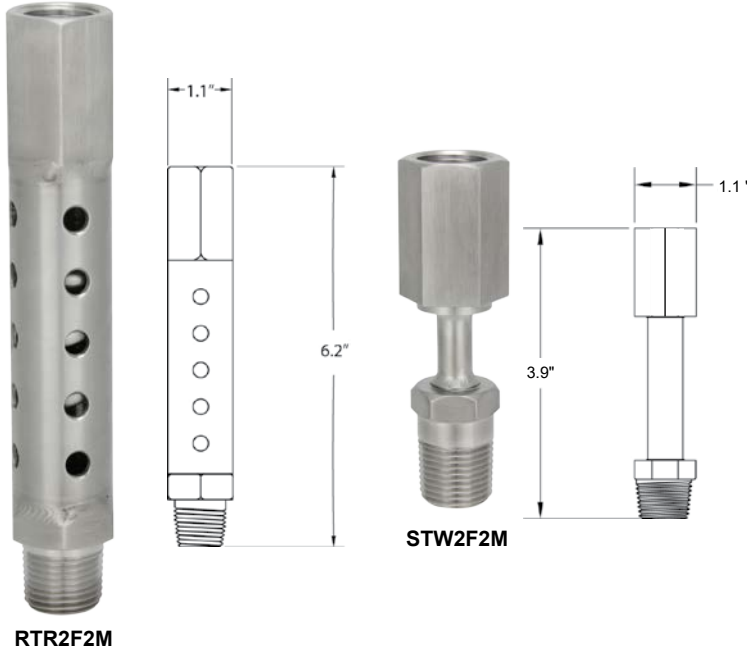


## COOLING TOWERS

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 700°F!



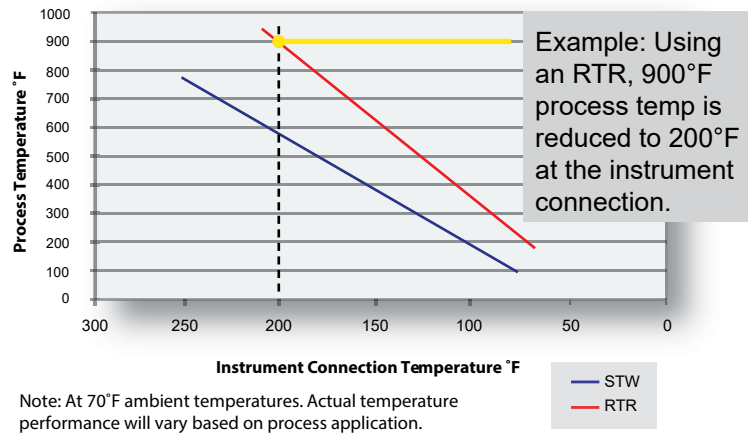
### SPECIFICATIONS

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

### Application Notes

- Cooling towers may be threaded directly into process media in applications where the fluid is viscous enough to flow through a 3mm ID tube without clogging. For ultimate performance, mount cooling tower above a diaphragm seal.
- If mounting between pressure instrument and diaphragm seal, use 3-digit mounting code in diaphragm seal part number (pg. 57)
- Pigtail siphons (pg. 107) 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**

MODEL	INSTRUMENT CONNECTION	PROCESS CONNECTION
RTR = Cooling Tower Standoff	4M = 1/4" Male NPT 4F = 1/4" Female NPT 2M = 1/2" Male NPT 2F = 1/2" Female NPT	4M = 1/4" Male NPT 2M = 1/2" Male NPT

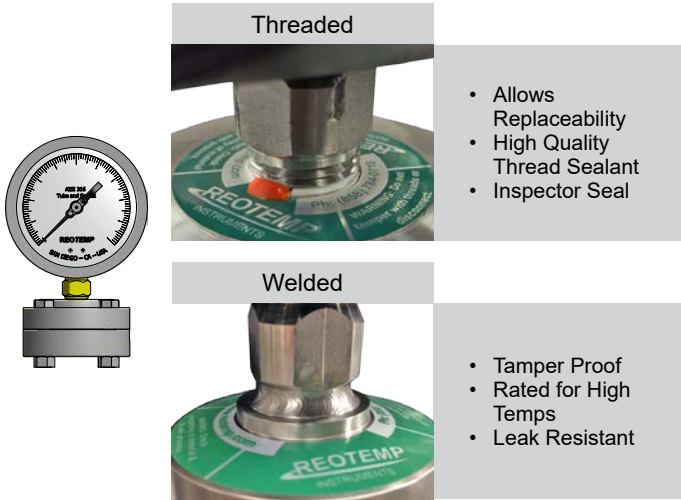
	Temperature °F	RTR psi	STW psi
Maximum	200	5000	5000
Working	500	3500	3500
Pressure	800	1000	1500

Maximum working temperature is 800°F.

