



# 100 SERIES SEALED HEATING SYSTEM HIGH CAPACITY PRESSURE RELIEF VALVES

PREL100008	1/2" x 3/4" FxFBSP 2.5 bar
PREL100001	1/2" x 3/4" FxFBSP 3.0 bar
PREL100003	1/2" x 3/4" FxFBSP 4.0 bar
PREL100004	1/2" x 3/4" FxFBSP 5.0 bar
PREL100013	3/4" x 1" FxFBSP 2.5 bar
PREL100014	3/4" x 1" FxFBSP 3.0 bar
PREL100016	3/4" x 1" FxFBSP 4.0 bar
PREL100028	3/4" x 1" FxFBSP 5.0 bar
PREL100022	1" x 1 1/4" FxFBSP 2.5 bar
PREL100023	1" x 1 1/4" FxFBSP 3.0 bar
PREL100025	1" x 1 1/4" FxFBSP 4.0 bar
PREL100027	1" x 1 1/4" FxFBSP 5.0 bar
PREL100032	1 1/4" x 1 1/2" FxFBSP 2.5 bar
PREL100033	1 1/4" x 1 1/2" FxFBSP 3.0 bar
PREL100034	1 1/4" x 1 1/2" FxFBSP 4.0 bar
PREL100036	1 1/4" x 1 1/2" FxFBSP 5.0 bar
PREL100044	1 1/2" x 2" FxFBSP 2.5 bar
PREL100041	1 1/2" x 2" FxFBSP 3.0 bar
PREL100042	1 1/2" x 2" FxFBSP 4.0 bar
PREL100046	1 1/2" x 2" FxFBSP 5.0 bar
PREL100052	2" x 2 1/2" FxFBSP 2.5 bar
PREL100049	2" x 2 1/2" FxFBSP 3.0 bar
PREL100050	2" x 2 1/2" FxFBSP 4.0 bar
PREL100055	2" x 2 1/2" FxFBSP 5.0 bar

## OVERVIEW

A high capacity pressure relief valve to protect closed-circuit water heating systems from overpressure, made from hot pressed brass. 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 on page 2.



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## FEATURES AND BENEFITS

- The outlet is one size larger than the inlet, for high capacity discharge
- Provides protection against overpressurisation in wet heating systems
- Diaphragm design gives improved resistance against scale
- 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

## 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

## SPECIFICATIONS

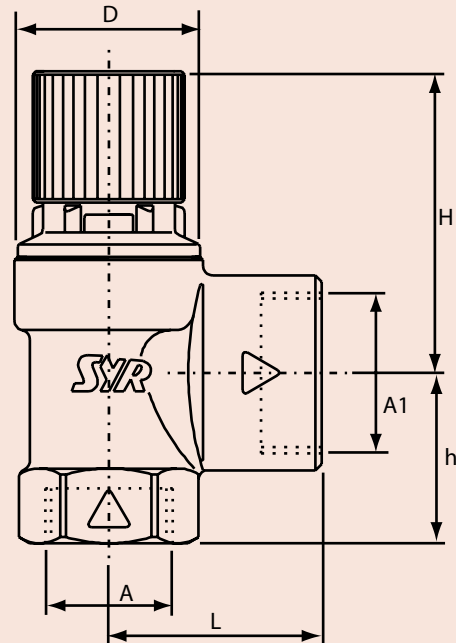
Set pressure range:	2.5 bar to 5.0 bar
Operating temperature:	140°C max
Test pressure of body:	25.0 bar

## 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).

## DIMENSIONS

All dimensions in mm unless otherwise stated.



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

## 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"
Inlet Size						
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