

716T Pressure and Temperature Safety Relief Valve



TECHNICAL SPECIFICATION

Approvals

ASME Section IV
PED certified to Article 3 Paragraph 3
(sound engineering practice), hence they do not carry the CE mark
Water Regulation Advisory Scheme (WRAS)
Also independently tested by the Building Research Establishment

Materials

Body - Bronze
Internals - DZR brass
Trim - Silicone

Size Range

Size	Min (Barg) Pressure	Max (Barg) Pressure
DN20 (3/4")	2.4	10.3
DN25 (1")	2.4	10.3
DN32 (1 1/4")	2.4	10.3
DN40 (1 1/2")	2.4	10.3
DN50 (2")	2.4	10.3

Connections

Screwed In x Screwed Out

Construction

Top Guided

Cap Options

Lever fitted as standard

Sizing

Refer to Capacity Charts opposite

- WRAS Approved
- Manual Test Lever
- Soft Seated Design
- Double Safety Protection
- Designed to EN1490/BS6283
- Large Discharge Capacities
- Independently Tested by BRE
- Smooth Temperature Probe
- Diaphragm Protection

DESIGN

The 716T is the ultimate solution to hot water system protection, it protects unvented hot water systems, against both excess pressure and excess temperature. Increasing pressure is sensed by the spring, which automatically opens the relief valve at the pre-set pressure and the integral probe independently monitors increases in temperature, safely opening the relief valve between 90°C and 95°C.

The 716T has capacities well in excess of EN1490:2000 code requirements, and has been independently tested by the Building Research Establishment, in accordance with EN1490:2000 which is to supersede BS6283 pt3.

The temperature probes are designed to have a smooth surface free from crevices, to reduce mineral build-up, and are white powder coated to minimise galvanic action within the heater.

The 716T has a bronze body, DZR brass internals and silicone seat in accordance with potable water code requirements. A soft seat provides leak tight operation. The spring and spring chamber are protected from the hot water by the EPDM diaphragm, reducing corrosion and increasing life in service.

The manual test lever can be easily operated from any position around the valve.

SIZING

Temperature Rating in kW

Size	3/4"	1"	1 1/4"	1 1/2"	2"
kW	44	70	80	173	184
kW (Per BSEN 1490)	25	50	75	100	-

To convert kW to Btu/hr multiply by 3400. The temperature probe will safely open the relief valve approximately in the region of 90 to 95°C.

Pressure Rating in kW

Set P	Size				
Barg	3/4"	1"	1 1/4"	1 1/2"	2"
2.4	166	186	315	524	631
2.5	171	192	324	540	650
3.0	196	220	371	619	745
4.0	246	277	466	777	935
5.0	296	323	560	935	1125
6.0	345	389	655	1093	1315
7.0	395	445	749	1251	1505
8.0	445	502	844	1409	1695
9.0	495	558	939	1567	1885
10.0	545	614	1033	1725	2075
10.3	560	631	1062	1773	2132

The kW rating shown has been calculated in accordance with BS6759 pt1 and ASME IV. They represent the steam relief capacity of the relief valve at 10% over pressure. To convert kW to Btu/hr multiply by 3400.

DIMENSIONS

Inlet & Outlet

	A	B	C	D	(kg)
BSP					
3/4" male x 3/4" female	38	62	262	113	0.60
1" male x 1" female	40	53	262	121	0.75
1 1/4" male x 1" female*	44	50	259	99	1.20
1 1/2" male x 1 1/2" female	63	68	271	80	2.00
2" male x 2" female	63	75	280	65	2.00

*1 1/4" valve has a 1" outlet

All dimensions in mm

