



## **Unvented Kit of Components Literature (Boosted or Direct on Mains (DOM))**

### **STOKVIS ENERGY SYSTEMS**

**Unit 34 Central Park Estate**

**34 Central Avenue**

**West Molesey, Surrey**

**KT8 2QZ**

**Tel: 020 8783 3050**

**Fax: 020 8783 3051**

**E-Mail: [info@stokvisboilers.com](mailto:info@stokvisboilers.com)**

**Website: [www.stokvisboilers.com](http://www.stokvisboilers.com)**

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## **General:**

An unvented kit of components, required by Part G3 of the Building Regulations 2000 amended in 2010 and complying with any Installation Requirements for Bylaw Compliance, can be provided when the cold feed is boosted or mains fed.

Please refer to individual data sheets for product technical specification including maximum operating pressures and temperatures.

The information contained within this document has been collated from various sources and to the best of our knowledge was correct at the time of print.

# 315i COMMERCIAL PRESSURE REDUCING VALVE

PRED315030	1" MBSP union
PRED315040	1 1/4" MBSP union
PRED315050	1 1/2" MBSP union
PRED315060	2" MBSP union



## Overview

A range of commercial pressure reducing valves, incorporating a unique indicator so the set pressure can be identified easily without the need for a pressure gauge.

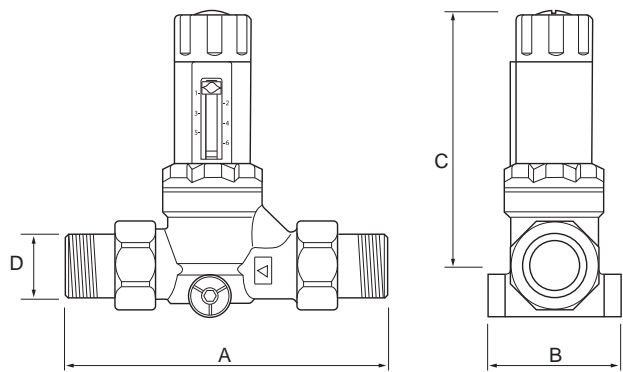


315i COMMERCIAL PRESSURE REDUCING VALVE

Features and Benefits

- Easy to read pressure indicator.
  - Robust design.
  - ‘Drop tight’ valve: controls the pressure under both flow and no-flow conditions.
  - One-piece, easy to replace cartridge contains all working parts.
- Fully serviceable integral strainer.
  - Suitable for hot and cold supplies.
  - Union fitting for ease of servicing.
  - Can be installed in any orientation.

Dimensions



	PRED315030	PRED315040	PRED315050	PRED315060
A (mm)	170	191	220	255
B (mm)	84	94	94	94
C (mm)	132	194	194	187
D (mm)	1" MBSP	1 1/4" MBSP	1 1/2" MBSP	2" MBSP

Specifications

Maximum Working Pressure	25 Bar
Adjustable Set Pressure	1.0-6.0 Bar
Pressure Reduction Ratio	10:1
Maximum Working Temperatures	70°C

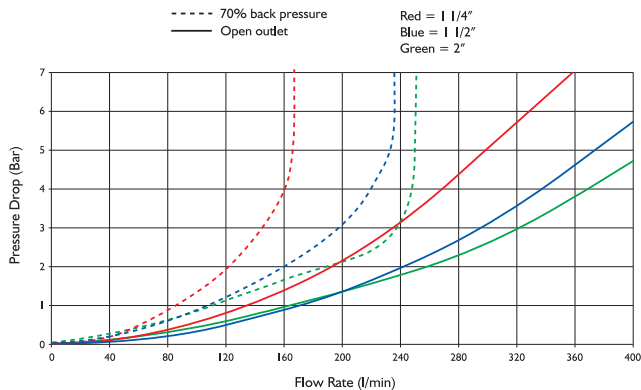
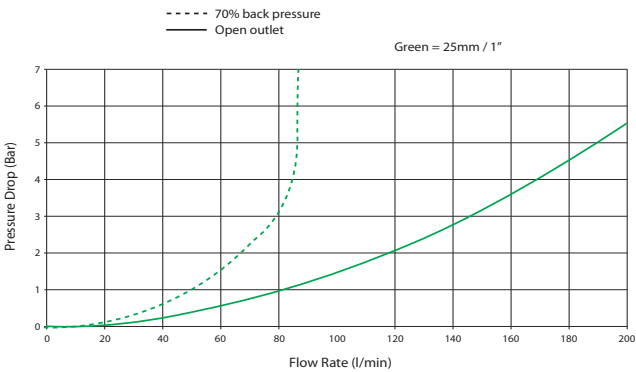
Standards and Approvals

BSEN 1567  
WRAS Approved

Materials

Body	DZR Brass
Internal Components	DZR Brass
Seals	EPDM
Spring	Zinc Plated Spring Steel
Strainer	Stainless Steel
Diaphragm	EPDM
Cover	ABS

Flow Rates



# 6247 COMMERCIAL/INDUSTRIAL PRESSURE REDUCING VALVE

PRED624001	DN65
PRED624002	DN80
PRED624003	DN100



## Overview

A high flow rate pressure reducing valve, which provides accurate pressure control for commercial or industrial applications. Manufactured in corrosion resistant bronze, the robust design can be installed in any orientation with a maximum working temperature of 60°C.



