



BOSS™ 958 Pressure & Temperature Relief Valve

Data Sheet



General Description

A WRAS approved bronze combined pressure and temperature relief valve in sizes $\frac{3}{4}$ " to $2\frac{1}{2}$ " (DN20 to DN65).

All valves are supplied pre-set with a tamper proof seal.

Technical Specification

Sizes:	$\frac{3}{4}$ " to $2\frac{1}{2}$ " (DN20 to DN65)
Connections:	BSPT inlet male to BS EN 10226-2 BSPP outlet female to BS EN ISO 228-1
Pressure Range:	0.4 to 12.5 Barg.
Set Temperature:	95°C

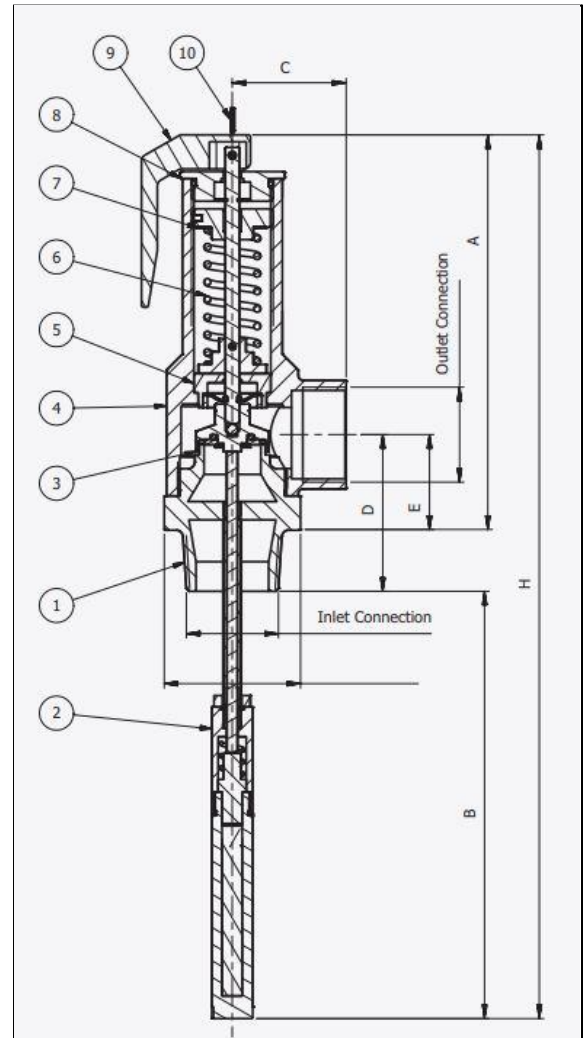
Standards/Approvals

WRAS Approved

Designed in Accordance with BS EN 1490 (Building valves. Combined temperature and pressure relief valves. Tests and requirements)

Materials of Construction

No.	Component	Material
1	Inlet	Brass CW602-N
2	Thermostat	Brass CW602-N
3	Seal Assembly	Brass CW602-N & PTFE
4	Body	Bronze CC491K
5	Piston Assembly	Brass CW602-N
6	Spring	Stainless Steel 1.4401
7	Adjuster	Brass CW602-N
8	Cap	Brass CW602-N
9	Wire & Lead Seal	Stainless Steel & Lead Seal
10	Lever	Bronze



Dimensions (mm unless otherwise stated)

Size	A	B	C	D	E	H	Weight (kg)
3/4"	129	144	37	62	32	302	1.1
1"	156	176	42	77	37	372	1.8
1 1/4"	182	184	50	77	50	393	2.4
1 1/2"	231	192	59	91	58	456	4.0
2"	258	191	59	119	59	509	5.6
2 1/2"	314	191	78	107	74	538	11.1

Please Note :

The above sizes are correct to inlet & outlet connections.

If using a BOSS 958 P&T Relief Valve to replace a valve from an alternative manufacturer please ensure the connections and discharge capacities are suitable - the DN sizes listed by some manufacturers do not match their connection sizes.

