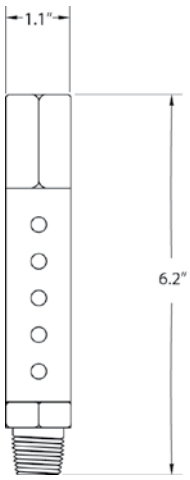
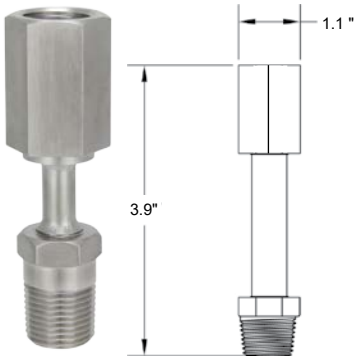
COOLING TOWERS

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!

RTR2F2M





STW2F2M

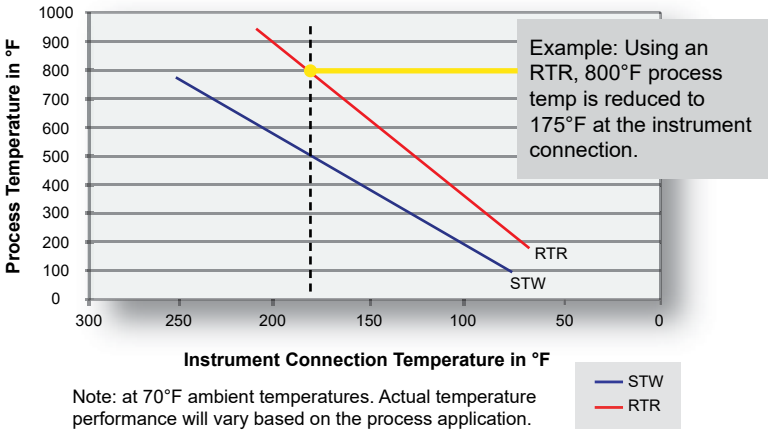
SPECIFICATIONS

- 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 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



Note: at 70°F ambient temperatures. Actual temperature performance will vary based on the process application.

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

STW	4M	4M
MODEL	**INSTRUMENT CONNECTION**	**PROCESS CONNECTION**
RTR = Cooling Tower **STW** = Cooling 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 Working Pressure	200	5000	5000
	500	3500	3500
	800	1000	1500

Maximum working temperature is 800°F.

ACCESSORIES

Diaphragm Seals

INSTRUMENT MOUNTING CONFIGURATIONS

DIRECT MOUNT

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

Threaded

- Allows Replaceability
- High Quality Thread Sealant
- Inspector Seal

Welded

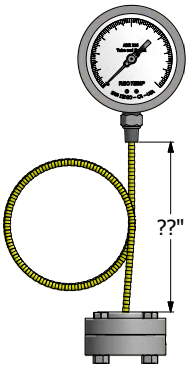
- Tamper Proof
- Rated for High Temps
- Leak Resistant

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.



PVC Coated SS Flex Armor

SS Flex Armor

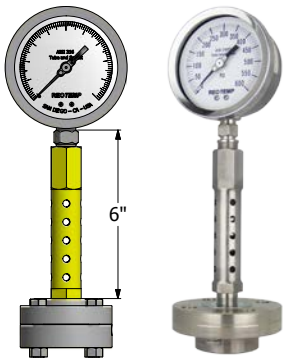
Code	Description	Max. Temp
-P??	PVC Coated SS Armor, Threaded to Seal	400°F
-W??	PVC Coated SS Armor, Welded to Seal	600°F
-A??	SS Flexible Armor, Threaded to Seal	400°F
-B??	SS Flexible Armor, Welded to Seal	750°F

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

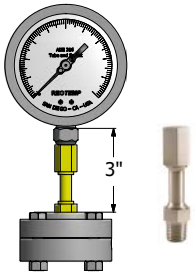
Assembly Notes: Capillary has a 2mm inner diameter unless specified differently by customer. Ambient temp limit of PVC coated armor is 250ºF. Standard instrument connection is threaded (Smart Transmitters are welded), unless specified by customer.

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.



-RTR



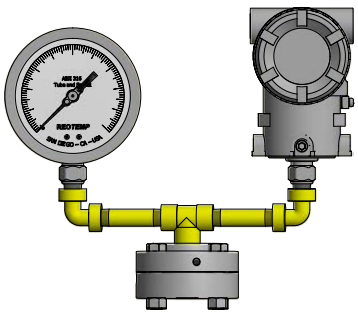
-STW

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

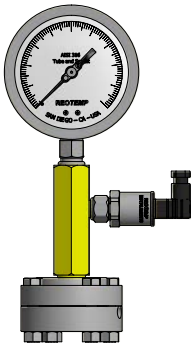
Assembly Notes: Cooling elements are welded to diaphragm seal. Instruments are threaded to cooling element unless specified. All lengths are nominal.

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.



-TRE & -TRX



-TRM

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.