6247 COMMERCIAL/INDUSTRIAL PRV

Features and Benefits

- Manufactured in corrosion resistant bronze.
- Accurate pressure control, adjustable between 1.5-6.0bar.
- Robust design.
- All working components contained in a single cartridge.
- Upstream and downstream test points.
- Mini ball isolating test point.
- Can be installed in any orientation.

Specifications

Maximum Working Pressure	16 bar
Adjustable Set Pressure	1.5-6.0 bar
Maximum Working Temperatures	60°C
Strainer	0.25mm
Flange	PN16

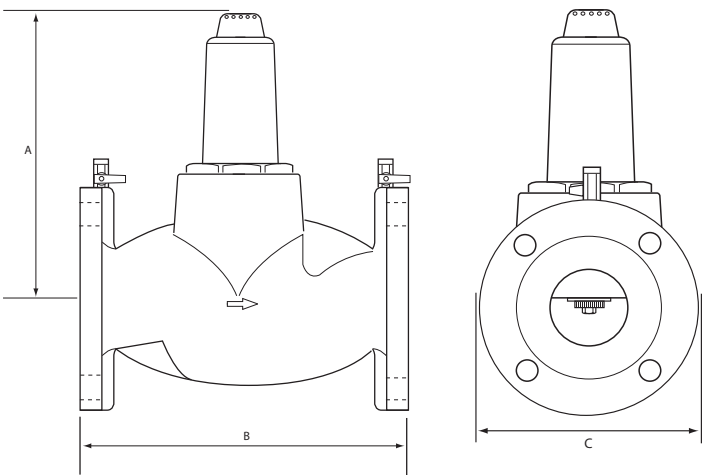
Materials

Body	Bronze
Seals	EPDM
Spring	Stainless Steel
Strainer	Stainless Steel
Diaphragm	EPDM
Cover	ABS Plastic

Standards and Approvals

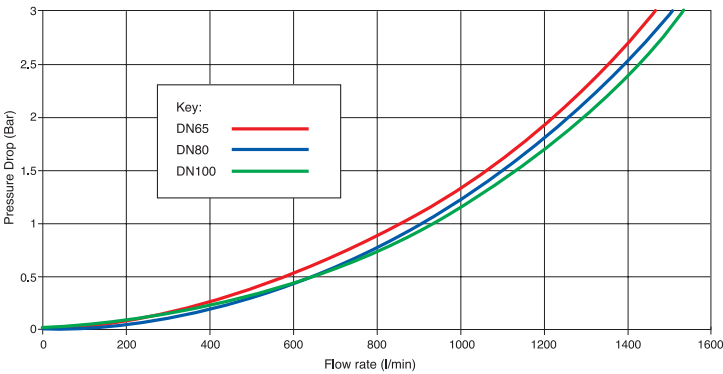
BSEN 1567  
WRAS Approved

Dimensions



PART CODE	A (mm)	B (mm)	C (mm)
PRED624001	283	290	185
PRED624002	283	310	200
PRED624003	283	350	220

Flow Rates



# DF 9GGI F 9; 5I ; 9

GAGE250001      1/4" MBSP back inlet, 50mm dial, up to 6 bar



## Overview

Selection of gauges to suit various applications and pressure ranges.

PRESSURE GAUGE

Features and Benefits

- Wide selection to suit all applications.
- High pressure indicator shows the highest pressure the gauge registers.
- Both PSI and BAR registered.

Specifications

Pressure Range		0/1.6 bar to 0/16 bar
Operating Temperature	Ambient	-20°C to +60°C
	Medium	+60°C max
Accuracy		+/- 2.5% FSD

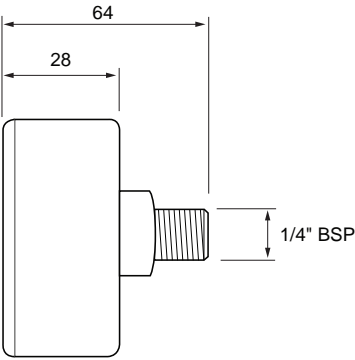
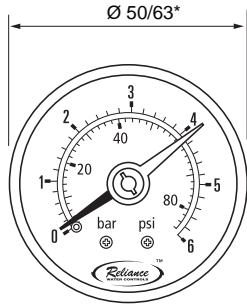
Materials

Case	ABS Plastic, black
Window	Acrylic, crystal clear
Pressure Element	CU Alloy
Joints	Soldered with Tin Alloy
Movement	High Precision Brass
Dial	Aluminium, white

Standards and Approvals

IP 40 as per EN 60529

Dimensions



\*depending on model  
Back inlet  
All dimensions shown in mm unless otherwise stated



: @C; I 5F 8<sup>α</sup> ·8CI 6@9·7 <97? ·J 5@J 9G

FLOW230007	1" FBSP Double check valve, DZR brass
FLOW230008	1¼" FBSP Double check valve, DZR brass
FLOW230009	1½" FBSP Double check valve, DZR brass
FLOW230010	2" FBSP Double check valve, DZR brass



## Overview

The Floguard range of double check valves are used for the prevention of backflow and back-siphonage contamination risks in accordance with the Water Supply (water fittings) Regulations 1999. Manufactured from DZR brass the WRAS approved Floguard range is supplied unplated with the exception of the Mini, which can be supplied nickel plated.



