PVA G flow through

potable water
expansion vessels

NITROGEN FILLED VESSELS

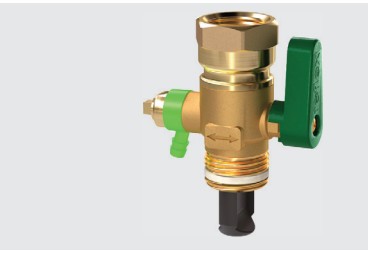
reflex

WRAS APPROVED PRODUCT

altecnic 5YEAR VESSEL WARRANTY

altecnic

PVA G flow through potable water expansion vessels



Introduction

Flow through expansion vessels prevent the build-up of potentially harmful bacteria in potable water by reducing stagnation with the vessel.

The innovative design encourages flushing through the vessel, greatly reducing the opportunity for clusters to form.

NOTE: using the optional Flowjet valve is recommended.

The expansion vessels are manufactured to meet the requirements of 2014/108/EC Directive

Design

Manufactured in carbon steel with a multi part welded construction.

Pre-pressurised air chamber with synthetic rubber compound bladder.

The internal surfaces of the vessel in contact with the water are coated against corrosion.

External surfaces have a green durable powder coated finish.

Suitable for temperatures up to 70˚C, resistant to ethylene or propylene glycol mixtures and has low gas permeability.

Rp¾ bronze 'Tee' supplied as standard for easy installation

33 litre vessel has integral wall mounting bracket.

Altecnic expansion vessels are all tested according to the Pressure Systems Directive.

How It Works

In a closed hot water circuit, the water cannot be compressed so any increase in volume, created by an increase in temperature, has to be accommodated by an expansion vessel.

When water is cold, the pre-charge pressure forces the bladder to collapse until the pump is started when the bladder starts to inflate.

As the temperature in the system increases, with the associated increase in pressure and volume, the expanded water enters the bladder creating additional volume and lowering the pressure.

When the temperature decreases, the pre-charge pressure forces the water from the bladder and back into the main water circuit.

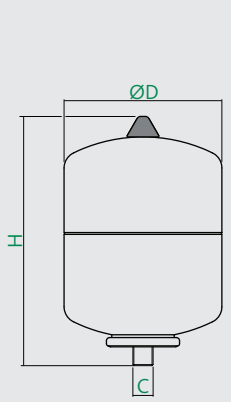
Materials

Component	Material
Shell	Carbon steel
Connection	Stainless steel
Bladder	Butyl elastomer
Coating	Powder epoxy

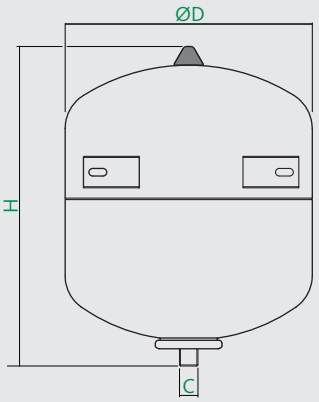
Technical Specification

Max. working pressure:	10 bar
Max. operating temperature:	70˚C
Factory air pre-charge:	4.0 bar - nitrogen
System water connection thread:	BS EN ISO 228 - male parallel

Dimensions



8 to 25 litre



33 litre with wall bracket

Product Code	Capacity	ØD	H	C	Weight
	litres	mm	mm	Connection	kg
PVA8G	8	206	344	G¾B	1.7
PVA12G	12	280	318	G¾B	2.0
PVA18G	18	280	418	G¾B	2.5
PVA25G	25	280	528	G¾B	3.3
PVA33G	33	354	468	G¾B	5.8

Anti-legionella

When fitted with the PVACC Flowjet valve the vessel is anti-legionella.

The PVACC Flowjet valve is supplied as an optional component.

Flowjet Valve

The Flowjet valve enable 4 functions to be performed easily.

- Continuous water flow through the bladder helping to maintain the quality of the potable water by minimising stagnation.
- Isolation should the expansion vessel need to be removed
- Drain facility
- Bypass

Product Code: PVACC1

CE marked

WRAS Approved Product

Altecnic Ltd Francesco House, Staples Close, Stafford ST16 1WQ
T: +44 (0)1785 218200 E: sales@altecnic.co.uk
Registered in England No: 02095101
altecnic.co.uk

AL 124 22-05-25

E & O.E