1"	1.315"	.750"	.875"	.500"		
.260"	1.5"	1.900"	1.000"	1.120"	.500"		

S	SOCKET WELD TAPERED SHANK						
Bore Dia. "B"	Nominal Pipe Size "P"	O.D. "D"	Shank Dia. "Q1"	Shank Dia. "Q2"			
.260"	3/4"	1.050"	.750"	.625"			
.260"	1"	1.315"	1.000"	.625"			
.260"	1.5"	1.900"	1.370"	.625"			



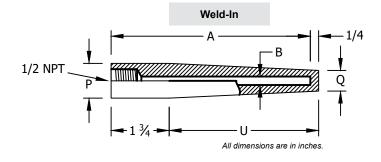
WELDED THERMOWELLS



- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: SW6316-P1T-ML

sw 	6 	316	- P1	T	1	-ML
TYPE	"A" STEM LENGTH	MATERIAL	PROCESS CONNECTION	SHANK	BORE DIAMETER	OPTIONS
SW = Socket Weld SWL = Socket Weld w/ Lagging WI = Weld-In WIL = Weld-In w/ Lagging	2.5 = 2.5" 4 = 4" 6 = 6" 9 = 9" 12 = 12"	304 = 304SS 316 = 316SS 316L = 316L SS B = Brass C = Carbon Steel (1018) G = Hastelloy B H = Hastelloy C M = Monel/A400 T = Titanium Y = Inconel 600 A = Alloy 105 Carbon Stainless Steel D = Alloy 20 5 = F5 Alloy P = PTFE Coated 316SS N = F22 Alloy Other materials available. Contact REOTEMP customer	" " = 3/4" Pipe Nominal (1.050" OD) (std.) P1 = 1" Pipe Nominal (1.315" OD) P2 = 1.5" Pipe Nominal P3 = 2" Pipe Nominal	"" = Stepped (std.)* T = Tapered S = Straight *Not available with .385 bore.	"" = .260 (std.) B3 = .385 B5 = .515 I3 = 3/4" NPT Internal Thread Other bore and internal thread sizes available.	EP = External Pressure Test IT = Internal Pressure Testing (5 min. test) MT = Material Certificate ML = Mill Certificate MR = NACE MR-01-75 Approval M3 = NACE MR-01-03 Approval PM = Positive Material Identification (PMI) P4 = SS 304 Plug & Chain P6 = SS 316 Plug & Chain P8 = Brass Plug & Chain R2 = Special Surface Finish (Ra 20 max) T1 = Tantalum Coating/ Halar Coating T2 = Teflon Coating (Specify PFA or PTFE) T3 = Tungsten Carbide Coating TM = Special Marking (Stamping) TS = SS Tag (attached) WK = Wake Frequency Calculation



service for more information.

WE	WELD-IN TAPERED SHANK					
Bore Dia. "B"	Nominal Pipe Size "P"	O.D. "D"	Tip Dia "Q"			
.260 in	3/4"	1.050"	.625"			
.200 111	1"	1.315"	.766"			
.385 in	3/4"	1.050"	.625"			
.303 III	1"	1.315"	.766"			

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FLANGED THERMOWELLS

REOTEMP's Flanged Thermowells make it possible to remove an instrument without dropping pressure or losing contents of the process. Thermowells also protect the instrument from getting bent by the process media. Flanged thermowells are the preferred well for applications that require frequent removal or replacement due to corrosion or other hazards. Flanged wells bolt to a mating flange that is installed on the process piping. Common installations include large pipes with high pressure and high corrosion.



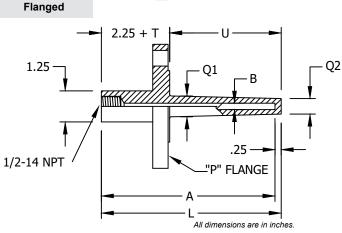


FEATURES / BENEFITS

- Die Stamped with Material
- Ideal for High Pressure and High Corrosion Applications Requiring Frequent Replacement
- Easy Removal of Instrument for Calibration or Replacement

OPTIONS

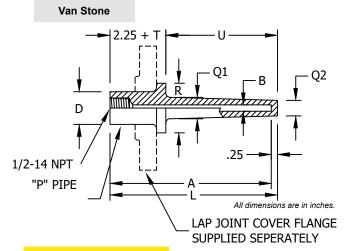
- Wake Frequency Calculation
- Hydrostatic Test
- **Full Penetration Welds**
- **NACE** Certified
- **Material Certificates**
- PMI



TAPERED SHANK					
Bore Dia. "B"	Flange Size	Shank Dia. "Q1"	Shank Dia. "Q2"		
.260"	3/4"	.750"	.625"		
.260"	1"	.875"	.625"		
.260"	1-1/2" & up	1.062"	.625"		
.385"	3/4"	.750"	.625"		
.385"	1"	.875"	.766"		
.385"	1-1/2" & up	1.062"	.766"		

STEPPED SHANK					
Bore Dia. "B"	Shank Dia. "Q1"	Shank Dia. "Q2"			
.260"	.750"	.500"			