# FLOGUARD® DOUBLE CHECK VALVES

## Features and Benefits

- Double check valves protect against the risk of backflow and back-siphonage contaminations.
- Compact lightweight construction for easy installation.
- Allows high flow rate with minimum pressure drop, giving good flow rates.
- Ideal for all Class 3 contamination risks as per Water Supply (water fittings) Regulations 1999.
- Available with a comprehensive selection of FBSP and compression type connections.
- Integral test point for monitoring correct functioning of the downstream check valve.

## Materials

Body	DZR Brass
Seals	EPDM
Check Cartridges	Acetyl Copolymer
Spring	Stainless Steel

## Specifications

Working pressures	0.1 bar min. 16 bar max.
Maximum temperature	85°C

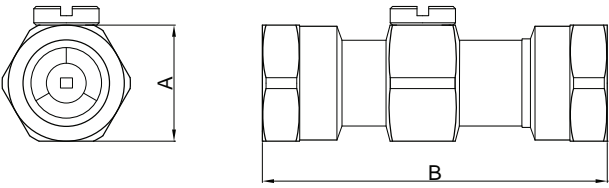
## How to Specify

Double Check Valve supplied in DZR Brass with FBSP or compression type connections, to protect against backflow and back-siphonage Class 3 contamination risks. (Include correct product range code)

## Standards and Approvals

BSEN 13959  
WRAS Approved

## Dimensions



Product Code	Connection	A	B
FLOW230007	1" FBSP	38	101
FLOW230008	1 1/4" FBSP	46	121
FLOW230009	1 1/2" FBSP	52	143
FLOW230010	2" FBSP	65	184

All dimensions in mm unless otherwise stated.

# AQUASYSTEM®

## REPLACEABLE MEMBRANE POTABLE WATER EXPANSION VESSELS

XVES050060	24Ltr
XVES050090	60Ltr
XVES050100	80Ltr
XVES050110	100Ltr
XVES050130	200Ltr
XVES050140	300Ltr
XVES050150	500Ltr
XVES050160	750Ltr
XVES050170	1000Ltr
XVES050180	1500Ltr
XVES050190	2000Ltr
XVES050200	3000Ltr
XVES050210	4000Ltr
XVES050220	5000Ltr



### Overview

Range of expansion vessels from 2 to 5000 litre for potable water. Replaceable membrane allows the vessel to be serviced in situ.



# AQUASYSTEM® REPLACEABLE MEMBRANE POTABLE WATER EXPANSION VESSELS

## Features and Benefits

- Stainless steel bolted flange prevents corrosion
- Extra wide membrane opening prevents noise caused by restricted flow
- Internal membrane prevents any water contact with the steel shell, stopping internal corrosion
- Huge choice of products from 24 litre to 5000 litre to cover all applications
- All versions supplied with a replaceable membrane meaning the vessel can be serviced without being removed
- Complete with pre-charge valve for topping up air pressure

