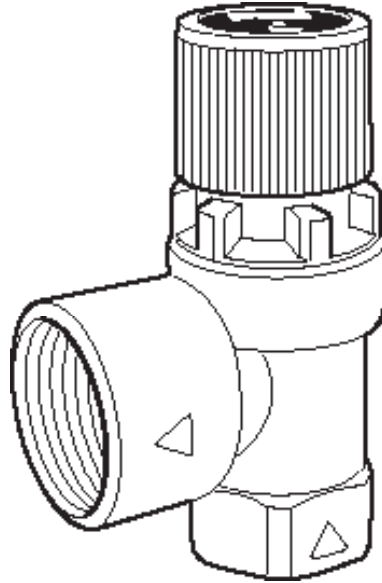




Product Specification Sheet

Pressure Relief Valves - PREL 100 Series



A high capacity pressure relief valve to protect closed-circuit water heating systems from overpressure.

Product Features and Benefits

- The outlet is one size larger than the inlet, for high capacity discharge.
- Gives overpressure protection for wet heating systems.
- Diaphragm design gives improved resistance to scaling.
- Cartridge design gives ease of service and replacement without the need to re-set the response pressure.
- Set pressure range from 2.5 bar to 5.0 bar to suit any system requirement.
- High lift design for increased discharge capacity.
- Available with a variety of BSP and compression connection combinations for complete installation flexibility.

✓ WRAS approved.

Pressure Relief Valves - PREL 100 Series

Description

Made from hot pressed brass, the Pressure Relief Valve is predominantly used to protect closed-circuit wet heating systems from overpressure. The outlet is one size larger than the inlet to ensure high discharge flow rates. It has a separate seal seating from the diaphragm with a cover which is made from OT58 brass. Available in a variety of sizes to suit most installations, it also has a pressure range from 2.5 bar to 5.0 bar with the response pressure indicated on the twist cap. The valve size is determined by the heat output of the boiler as shown in the maximum heating capacity table.

Product Range

PREL 100 008:	1/2" x 3/4" FF Relief Valve - 2.5 bar
PREL 100 001:	1/2" x 3/4" FF Relief Valve - 3.0 bar
PREL 100 003:	1/2" x 3/4" FF Relief Valve - 4.0 bar
PREL 100 004:	1/2" x 3/4" FF Relief Valve - 5.0 bar
PREL 100 013:	3/4" x 1" FF Relief Valve - 2.5 bar
PREL 100 014:	3/4" x 1" FF Relief Valve - 3.0 bar
PREL 100 016:	3/4" x 1" FF Relief Valve - 4.0 bar
PREL 100 028:	3/4" x 1" FF Relief Valve - 5.0 bar
PREL 100 022:	1" x 1.1/4" FF Relief Valve - 2.5 bar
PREL 100 023:	1" x 1.1/4" FF Relief Valve - 3.0 bar
PREL 100 025:	1" x 1.1/4" FF Relief Valve - 4.0 bar
PREL 100 027:	1" x 1.1/4" FF Relief Valve - 5.0 bar
PREL 100 032:	1.1/4" x 1.1/2" FF Relief Valve - 2.5 bar
PREL 100 033:	1.1/4" x 1.1/2" FF Relief Valve - 3.0 bar
PREL 100 034:	1.1/4" x 1.1/2" FF Relief Valve - 4.0 bar
PREL 100 036:	1.1/4" x 1.1/2" FF Relief Valve - 5.0 bar
PREL 100 044:	1.1/2" x 2" FF Relief Valve - 2.5 bar
PREL 100 041:	1.1/2" x 2" FF Relief Valve - 3.0 bar
PREL 100 042:	1.1/2" x 2" FF Relief Valve - 4.0 bar
PREL 100 046:	1.1/2" x 2" FF Relief Valve - 5.0 bar
PREL 100 052:	2" x 2.1/2" FF Relief Valve - 2.5 bar
PREL 100 049:	2" x 2.1/2" FF Relief Valve - 3.0 bar
PREL 100 050:	2" x 2.1/2" FF Relief Valve - 4.0 bar
PREL 100 055:	2" x 2.1/2" FF Relief Valve - 5.0 bar

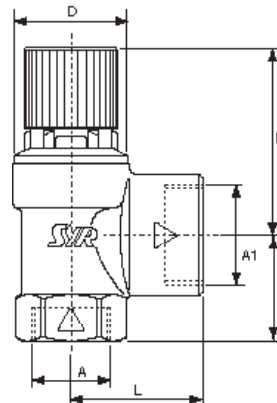
N.B.

Other pressure settings are available by contacting Reliance Sales Department

Materials

Body:	Hot pressed DZR brass
Diaphragm:	EPDM Elastomer
Seal:	EPDM Elastomer
Spring:	Spring steel wire - corrosion protected
Internals:	OT58 brass
Cap:	High grade glass fibre reinforced plastic

Dimensions



A	A1	L	D	H	h
1/2"	3/4"	35	31	52	28
3/4"	1"	38.5	49	54	34
1"	1.1/4"	47	49	79.5	40
1.1/4"	1.1/2"	52.5	51	110	46
1.1/2"	2"	70	75	186.5	55
2"	2.1/2"	75	75	195	66

All dimensions in mm unless stated

Maximum Heating Capacity

Table to show how valve size is determined by the heat output of the boiler.

Pressure Setting (bar)	Maximum Heating Capacity (kW)					
	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
1.5	36	72	144	252	433	650
2.0	43	86	172	302	518	778
2.5	50	100	200	350	600	900
3.0	56	112	224	395	678	1017
4.0	70	140	280	490	840	1260
5.0	84	168	336	588	1008	1512
Inlet Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"

Specifications

Set Pressure Range:	2.5 bar to 5.0 bar
Operating Temperature:	140°C max.
Test Pressure of Body:	25 bar

Approvals

WRAS Approval Number: 0007068

How to Specify

A high capacity (outlet one size larger than the inlet) heating system pressure relief valve, manufactured from hot pressed DZR brass. Twist top cartridge style construction and pressure indicated on cap (include correct product range code).

Guarantee

All Reliance products undergo strict performance tests prior to despatch, and are guaranteed against faulty materials and workmanship for one year from date of purchase. This is in addition to any statutory rights.



Reliance Water Controls®
Worcester Road, Evesham, Worcestershire, WR11 4RA, UK
Tel: +44 (0)1386 712400 Fax: +44 (0)1386 712401 www.rwc.co.uk

