



PRESSURE & TEMPERATURE RELIEF VALVE

PART NO: PTR850E

FEATURES

- Prevents damage to hot water systems by relieving excess pressure and temperature
- Cast DR brass body
- Stainless steel valve seat
- Easy to operate flushing mechanism
- An integral auxiliary relief and vacuum valve
- Non-serviceable and non-adjustable
- Dry spring construction
- Stainless steel spring
- Colour identification – PTR 850E (blue disc)
- Complies with AS1357.1
- StandardsMark Certification

SPECIFICATIONS

CONNECTIONS

| | |
|---------|---|
| Inlets: | 15mm (1/2" BSPT) Tapered Male Thread |
| Outlet: | 15mm (1/2" BSP) Parallel Female Thread |
| Length: | 36mm |
| Height: | 123mm |

PRESSURE

| | |
|-------------------------------------|--------------|
| Factory Set: | 850kPa |
| Auxiliary Relief Valve Pressure: | 500 – 935kPa |
| Rated Capacity: | 10kW |

TEMPERATURE

| | |
|---------------------------------|------|
| Maximum opening Temperature: | 99°C |
|---------------------------------|------|

STANDARDS

| | |
|---------------------------------|----------|
| Conforms to these standards: | AS1357.1 |
|---------------------------------|----------|

PRODUCT INFORMATION

OPERATION

- The PTR valve is designed to relieve excess pressure caused by water expanding during the heating cycle.
- It is NORMAL for the PTR valve to release drips of hot water during the heating cycle if no Expansion Control Valve is fitted.
- If the water heater thermostat fails to operate correctly, the PTR valve will discharge hot water when the temperature reaches 99°C.
- Fitting an Expansion Control Valve to a hot water system will prolong the life of the PTR valve and the water heater.
- It is recommended to flush the PTR valve every six months to clear deposits from around the valve seat.
- The date of manufacture can be found on the Indicator Disc. See warranty statement for further information.
- Never expose valves to a torch-flame or heat. Heat will destroy the seals and sealing parts.

INSTALLATION

- **NEFA valves should always be installed by a licensed plumber in accordance with National Plumbing and Drainage Code AS/NZ3500.4.**
- The installation must also comply with any Local Authority requirements and the water heater manufacturer's requirements.
- Don't install valve if temperature probe is damaged or bent.
- Ensure flushing handle is accessible.
- Check the inlet water pressure does not exceed the maximum stated in the table over.
- Ensure that sealing materials, e.g. thread tape or thread sealing paste, do not intrude into flow passages as this could cause obstruction to flow and failure of the valve.
- Install PLV and/or ECV, if required, as stated in the table over.
- Install drain line in accordance with AS/NZ3500.4

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NEFA, LEADING WATER VALVE TECHNOLOGY



PRESSURE & TEMPERATURE RELIEF VALVE

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| PTR Valve Rating | Without Expansion Control Valve | | With Expansion Control Valve | | |
|------------------|--|--------------------------------|--------------------------------|--|--------------------------------|
| | PLV required if mains pressure exceeds | Pressure Limiting Valve rating | Expansion Control Valve rating | PLV required if mains pressure exceeds | Pressure Limiting Valve rating |
| kPa | kPa | kPa | kPa | kPa | kPa |
| 850 | 680 | 500 | 700 | 550 | 350 |
| 1000 | 800 | 600 | 850 | 680 | 500 |
| 1400 | 1120 | 600 | 1200 | 960 | 600 |

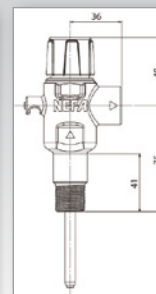
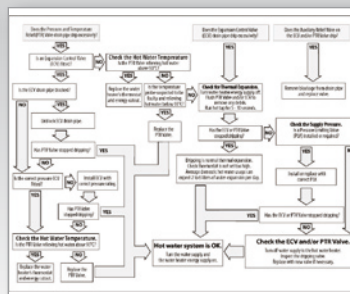
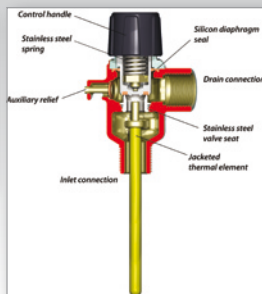
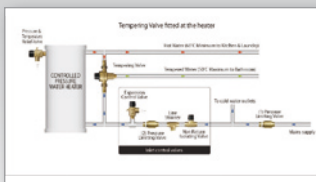
AS/NZ3500.4

REFER TO TECHNICAL DRAWINGS AND IMAGES FOR TYPICAL INSTALLATION DIAGRAMS.

SERVICING

This valve is not serviceable, but please note it should be flushed half yearly.

TECHNICAL DRAWINGS & IMAGES



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NEFA, LEADING WATER VALVE TECHNOLOGY

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