## Approvals & Standards

WRAS Approved up to 1000 Litres

CE marked according to Directive PED 97/23/CE

TUV Certified

1000-5000 Litre models materials comply with BS 6920

## Specifications

Maximum temperature

99°C

Minimum temperature

-10°C

Maximum working pressure

10bar

## Materials

Shell

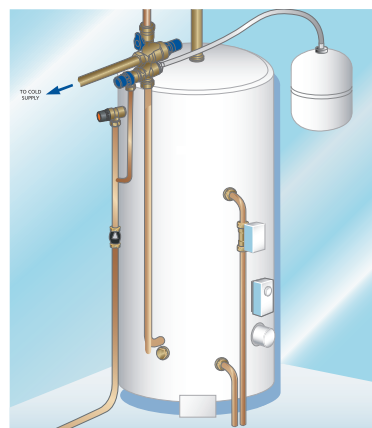
Epoxy coated steel

Membrane

EPDM

Bolted Flange

Stainless Steel



Typical installation for a Potable Vessel

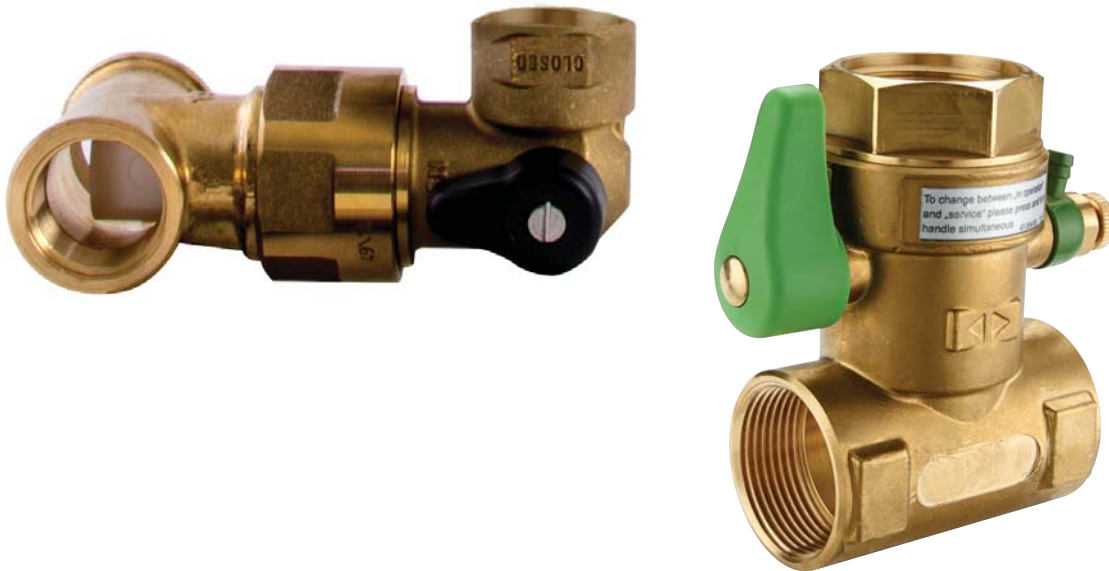
## Dimensions

Product Code	Capacity (Ltr)	Pre-set Pressure (Bar)	Water Connection	H-Height (mm)	DØ-Diameter (mm)	Colour	Line Drawing
XVES050060	24	3.0	¾" MBSP	492	280	White	
XVES050090	60	3.5	1" MBSP	783	365	Blue	
XVES050100	80	3.5	1" MBSP	790	410	Blue	
XVES050110	100	3.5	1" MBSP	774	495	Blue	
XVES050130	200	3.5	1¼" MBSP	1020	600	Blue	
XVES050140	300	3.5	1¼" MBSP	1243	650	Blue	
XVES050150	500	3.5	1¼" MBSP	1493	750	Blue	
XVES050160	750	4.0	2" MBSP	1820	800	Red	
XVES050170	1000	4.0	2" MBSP	2250	800	Red	
XVES050180	1500	4.0	2" MBSP	2400	960	Red	
XVES050190	2000	4.0	2" MBSP	2500	1100	Red	
XVES050200	3000	4.0	DN65	2750	1200	Red	
XVES050210	4000	4.0	DN80	3220	1450	Red	
XVES050220	5000	4.0	DN80	3620	1450	Red	

24 Ltr can be installed in any orientation    60 - 5000 Ltr are all bottom entry only

# ANTI-LEGIONELLA VALVE

ANTI100001    3/4" FBSP  
ANTI100005    1 1/4" FBSP



## Overview

The Anti-legionella valve converts a standard single connection expansion vessel into a 'flow through' type. It does this by diverting a portion of the flow into the vessel so that the water content is continually renewed.

The 3/4" valve has a rotatable tee-piece to allow flexibility upon installation.



## ANTI-LEGIONELLA VALVE

### Features and Benefits

- Maintains circulation through an expansion vessel
- Prevents stagnation
- Easy to install
- Includes ball valve for simple maintenance
- Rotatable tee-piece - 3/4" version
- Can be used on any standard vessel with 3/4" or 1 1/4" connection (max wall mounting size 24L)
- 1/4" Drain plug

### Specifications

Minimum working pressure	0.1bar
Maximum working pressure	10bar
Minimum temperature	6°C
Maximum temperature	70°C