## COMMON MOUNT 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

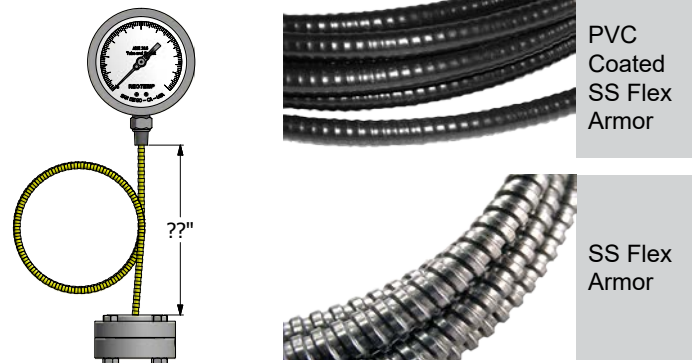
- Tamper Proof
- Rated for High Temps
- Leak Resistant

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.

### 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.



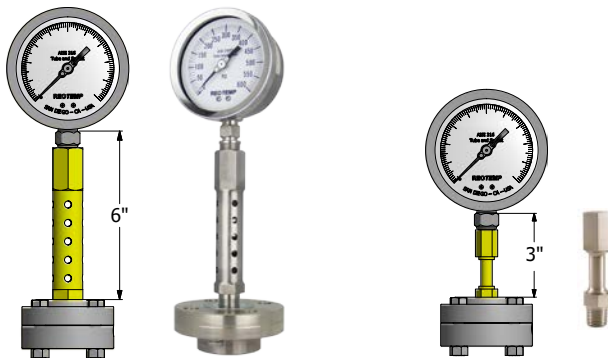
Code	Description	Max. Temp
-P??	PVC Coated SS Armor, Threaded to Seal	400°F
-W??	PVC Coated SS Armor, Welded to Seal	600°F
-A??	SS Flexible Armor, Threaded to Seal	400°F
-B??	SS Flexible Armor, Welded to Seal	750°F

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.

### 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.

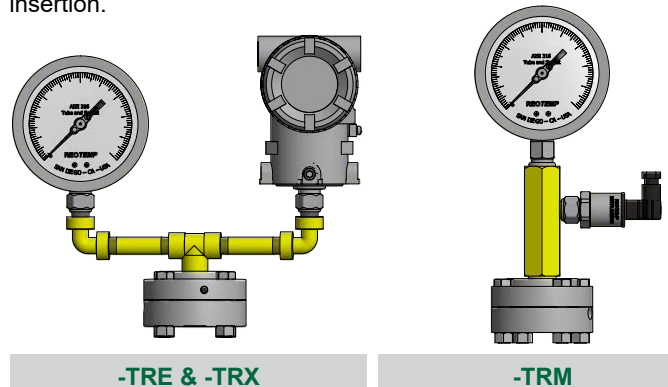


Code	Description	Max. Temp
-RTR	6" Cooling Tower	750°F
-STW	3" Cooling Standoff	600°F

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

### TREE ASSEMBLIES

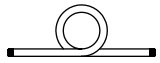
Tree Assemblies offer the ability to mount two pressure instruments onto one diaphragm seal, allowing the user to gain both a local indication and a remote signal without adding an additional pipe insertion.



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.

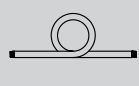


## SIPHONS



Style
180°
90°
270°
360°

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"	Steel	40	PXS21SS	PXS22SS	PXS24SS
		80	PXS21SX	PXS22SX	PXS24SX
		80	PXS51SX	PXS52SX	PXS54SX
1/2"	304SS	40	PXS214S	PXS224S	PXS244S
		80	PXS214X	PXS224X	PXS244X
		80	PXS514X	PXS524X	PXS544X
1/2"	316SS	40	PXS516S	PXS526S	PXS546S

**HOW TO ORDER:** Choose options to build a part number. For example: **PXS516S**

**PXS**

**5**

**1**

**6**

**S**

MODEL	NPT	STYLE	MATERIAL	PIPE SCHEDULE
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PXS = Pigtail Siphon

2 = 1/4"  
5 = 1/2"

1 = 180°  
2 = 90°  
3 = 270°  
4 = 360°

S = Carbon Steel  
4 = 304SS  
6 = 316SS  
1 = Chrome Moly P11  
2 = Chrome Moly P22

S = Schedule 40  
X = Schedule 80  
1 = Schedule 160 (1/2" ONLY)  
D = XX Heavy (1/2" ONLY)

*Other Materials Available*