



Temperature Regulators

Temperature Regulators Types

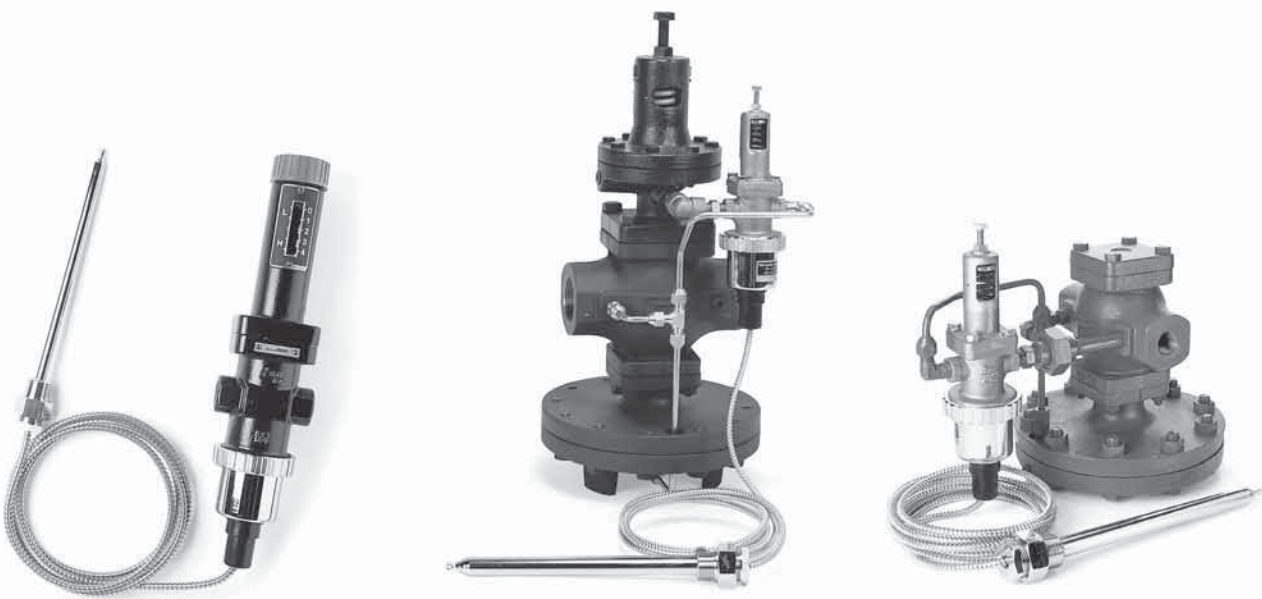
Armstrong self-actuated temperature regulators are compact, high performance units that are simple in design and operation and suitable for a wide variety of applications. Features including flexible mounting positions, interchangeable capillaries and several temperature ranges make installation, adjustment and maintenance quick and easy.

There are three types of temperature regulators in Armstrong product range:

Low capacity : our **OB-30/31** temperature regulators are suitable for variety of heating or cooling applications. They can be used for steam, water and non-corrosive liquids. Available with connections up to 1", they can handle up to 750 kg/h of steam or 16 m³/h of water.

High capacity : our **OB-2000** temperature regulators are high capacity valves for steam applications. Used for heating only, they are able to handle up to 30 000 kg/h of steam.

Pressure and Temperature Regulators : our **OB-2000PT** temperature regulators have both pressure and temperature pilots, giving them higher accuracy. Being able to control as well outlet steam pressure as the temperature of the heated fluid, they can handle up to 30 000 kg/h of steam.