### Materials

Tee piece  
Body  
Ball valve  
Internal O rings

DZR Brass  
DZR Brass  
Hostaform  
EPDM

### Approvals

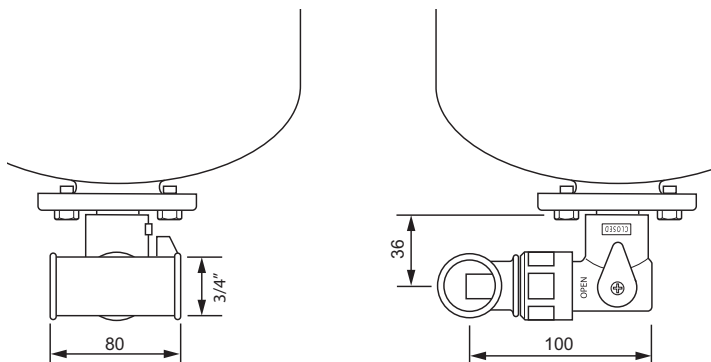
WRAS Approved

### Typical Installation

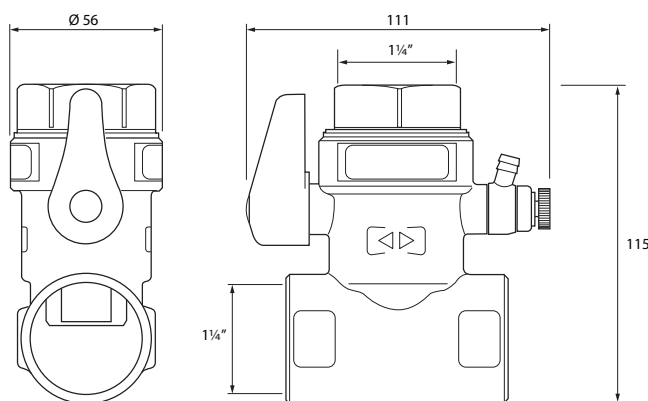


ANTI100001 shown in place on an expansion vessel  
(available separately, in a range of sizes)

### Dimensions



**ANTI100001**  
(shown in place, attached to vessel)



**ANTI100005**

All dimensions shown in mm unless otherwise stated

# AUTOMATIC ANTI-VACUUM VALVE

## *Specification Sheet*

### Features and Benefits

- Gives automatic protection against a vacuum forming in hot water installation
- Solid brass body for long life
- Easy access to the internals from the top of the valve
- Quick and simple to service



### Description

A compact range of Anti-Vacuum Valves for use with hot water heaters to prevent a vacuum forming in installations where there is the potential for the draw off rate to exceed the rate of flow to the inlet; this can occur in properties with multiple outlets below the base of the hot water heater. The valves contain a check cartridge which, under normal conditions, is held closed by the system pressure, but when a vacuum condition arises the suction will cause the check cartridge to open and air to flow through, equalising the pressure within the hot water heater.

# AUTOMATIC ANTI-VACUUM VALVE

## Specification Sheet

### Specifications

Maximum working pressure	16bar
Maximum Temperature: ADMT 503 001	99°C
Opening Pressure	0.05bar

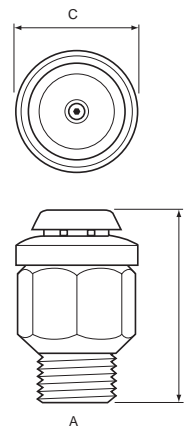
### Approvals

WRAS

### Product Code

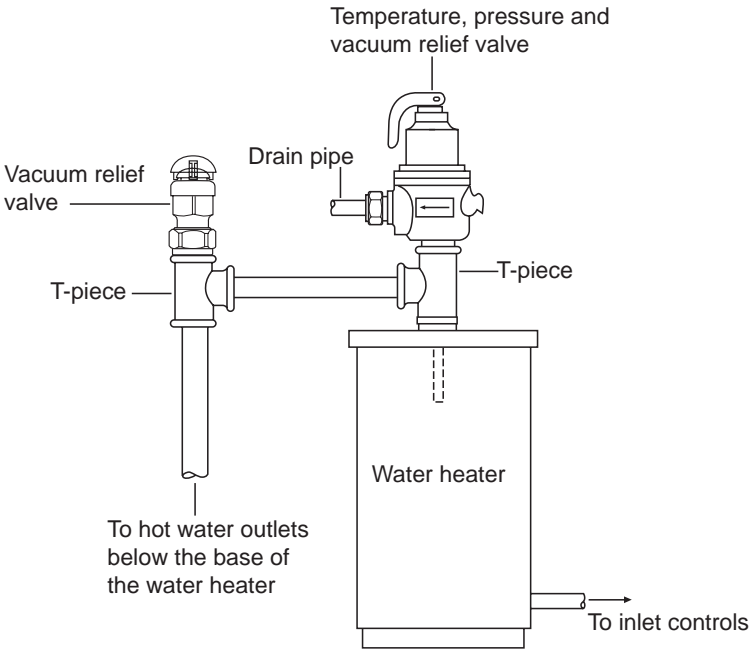
ADMT 503 001      ½"MBSP Automatic Anti-Vacuum Valve

### Dimensions



ADMT 503 001

### Typical Installation



Product Code	A	B	C
ADMT 503 001	½" MBSP	49	32

All dimensions shown in mm unless otherwise stated



# POTABLE PRESSURE RELIEF VALVES

## *Specification Sheet*

### I04 Series

#### Features and Benefits

- Allows a high capacity discharge
- Diaphragm design gives improved resistance against scale
- Protects against over pressurisation
- Rapid removal of single piece cartridge for cleaning or replacement
- Multiple connections for flexible installation
- Set relief pressure range from 3.5-8bar



#### Description

High capacity range of pressure relief valves, designed to protect an unvented system from over pressurisation. The valves are pre-set and locked to a particular pressure, so if the system exceeds this pressure the valve will lift off the seat and water will discharge from the valve, to waste. The outlet connection is one size larger than the inlet to guarantee the valve will be able to cope with a high capacity discharge. This is the first safety device in line within an unvented system. These valves are available in many different pressures ranging from 3.5-8bar and in multiple connection sizes to allow for a flexible installation.

