



## PVA34L

### lockable isolation valve

SD 062 08-10-2020

#### Introduction

In an unvented domestic hot water system the expansion vessel is installed in the cold water supply pipe close to the hot water cylinder or calorifier or in the return to the boiler in heating systems.

Expansion vessels are designed to absorb the increase in volume of water created by thermal expansion as the temperature rises.

A domestic hot water system is a 'closed system' when it is isolated from the public water supply by a uni-directional valve such as a check valve, backflow preventer or pressure reducing valve.

To absorb the increase in volume of water within the storage cylinder provision must be made for the expansion by fitting a suitably sized expansion vessel.

As the pressure in the system changes the pre-charge pressure will allow water into the expansion vessel or force it out again.

#### Isolation - Drain Valve

The PVA34L has been specifically designed to allow for the expansion vessel to be fitted easily and conveniently to the system.

The compact design requires a minimum of space and includes several useful features.

The valve has a female union connection to fit to the expansion vessel and a female connection to connect to the pipework making a secure joint.

The ball valve allows the expansion vessel to be isolated from the system.

The lever has a button operated safety feature which prevents accidental isolation, which could cause a major safety hazard.

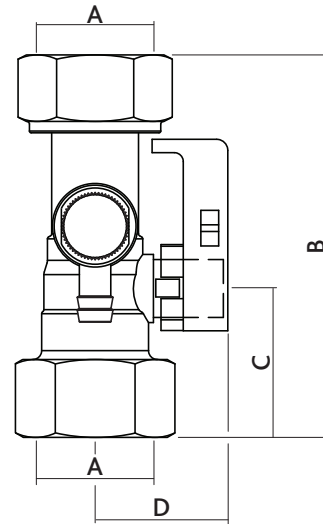
The drain feature allows the expansion vessel to be drained of liquid should it need to be removed for any reason, minimising any water spillage during removal.

#### Functions

The PVA34L valve enables 3 functions to be performed easily.

- A union connection for easy fitting
- Isolation should the expansion vessel need to be removed
- Drain facility to allow the expansion vessel to be drained without draining the circuit or system.

#### Dimensions



Ref No	A	B	C	D	kg
PVA34L	G $\frac{3}{4}$	86	34	30	

#### Technical Specification

Max. working pressure:	10 bar
Max. operating temperature:	120°C
Connection threads:	BE EN ISO 228
Body material:	Brass
	BS EN 12420 CW617N