

Thermostatic valves

Thermostatic Valves



- Uses the principle of expanding and contracting of wax at changing flow temperatures

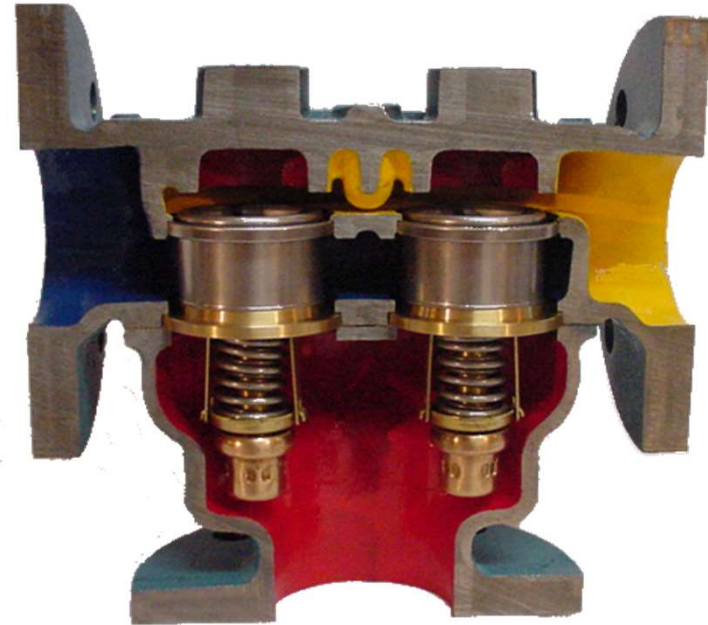
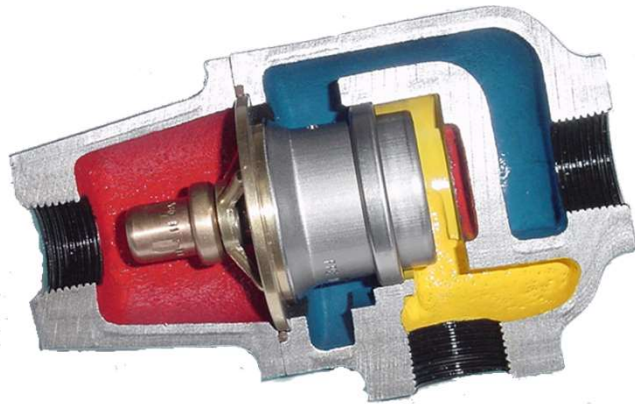
Thermostatic Valves

- Sizes – DN 15 – DN 150 (1/2" – 6")
- Materials
 - Cast Iron – Most common
 - Ductile Iron – Where brittleness may be an issue
 - Bronze – Sea water applications
 - Aluminium – Specialist uses
 - Steel – Specialist uses
 - Stainless Steel – Oil & Gas and Offshore
- Produced in
 - CE, ATEX and PED.
 - EN (DIN) & ANSI flanges & thread connections