Product Code	Description	DN Size	KW Rating (6.0Bar)
PREL104010	3/4 x 1" FxFBSP 6.0Bar Pressure Relief Valve	20	189
PREL104002	1" x 1 1/4" FxFBSP 6.0Bar Pressure Relief Valve	25	379
PREL104005	1 1/4" x 1 1/2" FxFBSP 6.0Bar Pressure Relief Valve	32	666
PREL104012	1 1/2" x 2" FxFBSP 6.0Bar Pressure Relief Valve	40	1140
PREL104015	2" x 2 1/2" FxFBSP 6.0Bar Pressure Relief Valve	50	1700

# POTABLE PRESSURE RELIEF VALVES

## Specification Sheet

### Specifications

Body test pressure	20bar
Maximum temperature	110°C
Pre-set pressure range	3.5-8bar

### Approvals

WRAS

### Standards

BS EN 1491

### Product Codes

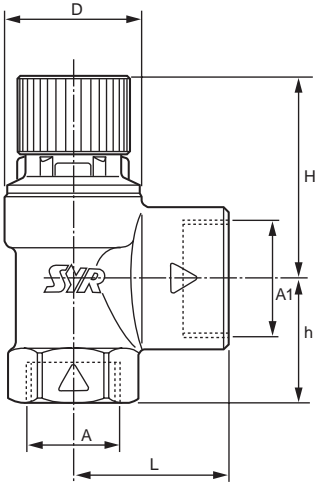
#### Potable Pressure Relief Valves

Code	Connection size	Pre-set pressure setting
PREL 104 010	¾" x 1" FF	6bar
PREL 104 002	1" x 1¼" FF	6bar
PREL 104 005	1¼" x 1½" FF	6bar
PREL 104 012	1½" x 2" FF	6bar
PREL 104 015	2" x 2½" FF	6bar

#### Also available with set pressures:

3.5bar  
5bar  
8bar

### Dimensions



A	AI	H	h	L	D
¾"	1"	48	34	38	31
1"	1¼"	79	40	47	49
1¼"	1½"	110	46	53	51
1½"	2"	136	55	70	75
2"	2½"	195	66	75	75

All dimensions shown in mm unless otherwise stated

### Materials

Body ¾" & 1"	DZR Brass
Body 1¼"	Brass CZ121 nickel plated
Body 1½" & 2"	Gunmetal
Diaphragm	EPDM
Seal	EPDM
Spring	Stainless Steel
Cap	High grade glass fibre reinforced plastic

# FVMX

## FVMX

PTEM600001

3/4"MBSP x 3/4"FBSP 7bar

PTEM600002

1"MBSP x 1"FBSP 7bar

PTEM600003

1 1/4"MBSP x 1"FBSP 7bar

PTEM600004

1 1/2"MBSP x 1 1/2"FBSP 7bar

PTEM600005

2"MBSP x 2"FBSP 7bar



## Overview

High capacity pressure and temperature relief valves designed to provide protection against over pressurisation or extreme temperatures over 95°C which can occur within an unvented hot water system, if the input temperature or pressure controls fail. The valves are designed to be fitted to the upper portions of a hot water cylinder as this is where the hottest temperature within the system will be found. If the valve is opened it will lift off its seat and release the water to waste, thereby reducing the pressure or temperature within the cylinder. The larger FVMX valves are especially suited for commercial applications.



# LEVER TOP PRESSURE & TEMPERATURE RELIEF VALVES - FVMX SERIES

## Features and Benefits

- Offer high capacity protection for domestic and commercial applications
- Protect against temperatures rising above 95°C
- Prevent over pressurisation
- Lever style easing mechanism
- Range of different connection sizes

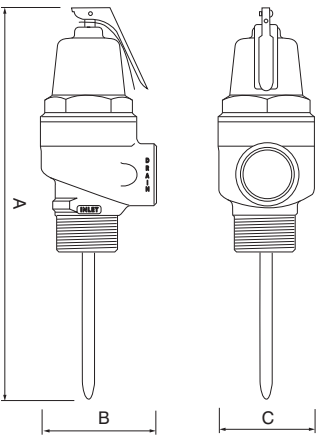
## Specifications

Pre-set pressure	7bar
Maximum Temperature	90-95°C
KW Rating:	
FVMX 3/4"	25kW
FVMX 1"	50kW
FVMX 1 1/4"	80kW
FVMX 1 1/2"	173kW
FVMX 2"	184kW
Maximum ambient temperature	100°C

