

# Thermal Relief Valve

## KEY FEATURES

- Helps prevent over temperature of systems
- Stainless steel body, fittings, spring, and plug
- Discharges the minimum amount of water required to keep water temperature within pre-set limits
- Robust and corrosion resistant
- Compact, low-mass - fast response
- Opens when valve senses fluid temperature, not ambient temperature
- Ram-type plug for reliable and tight shut-off
- Unaffected by pressure variations
- Easy installation
- Installs in any orientation
- Self-actuating - no air or electricity required



## PRODUCT CODES

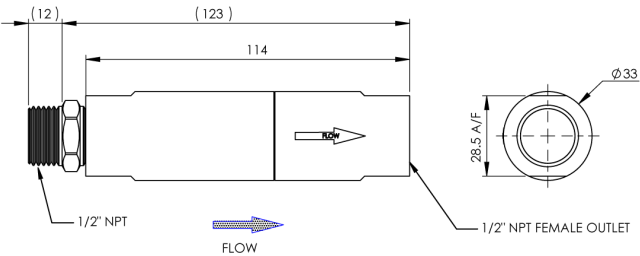
|                  |                                           |
|------------------|-------------------------------------------|
| EAATRV           | Thermal Relief Valve                      |
| EAATRV-RETROKIT  | TRV Retrofit Kit for Shower               |
| EAATRV-RETROKITX | TRV Retrofit Kit for Shower without Valve |
| EAATRV-FE        | TRV Retrofit Kit for Eye & Eye/Face Wash  |

Due to ongoing Research and Development, specifications may change without notice.  
Component specifications may change on some export models.  
Refer to warranty statement for warranty details - [www.enware.com.au/warranty](http://www.enware.com.au/warranty).

# Thermal Relief Valve

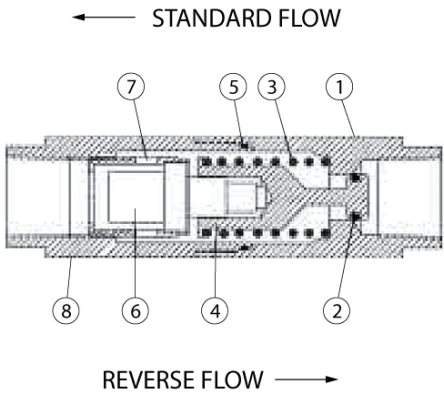
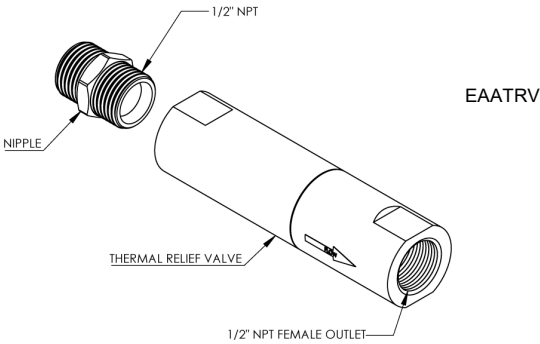
## TECHNICAL DATA

|                                                                                                                                                                                                                                                                                                                             |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Inlet / Outlet Connection                                                                                                                                                                                                                                                                                                   | 1/2" (NPTF) female with<br>1/2" (NPT) nipple |
| Size                                                                                                                                                                                                                                                                                                                        | 33 (D) x 114 (L) mm                          |
| Weight                                                                                                                                                                                                                                                                                                                      | 0.41kg                                       |
| Port Size                                                                                                                                                                                                                                                                                                                   | C                                            |
| Valve Flow Coefficient (C <sub>v</sub> )                                                                                                                                                                                                                                                                                    | 1.3                                          |
| Maximum Operating Pressure                                                                                                                                                                                                                                                                                                  | 1370 kPa                                     |
| Maximum Operating Pressure                                                                                                                                                                                                                                                                                                  | 121°C                                        |
| 1. Close/Open temperatures: 35-41°C, opens gradually at 35°C, fully open at 41°C and remains open until water temperature is 35°C or below. Closing temperature is typically 6°C below full open temperature.                                                                                                               |                                              |
| 2. Seal material compatibility: EPDM - air (to 148.8°C), water, steam, ketones, and synthetic hydraulic oils.                                                                                                                                                                                                               |                                              |
| 3. A #20 mesh strainer is recommended for use with all port sizes (not supplied).                                                                                                                                                                                                                                           |                                              |
| 4. With the valve installed in the standard flow direction, thermal actuator will respond to atmospheric temperature changes to initiate flow, then respond to water temperature once flow is established. With the valve installed in the reverse flow direction, thermal actuator will respond to water temperature only. |                                              |



