

Tank Thermostat 91000XT Series

for Oil Field Heaters, Treators & Separators



Self-Operating Design

Heavy Duty Die Cast Aluminum Housing

3/4" and 1 NPT Valve Sizes

Soft Seated Valve for Tight Shut-Off

91000XT pictured

The 91000XT Tank Thermostat is especially designed to control the temperature of heaters, treators and separators within the petroleum industry. It is entirely self-contained, requires no external power source, and is the most widely preferred unit of its kind. When installed in a treator, the normally open valve will automatically close off the flow of gas as temperature increases, thereby regulating temperature within the treator. The Trerice 91000XT is ruggedly constructed with a heavy duty, die cast aluminum actuator housing. Its single seated, cast-iron valve body is fitted with a stainless steel plug assembly and soft seating Viton o-ring to provide tight shut-off.

Warning: This valve may only be installed in outdoor applications. The Teflon v-ring packing will allow fugitive emissions to escape. Improper application may cause failure of the valve, resulting in possible personal injury or property damage.

For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the sensing bulb and facilitate its removal from the process.

Temperature Regulators

Specifications

<p>Model 91000XT</p> <p>Power Requirements Fully self-contained – no external power required</p> <p>Housing Die cast aluminum, epoxy powder coated blue finish</p> <p>Set Point Scale Integral to housing</p>	<p>Bellows High pressure brass, corrosion resistant, tin plated finish</p> <p>Adjustment Screw Brass</p> <p>Adjustment Screw Bushing Lubricant impregnated sintered bronze</p> <p>Range Adjustment Spring Cadmium plated</p>	<p>Overrange Protection Upper range limit +100°F for temporary situations</p> <p>Thermal System Bulb: Copper, .80" x 8", with union connection for thermowell Capillary: Copper, available in 10' or 20' lengths</p> <p>Thermowell Steel, 1 NPT connection</p>	<p>Valve Single seat, normally open Body: Cast-iron Trim: Stainless steel plug assembly with soft seating Viton o-ring, iron seat Port Size: 1/2" Connection: 3/4 NPT or 1 NPT threaded ends</p> <p>Approximate Shipping Weight 10.3 lbs [4.68 kg]</p>
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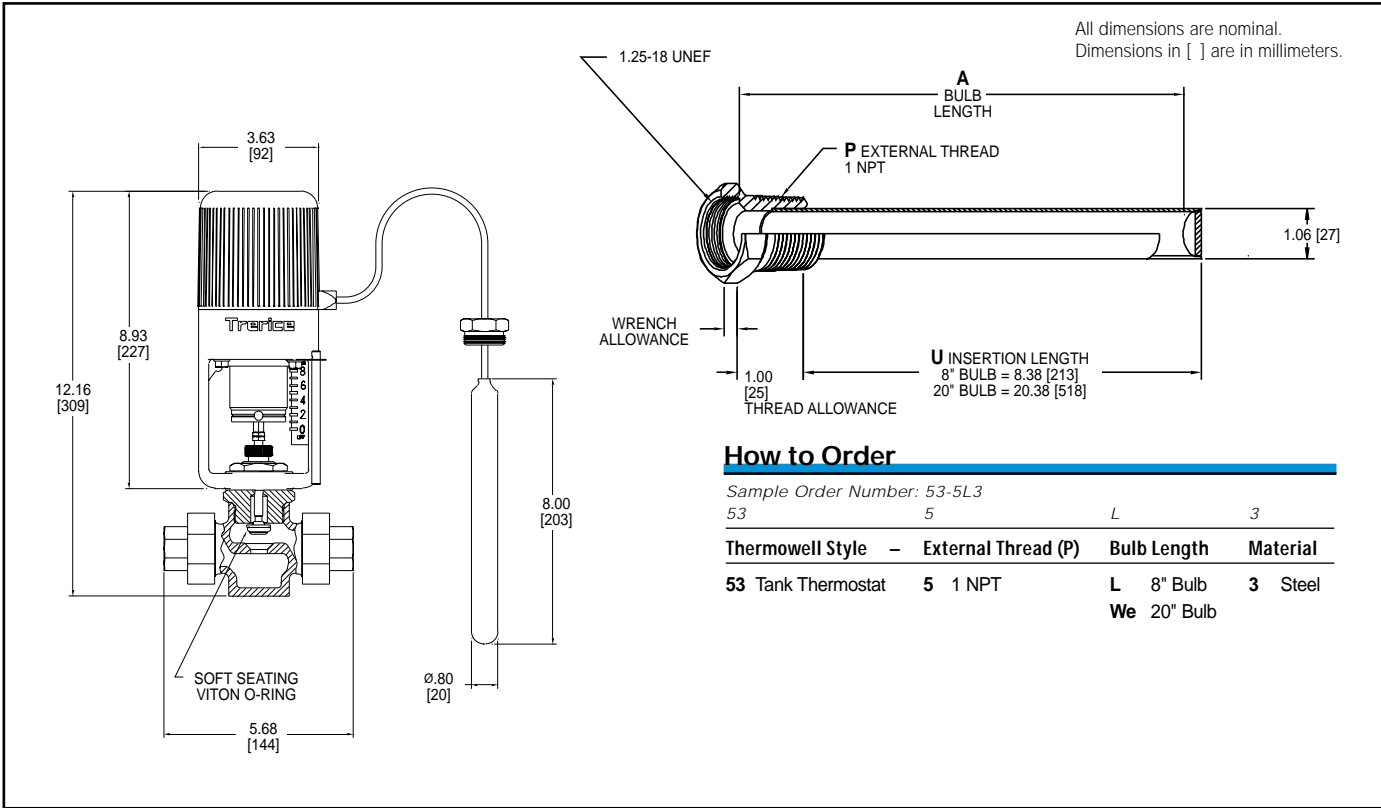
How to Order