## Standards and Approvals

BS EN 1490  
WRAS

## Dimensions

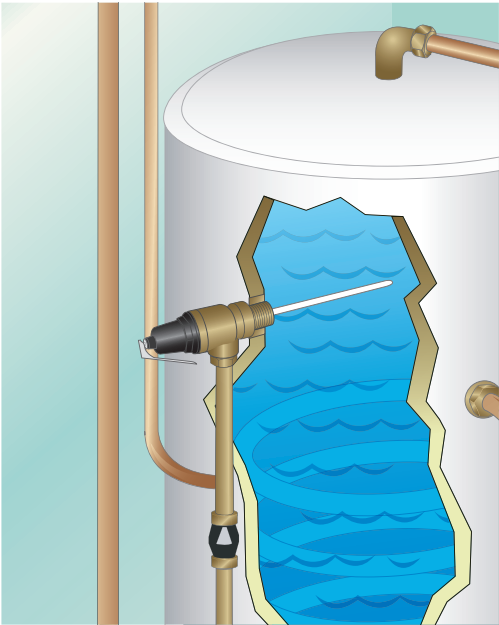


FVMX

Product Code	A	B	C
FVMX			
PTEM600001	260	62	45
PTEM600002	260	59	45
PTEM600003	260	77	64
PTEM600004	295	100	79
PTEM600005	295	103	79

All dimensions in mm unless otherwise stated.

## Typical Installation



Product Code	Description	DN Size	KW Rating
FVMX			
PTEM600001	T&P FVMX-5 3/4" BSP 7Bar Boxed	20	25
PTEM600002	T&P FVMX-5 1" BSP 7Bar Boxed	25	50
PTEM600003	T&P FVMX-4 1 1/4" x 1" BSP 7Bar Boxed	32	80
PTEM600004	T&P FVMX-2 1 1/2" BSP 7Bar Boxed	40	173
PTEM600005	T&P FVMX-2 2" BSP 7Bar Boxed	50	184

### FIG 500T COMBINED PRESSURE & TEMPERATURE RELIEF VALVE

#### FEATURES & BENEFITS

The NABIC Fig 500T provides protection against excess temperature as well as pressure protection. It automatically discharges hot water to prevent a predetermined set pressure and/or temperature being exceeded. Each of the lift mechanisms is independent of each other. Designed and tested to BS EN 4126, BS 6283 (when 50% of BS EN ISO 4126 -1 ratings at 1 bar or temperature ratings are used). WRAS approved (1 bar and above).

- Size Range: DN15 - DN50
- Resilient Viton soft seat design
- Powerful thermostat
- Pressure setting locked and sealed
- Drain plug fitted on DN32 and above

#### PRESSURE RATINGS & TEMPERATURE RANGE

MIN - MAX SET PRESSURE (bar)	MIN - MAX TEMPERATURE (°C)
0.4 to 12.5	-20 to 95

#### DIMENSIONS & WEIGHTS

SIZE DN	R BSPT Inlet	Rp BSP Outlet	A (mm)	B (mm)	C (mm)	D (mm)	WEIGHTS (kg)
15	3/4"	3/4"	33	81	48	229	0.72
20	1"	1"	39	81	47	238	1.00
25	1 1/4"	1 1/4"	45	88	56	269	1.54
32	1 1/2"	1 1/2"	54	127	62	354	3.00
40	2"	2"	64	127	71	398	4.50
50	2 1/2"	2 1/2"	76	127	82	429	7.78

#### PART NAME & MATERIALS

ITEM NO.	PART NAME	MATERIAL
1	Thrust Washer	Brass, BS EN 12164 CW609N
2	Grubscrew	Steel
3	Test Lever	Brass, BS EN 1982 CC754S
4	Spring	Chrome Vanadium Alloy Steel, BS 2803 735 A50 HS (Stainless Steel, BS 2056 302S26 Opt)
5	Label	Yellow kapton
6	Spring Cover	Bronze, BS EN 1982 CC491K
7	Piston	Brass, BS EN 12164 CW609N
8	Diaphragm	Silicon Rubber
9	Seat Seal Holder	Bronze, BS EN 1982 CC491K / Brass BS EN 12164 CW602N (DZR)
10	Seat Seal	PTFE (Viton Opt)
11	Starlock Washer	Stainless Steel
12	Body	Bronze, BS EN 1982 CC491K
13	Lever Pin	Steel
14	Lead Seal	Lead
15	Adjusting Screw	Brass, BS EN 12164 CW609N
16	Spring Plate	Brass, BS EN 12164 CW609N
17	Spindle	Brass, BS EN 12164 CW721R
18	Seat Seal Retaining Plate	Bronze, BS EN 1982 CC491K / Brass BS EN 12164 CW602N (DZR)
20	Push Rod	Stainless Steel, BS 970 316 S31
21	Adaptor	Brass, BS EN 12164 CW602N (DZR)
22	Thermostat	Copper/Brass BS EN 12164 CW602N (DZR)



#### MEDIUM

Hot water only.