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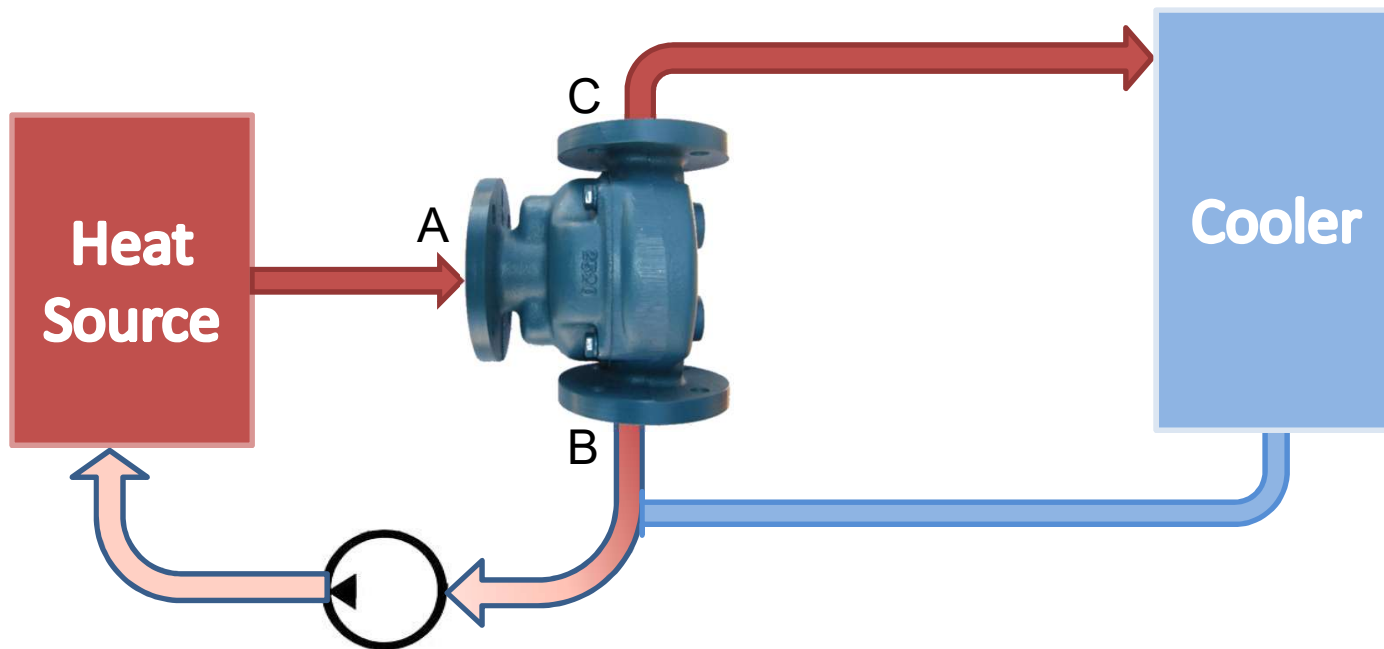
- How they work



- When the liquid reaches a predetermined temperature, the elements opens and divert the flow to a different port.
- Liquid flows from yellow to red and is diverted to blue once the predetermined temperature is reached.

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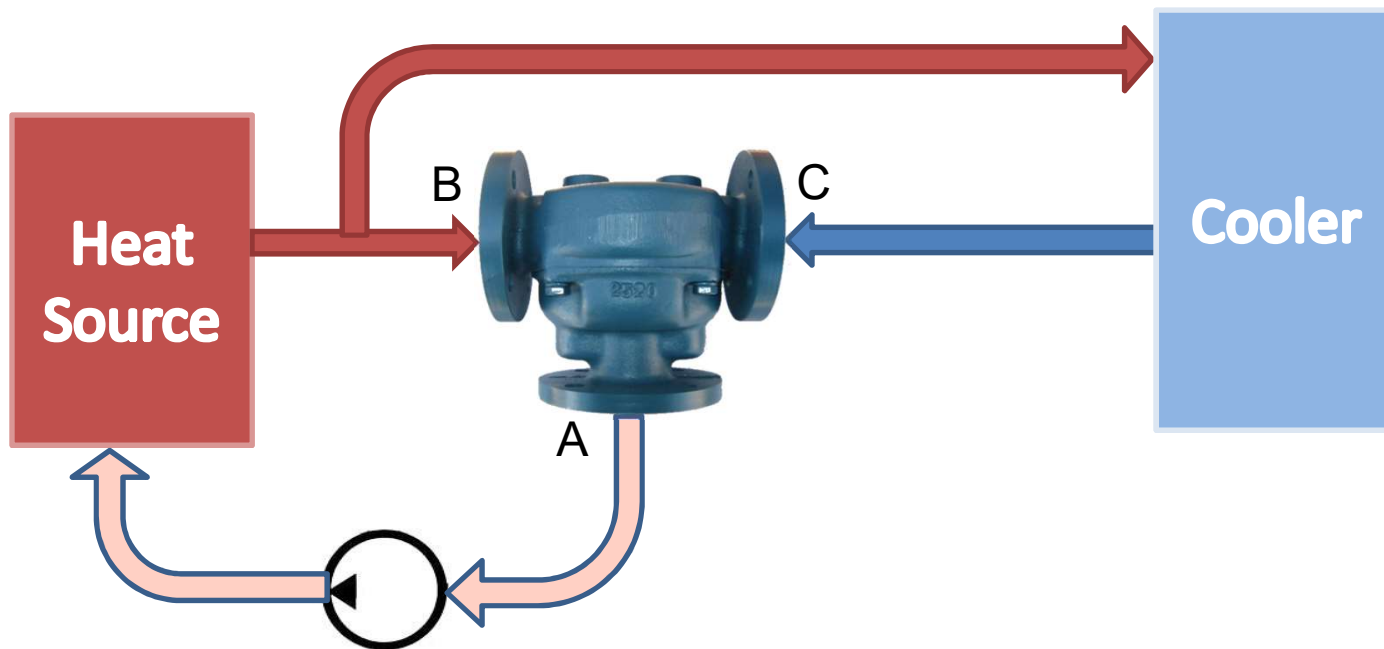
- Diverting System