Sample Order Number: 91000XTCX011002-X75
91000XT C X01 10 02 X75

Model	Level of Assembly	Range	Capillary Length	Thermowell	–	Valve Size
91000XT	A Actuator Only	See Standard	10 10 Feet	02 Steel Thermowell		X75 3/4 NPT
	C Complete Thermostat	Available Ranges (over)	20 20 Feet	Omit if None		X10 1 NPT Omit if Actuator Only

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Standard Available Ranges

Range Code	Nominal Range	Recommended Working Span	Bulb Length (A)
X13	85° to 115°F & 30° to 45°C	85° to 115°F & 30° to 45°C	8"
X11	80° to 140°F & 25° to 60°C	110° to 140°F & 45° to 60°C	8"
X04	110° to 140°F & 45° to 60°C	110° to 140°F & 45° to 60°C	8"
X15	130° to 160°F & 50° to 70°C	130° to 160°F & 50° to 70°C	8"
X01	110° to 190°F & 45° to 90°C	160° to 190°F & 70° to 90°C	8"
X03	125° to 215°F & 55° to 100°C	180° to 210°F & 80° to 100°C	8"
X12	200° to 280°F & 95° to 135°C	250° to 280°F & 120° to 140°C	8"
X10	225° to 315°F & 110° to 155°C	280° to 310°F & 135° to 155°C	8"
X16	310° to 365°F & 155° to 185°C	310° to 365°F & 155° to 185°C	8"
X14	295° to 420°F & 145° to 215°C	360° to 420°F & 180° to 215°C	8"
X08*	45° to 115°F & 10° to 45°C	85° to 115°F & 30° to 45°C	20"
X07*	65° to 140°F & 20° to 60°C	110° to 140°F & 45° to 60°C	20"

*Except for Range Codes X07 and X08, the actuator housing and capillary tubing must always be exposed to a temperature lower than the required control point for proper thermostat operation.

Valve Capacities

Gas (Specific Gravity = 0.6)

Inlet Pressure (psig)	5			10			20			30			40			50		
Outlet Pressure (psig)	4	2	0	8	5	0	15	10	5	25	20	10	30	20	15	40	30	25
Capacity (scfh)	970	1585	1935	1450	2140	2700	2685	3480	3870	3100	4120	5030	4650	6000	6200	5320	6870	7250