Product Codes (All pressures stated in bar)

	0.4 - 0.7	0.71 - 4.5	4.51 - 9.0	9.01 - 12.5		
¾"	27641805	27641816	27641827	27641838		
	0.4 - 0.9	0.91 - 1.4	1.41 - 5.7	5.71 - 8.5	8.51 - 12.5	
1"	27641849	27641860	27641871	27641882	27641893	
	0.4 - 0.9	0.91 - 4.0	4.01 - 8.3	8.31 - 12.5		
1¼"	27641923	27641934	27641945	27641956		
	0.4 - 1.2	1.21 - 4.0	4.01 - 8.0	8.01 - 12.5		
1½"	27641967	27641978	27641989	27642006		
	0.4 - 1.6	1.61 - 4.0	4.01 - 8.0	8.01 - 12.5		
2"	27642028	27642039	27642050	27642061		
	0.4 - 0.7	0.71 - 1.6	1.61 - 3.0	3.01 - 5.0	5.01 - 8.5	8.51 - 12.5
2½"	27642242	27642253	27642264	27642275	27642286	27642297

Discharge Capacities

The discharge capacity of the relief valve must be equal to or greater than the output of the boiler it is intended to protect.

Below are the discharge capacities for both the Temperature relief and the conventional pressure relief:

Temperature Relief Rate, Hot Water

Relief Pressure		¾" inlet		1" inlet		1¼" inlet		1½" inlet		2" inlet		2½" inlet	
bar g	Psi g	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec
Nominal Power Rating kW per BS EN 1490													
1	14.5	25	23.7	50	47.4	75	71.1	100	94.8				
Actual Power Rating kW per BS EN 4126-1 Annex NA													
1	14.5	49.2	46.6	87.4	82.8	136.5	129.4	223.7	212	349.5	331.3	546.2	517.7

Discharge / Relief Rate Capacities as per BS EN 1490 & 4126-1 Annex NA

Set Pressure	¾"		1"		1¼"		1½"		2"		2½"	
	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec	kW	Btu/sec
Bar g												
0.4	49.2	46.6	87.4	82.8	136.5	129.4	223.7	212.0	349.5	331.3	546.2	517.7
1.0	63.8	60.5	113.4	107.5	177.2	168.0	290.4	275.2	453.7	430.1	708.9	672.0
1.5	76.0	72.0	135.1	128.1	211.2	200.1	346.0	327.9	540.5	512.3	844.6	800.5
2.0	88.2	83.6	156.8	148.7	245.1	232.3	401.5	380.6	627.4	594.6	980.3	929.1
2.5	100.4	95.2	178.5	169.2	279.0	264.4	457.1	433.2	714.2	676.9	1115.9	1057.7
3.0	112.6	106.8	200.3	189.8	312.9	296.6	512.6	485.9	801.0	759.2	1251.6	1186.3
3.5	127.3	120.7	226.3	214.5	353.6	335.1	579.3	549.1	905.2	858.0	1414.4	1340.6
4.0	141.9	134.5	252.3	239.2	394.3	373.7	646.0	612.3	1009.4	956.7	1577.2	1494.9
4.5	156.6	148.4	278.4	263.9	435.0	412.3	712.7	675.5	1113.6	1055.5	1739.9	1649.2
5.0	171.2	162.3	304.4	288.6	475.7	450.9	779.4	738.7	1217.8	1154.2	1902.7	1803.4
6.0	200.5	190.1	356.5	337.9	557.1	528.0	912.7	865.1	1426.1	1351.7	2228.3	2112.0
7.0	229.9	217.9	408.6	387.3	638.5	605.2	1046.1	991.5	1634.5	1549.2	2553.9	2420.6
8.0	259.2	245.6	460.7	436.7	719.9	682.3	1179.4	1117.9	1842.9	1746.7	2879.5	2729.2
9.0	288.5	273.4	512.8	486.0	801.3	759.5	1312.8	1244.3	2051.2	1944.2	3205.1	3037.8
10.0	317.8	301.2	564.9	535.4	882.7	836.6	1446.1	1370.7	2259.6	2141.7	3530.6	3346.4
11.0	347.1	328.9	617.0	584.8	964.1	913.7	1579.5	1497.1	2468.0	2339.2	3856.2	3655.0
12.0	376.4	356.7	669.1	634.2	1045.4	990.9	1712.9	1623.5	2676.3	2536.7	4181.8	3963.6
12.5	391.0	370.6	695.1	658.9	1086.1	1029.5	1779.5	1686.7	2780.5	2635.4	4344.6	4117.9