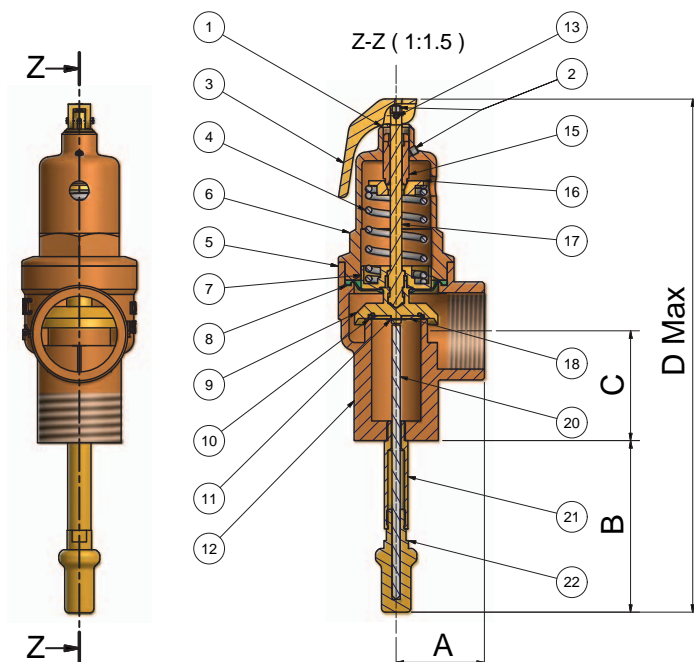
#### PIPE CONNECTIONS

Threaded male inlet connection R (BSPT) to BS EN 10226-2. Threaded female outlet connections Rp (BSP) to BS EN 10226-1.

#### PRODUCT TESTING

All valves are shell and seat tested (to confirm set pressure) before leaving the factory and all valves are supplied pre-set with a tamper proof seal. Pressure Test Certificate and Letters of Conformity available on request.

#### DIMENSIONAL DRAWING



# FIG 500T COMBINED PRESSURE & TEMPERATURE RELIEF VALVE

## COMBINED PRESSURE & TEMPERATURE RELIEF VALVES DATA SHEET

### TEMPERATURE RATING

The discharge capacity of the safety valve must be equal to or greater than the output of the boiler or system it is protecting. Two methods of sizing are employed for combined pressure and temperature relief valves; one, based on the pressure element of the valve, the other based on the temperature element. To ensure that the correct method is used, reference should be made to the relevant BS specification to the design of the boiler or system. If in doubt, choose the method which produces the lower rating.

SIZE	DN15	DN20	DN25	DN32	DN40	DN50
kW	25	45	65	105	165	255

To convert to Btu/hr multiply by 3400.

The above discharge capabilities represent approximately 45% of the relief capability of the valve, when steam at the pressure of 1 bar causes the thermostat to open the valve.

### DISCHARGE CAPABILITIES

Fig 500T capacities are tabulated below to assist selection.

HOT WATER - UNVENTED SYSTEM - 10% OVERPRESSURE (BS 6759)						
SET PRESSURE BAR	kW					
	DN15	DN20	DN25	DN32	DN40	DN50
1.0	46	81	127	208	326	509
2.0	70	124	194	317	496	775
3.0	94	167	260	427	667	1041
4.0	118	209	327	536	837	1308
6.0	166	294	460	754	1179	1841
8.0	214	380	594	972	1520	2373
10.0	262	465	727	1190	1861	2906
12.5	322	571	894	1463	2287	3572

To convert to Btu/hr multiply by 3400.

The above discharge capabilities have been calculated in accordance with BS 6759:Part 1, using a derated coefficient of discharge (Kdr) of 0.479.

They represent the steam relief capability of the pressure element of the valve at 10% overpressure.

### APPROVALS



ISO 14001 Reg No. EMS 78657



FM00311 ISO 9001



Pressure Equipment Directive  
PED 97/23/EC and  
Article 13 of 2014/68/EU

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## Appendix 1 – Nabic Fig 500

### Nabic Fig 500 High Lift Safety Valve:

#### DISCHARGE CAPABILITIES

The discharge capacity of a safety valve must be equal to or greater than the output of the boiler or system it is protecting. To ensure that the correct method of sizing is used, reference should be made to the relevant BS specification for the design of the boiler or system. Fig 500 capacities are tabulated below to assist selection.

HOT WATER - UNVENTED SYSTEM - 10% OVERPRESSURE (BS EN 4126-1)								
SET PRESSURE BAR	kW (Kdr=0.479)							
	* DN10	* DN15	DN20	DN25	DN32	DN40	DN50	DN65
1.0	31	59	104	162	266	416	650	1098
2.0	48	89	158	248	405	634	990	1673
3.0	64	120	213	333	545	852	1330	2248
4.0	81	151	267	418	684	1070	1670	2824
6.0	114	212	376	588	963	1505	2351	3974
8.0	147	273	485	758	1242	1941	3032	5124
10.0	180	335	594	929	1520	2377	3712	6275
12.5	221	411	730	1141	1869	2922	4563	7713

To convert to Btu/hr multiply by 3,400

The capacities tabulated are for unvented (pressurised or sealed) heating systems.

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**STOKVIS ENERGY SYSTEMS**

**Unit 34 Central Park Estate**

**34 Central Avenue**

**West Molesey, Surrey**

**KT8 2QZ**

**Tel: 020 8783 3050**

**Fax: 020 8783 3051**

**E-Mail: [info@stokvisboilers.com](mailto:info@stokvisboilers.com)**

**Website: [www.stokvisboilers.com](http://www.stokvisboilers.com)**

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