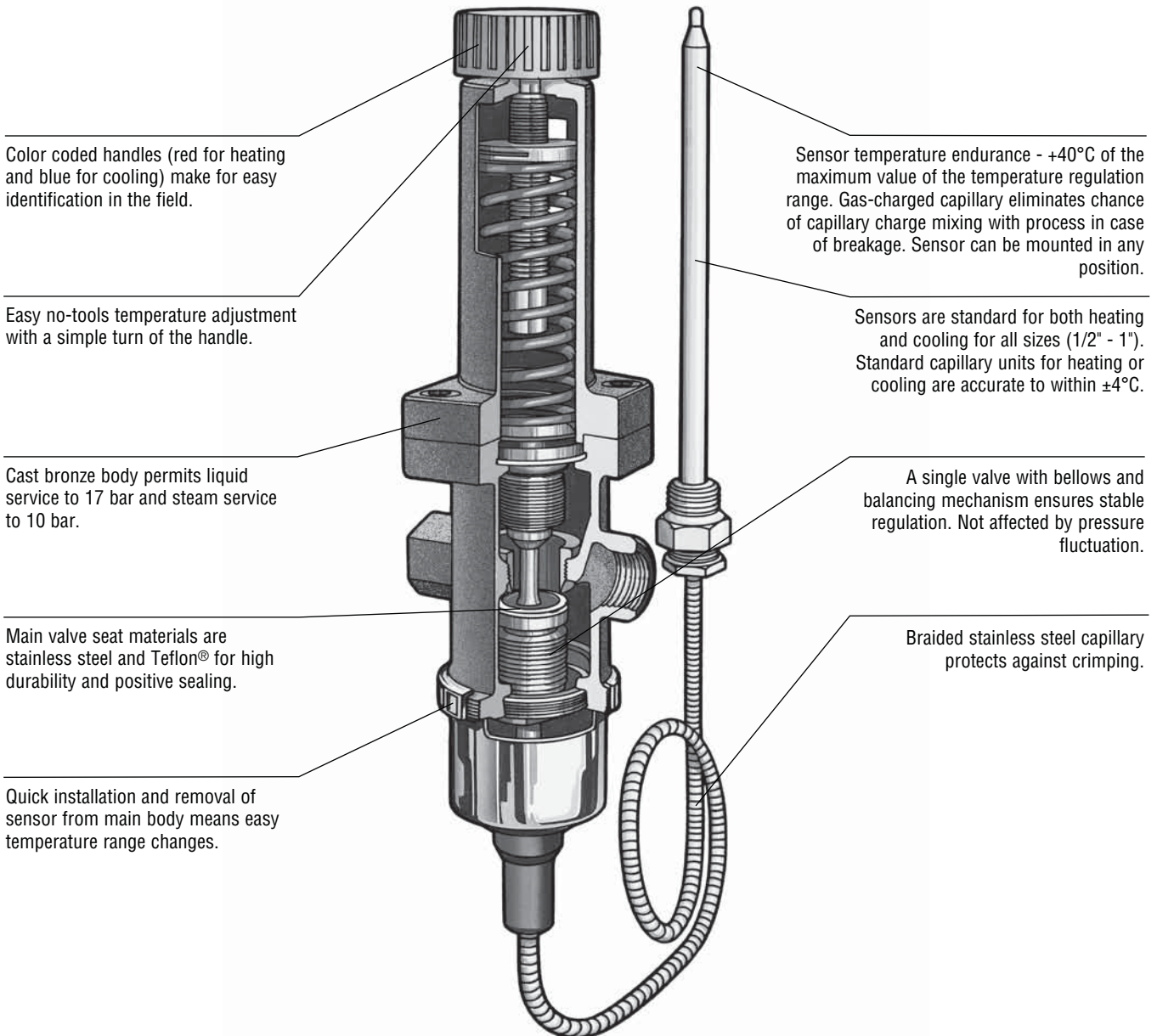


Temperature Regulators

For Steam, Water and Non-Corrosive Liquid Service

Armstrong self-actuated externally piloted temperature regulators are compact, high performance units that are simple in design and operation - and suitable for a wide variety of applications.

Features including flexible mounting positions of the sensor, interchangeable capillaries and varied temperature ranges make installation, adjustment and maintenance quick and easy.



Color coded handles (red for heating and blue for cooling) make for easy identification in the field.

Easy no-tools temperature adjustment with a simple turn of the handle.

Cast bronze body permits liquid service to 17 bar and steam service to 10 bar.

Main valve seat materials are stainless steel and Teflon® for high durability and positive sealing.

Quick installation and removal of sensor from main body means easy temperature range changes.

Sensor temperature endurance - +40°C of the maximum value of the temperature regulation range. Gas-charged capillary eliminates chance of capillary charge mixing with process in case of breakage. Sensor can be mounted in any position.

Sensors are standard for both heating and cooling for all sizes (1/2" - 1"). Standard capillary units for heating or cooling are accurate to within ±4°C.

A single valve with bellows and balancing mechanism ensures stable regulation. Not affected by pressure fluctuation.

Braided stainless steel capillary protects against crimping.

Pressure and Temperature Controls

Table PTC-271-1. Temperature Regulator Valve Selection							
If the Service is	If the Inlet Pressure is	Type of Control	Temperature Ratings (°C)	Temperature Accuracy (°C)	If Maximum Capacity is Less Than	Look for Model	Find on Page
Heating	1 - 10 barg	Self-Contained Direct Acting	0 - 150°C (5 ranges)	± 3°C	792 kg/h	OB-30	PTC-272
	0,5 - 20 barg	Self-Contained Pilot Operated	-8 - 183°C (6 ranges)	± 1°C	29 754 kg/h	OB-2000 OB-2000PT	PTC-274 PTC-276
Cooling	0,34 - 17 barg	Self-Contained Reverse Acting	0 - 150°C (5 ranges)	± 3°C	16 m³/h	OB-31	PTC-272