



EXPANSION CONTROL VALVE

PART NO: ECV850

FEATURES

- Prevents damage to hot water systems by relieving excess pressure.
- Cast DR brass body
- Stainless steel valve seat
- Easy to operate flushing mechanism
- An integral auxiliary relief and vacuum valve
- Non-serviceable and nonadjustable
- Dry spring construction
- Stainless steel spring
- Colour identification – ECV 850 (green 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:	100mm

PRESSURE

Factory Set:	850kPa
Auxiliary Relief Valve Pressure:	500 - 935kPa
Rated Capacity:	20kW

STANDARDS

Conforms to these standards:	AS1357.1
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PRODUCT INFORMATION

OPERATION

- The ECV is designed to relieve excess pressure caused by water expanding during the heating cycle.
- It is NORMAL for the ECV to release drips of water during the heating cycle.
- Fitting an ECV to a hot water system will prolong the life of the PTR valve and the water heater.
- It is recommended to flush the ECV every six months to clear deposits from around the valve seat.
- The ECV has been set in the factory and cannot be adjusted or serviced.
- The date of manufacture can be found on the Indicator Disc. See warranty statement for further information.

NEVER USE AN EXPANSION CONTROL VALVE AS A REPLACEMENT FOR A PRESSURE AND TEMPERATURE RELIEF VALVE

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.
- The ECV must be fitted vertically or horizontally to a tee on the cold water inlet line to the water heater.
- There must be no other valve between the ECV and the inlet connection to the water heater.
- Ensure the energy input to the heater does not exceed the rating of the ECV and that the set pressure on the valve indicator disc is correct for the installation.
- Ensure flushing handle is accessible.

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NEFA, LEADING WATER VALVE TECHNOLOGY



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PRODUCT INFORMATION

INSTALLATION

- Use sound trade practice in fitting the valve. Use the spanner flats provided. 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 drain line in accordance with AS/NZ 3500.4,
- Never expose valves to a torch flame or heat. Heat will destroy the seals and sealing parts.
- Check the inlet water pressure does not exceed the maximum stated in the table over.
- Install a PLV as required.

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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.

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NEFA, LEADING WATER VALVE TECHNOLOGY

CUSTOMER SERVICE HOTLINE: 1300 00 NEFA (6332)

CUSTOMER SERVICE FAX: 1300 00 6333

WEBSITE: nefa.com.au

EMAIL: info@nefa.com.au