STRAIGHT SHANK					
Bore Dia. "B"	Shank Dia. "Q2"				
.260"	.750"				
.385"	.875"				



VAN STONE SIZE					
Nominal Pipe Size "P"	O.D. "D"	Raised Face Dia. "R"			
1"	1.315"	2.000"			
1.5"	1.900"	2.875"			

VAN STONE					
Bore Dia. "B"	Shank Dia. "Q"				
.260"	.750"				
.385"	.875"				

Thermowells



FLANGED THERMOWELLS



Visit reotemp.com

- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Generate a Custom Engineering Drawing

HOW TO ORDER: Choose options to build a part number. For example: 151R2STU040L062-ML

15	1	R 	2 	S	T 	U040	DL062
FLANGE SIZE	FLANGE RATING	SEALING FACE	BORE DIAMETER	MATERIAL	SHANK STYLE		NS & OVERALL IGTH
05 = 1/2" 07 = 3/4" 10 = 1"	1 = 150# 3 = 300# 6 = 600#	R = Raised Face F = Flat Face J = RTJ (Ring	2 = .260" (For 1/4" Stem) 3 = .385" (For 3/8"	S = 316SS F = 304SS C = Carbon Steel	T = Tapered S = Straight P = Stepped*	"U" Dimensions U020 = 2"	Overall Length L042 = 4.25"

15 = 1.5" 20 = 2" 6 = 600# 9 = 900 - 1500#	= 900 - 1500# Type Joint) Stem)	Stem) Q = Other (Specify)	D = Carp. 20/Alloy 20 G = Hastelloy B	R = Tapered w/ Support Ring	U04	
25 = 2.5"	5 = 2500#	ify)	(1)	H = Hastelloy C	Q = Other	U07
30 = 3" V = VanStone		*Not available with .385 bore.	L = F11 Alloy M = Monel	*Not available	U100	
				Y = Inconel (600) U = Tantalum Lined	with .385 bore.	U130
				U - Taritalum Lineu		11460

Z = Zirconium (316 flg) **V** = 317SS T = Titanium K = 316/Stellite Coating 2 = Alloy 20 **5** = F5 Alloy N = F22 Alloy P = PTFE Coated

316SS

ength 25" 40 = 4" **L062 =** 6.255" **70** = 7" L092 = 9.25" **00 =** 10" L122 = 12.25" **30 =** 13" L152 = 15.25" **U160 =** 16" L182 = 18.25" **U220 =** 22" **L242 =** 24.25" **U225 = 22.5" L247** = 24.75" **M250 =** 250mm M307 = 307mm Note: Rows above indicate

standard pairings, for example: a 2" U dimension comes standard with a 4.25" overall length.



OPTIONS

EP = External Pressure Test

6 = 600#

IT = Internal Pressure Testing (5 min. test)

MT = Material Certificate

ML = Mill Certificate

MR = NACE MR-01-75 Approval

M3 = NACE MR-01-03 Approval

PM = Positive Material Identification (PMI)

P4 = SS 304 Plug & Chain

P6 = SS 316 Plug & Chain

PB = Brass Plug & Chain

R2 = Special Surface Finish (Ra 20 max)

T1 = Tantalum Coating/ Halar Coating

T2 = Teflon Coating (Specify PFA or PTFE)

T3 = Tungsten Carbide Coating

TM = Special Marking (Stamping) TS = SS Tag (attached)

WK = Wake Frequency Calculation

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sales@reotemp.com



SANITARY THERMOWELLS

REOTEMP's Sanitary Thermowells make it possible to remove an instrument without dropping pressure or losing contents. Each stainless steel Thermowell is die stamped with type of material from which it is made. Sanitary wells have a smooth surface (RA32 or Better) and a Tri-Clamp® connection which allows for easy cleaning to prevent contamination of the process. They are used in the Dairy, Food Processing and Pharmaceutical industries.



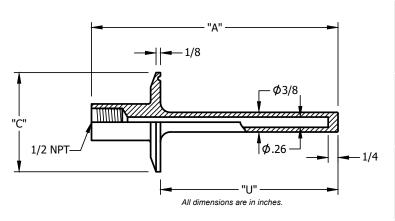




FEATURES / BENEFITS

- Smooth Surface for Easy Cleaning (RA32 or Better)
- Provides Sanitary Protection for Temperature Probes
- All 316L Stainless Steel Construction
- Fast Installation and Removal
- Ideal for Food, Beverage, Biotech, and Pharmaceutical **Applications**
- Exceeds 3A #4 Finish
- Easy Removal of Instrument for Calibration or Replacement