## OPTIONAL ACCESSORIES

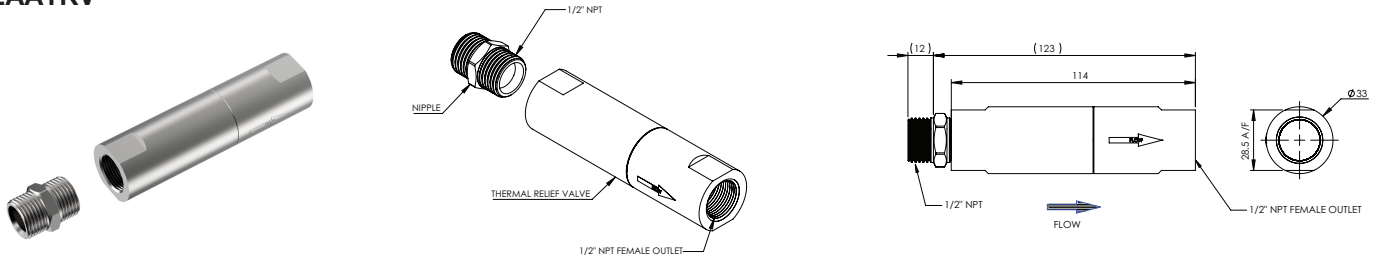
|        |                               |
|--------|-------------------------------|
| ESS100 | Thermal Reflective Insulation |
|--------|-------------------------------|



| ITEM | DESCRIPTION       | MATERIAL                                 |
|------|-------------------|------------------------------------------|
| 1    | Body - Inlet Half | Stainless steel 316L dual grade 316/316L |
| 2    | Seat Seal         | PTFE                                     |
| 3    | Operating Spring  | Stainless steel 302                      |
| 4    | Ram-Type Plug     | Stainless steel 303                      |
| 5    | Body Seal         | EPDM / Viton                             |
| 6    | Thermal Actuator  | Stainless steel 303                      |
| 7    | Actuator Carrier  | Stainless steel 303                      |
| 8    | Body-Outlet Half  | Stainless steel 316L dual grade 316/316L |

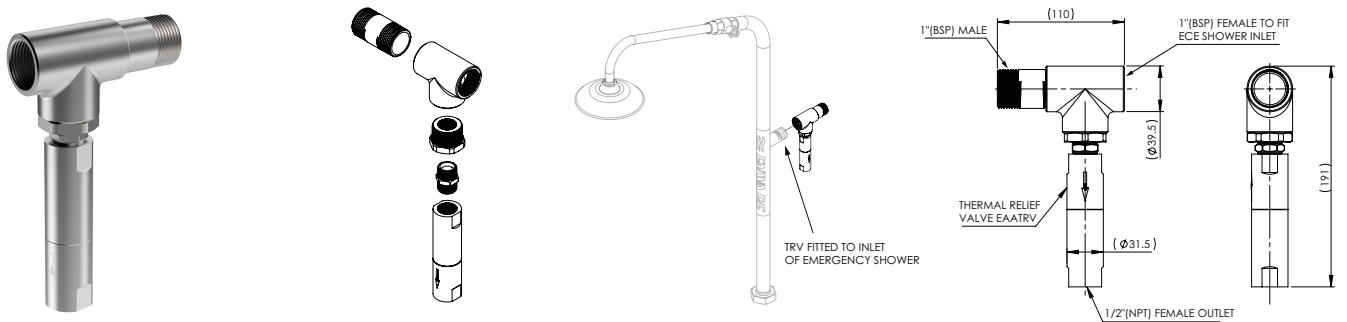
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## EAATRV



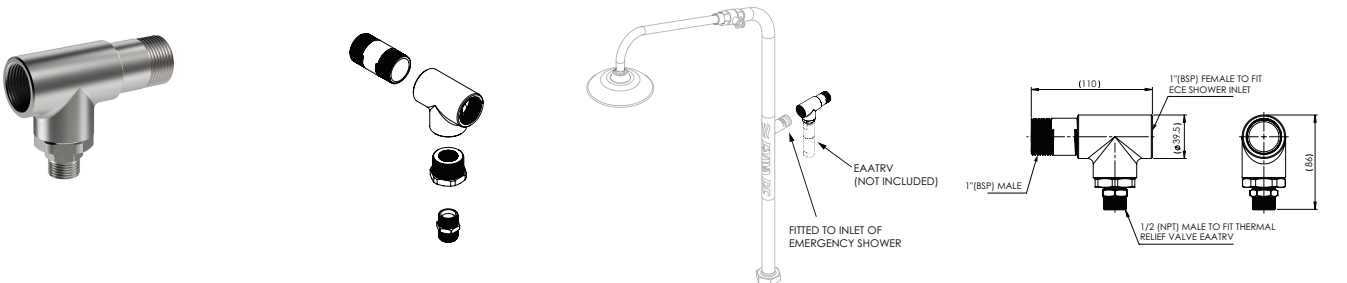
## EAATRV-RETROKIT

Thermal Relief Valve with Tee fitting suitable for installing onto the inlet of emergency shower. Thermal Relief Valve is supplied loose.



## EAATRV-RETROKITX

Tee fitting suitable for installing Thermal Relief Valve onto the inlet of emergency shower. Tee fitting only, valve not included.



## EAATRV-FE

Kit with 1/2" tee and nipples supplied loose with Thermal Relief valve. Suitable for fitting onto eye washes and eye/ face washes.