- The liquid bypasses the cooler when cold so the system reaches the desired operating temperature quickly.

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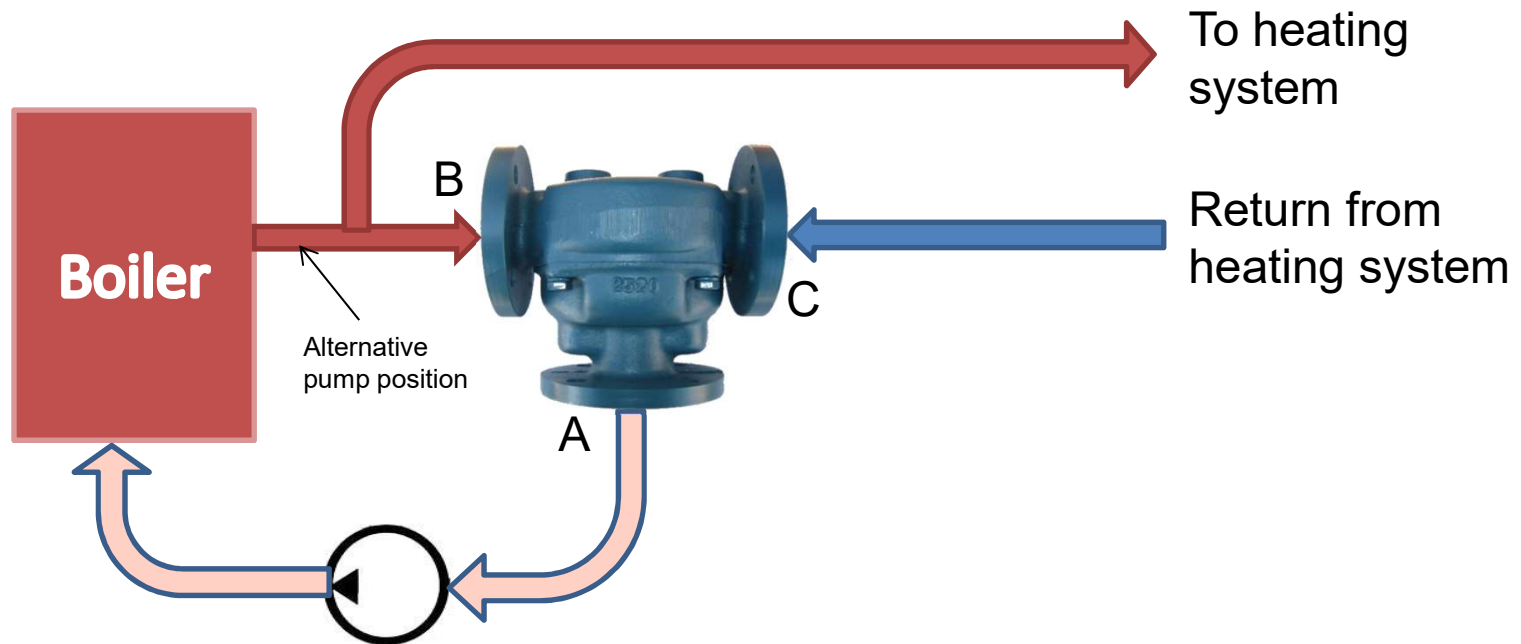
- Mixing System



- Hot water from the heat source and cold water from the cooler are mixed in the valve.

Thermostatic Valves

- Boiler Return



- Hot water from the boiler and return water from the heating system are mixed in the valve.



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Thank you for your attention