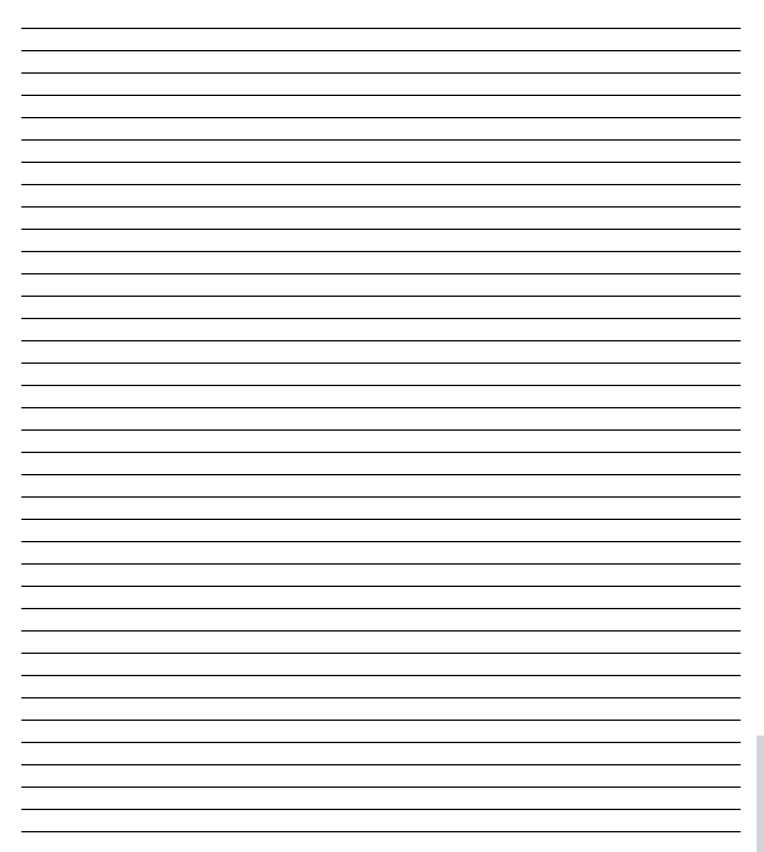
HOW TO ORDER: Choose a code to make your selection. For example: STF1.5-2.5



Tri-Clamp® Size	"A" Stem Length	"U" Dimension	"C" Dimension	Code
	2-1/2"	1-5/8"		STF1.5-2.5
1-1/2"	4"	2-1/2"	2"	STF1.5-4
1-1/2	6"	4-1/2"	2	STF1.5-6
	9"	7-1/2"		STF1.5-9
	2-1/2"	1-5/8"		STF2-2.5
2"	4"	2-1/2"	2.5"	STF2-4
Σ"	6"	4-1/2"	2.5	STF2-6
	9"	7-1/2"		STF2-9
	2-1/2"	1-5/8"		STF2.5-2.5
2-1/2"	4"	2-1/2"	3"	STF2.5-4
2-1/2	6"	4-1/2"	3	STF2.5-6
	9"	7-1/2"		STF2.5-9
	2-1/2"	1-5/8"		STF3-2.5
3"	4"	2-1/2"	3.6"	STF3-4
3	6"	4-1/2"	3.0	STF3-6
	9"	7-1/2"		STF3-9

THERMOWELLS

NOTES





WARRANTY & EVALUATION POLICY

REOTEMP warrants all pressure and temperature measurement products against defective workmanship or materials under normal use and service for the following periods after the date of shipment.

FIVE YEAR WARRANTY

 Process Grade Bimetal Thermometers (3", 4", and 5" dial sizes)

THREE YEAR WARRANTY

- Industrial Pressure and Differential Pressure Gauges
- Valves and Manifolds

ONE YEAR WARRANTY

- · Diaphragm Seals
- · Pressure Transmitters and Switches
- OEM Bimetal Thermometers
- · Digital Thermometers
- · Remote Reading Thermometers
- Thermowells
- · Accessories and Other Items

REOTEMP's liability is limited to repair or replacement at the factory, shipping charges prepaid. This warranty does not cover deterioration from normal wear and tear, exposure to corrosive materials, exposure to temperatures or pressures in excess of those recommended, excessive vibration, forces, or abrasion which cause deformation of component parts. This warranty is expressly in lieu of any other warranty, expressed or implied. REOTEMP shall not be liable for any defect or consequential damages arising out of any defects or from any cause whatsoever. Suitability of product for the customer's application rests with the customer; REOTEMP does not warrant suitability of its products for the application chosen by the customer.

REOTEMP will only accept shipments with returned product that are accompanied with a return authorization issued by REOTEMP. Please respect the health and safety of our employees by cleaning goods before return, disclosing any chemicals or foreign substance that may be on returned product and enclosing MSDS information. Handling and cleaning fees may apply.

REOTEMP reserves the right to make product improvements and change its specifications stated throughout the catalog at any time without notification. Please contact the factory on all critical dimensions and specifications for verification.

REOTEMP'S GUIDING PRINCIPLES

- Provide industry leading customer satisfaction with a focus on fast turnaround, friendly service and keeping it easy to do business with REOTEMP. Make it Quick and Easy!
- Focus on manufacturing quality instruments, continuous improvement and adding value to our product and services.
- > Build long-lasting and rewarding relationships with the people we do business with.

- > Maintain an enjoyable, fulfilling work environment for our employees.
- > Build a strong REOTEMP brand and reputation in the industrial markets where we compete.
- > Achieve planned, sustained growth in our target markets both in the US and internationally.



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