



PVA G

flow through potable water exp. vessels 60 to 1000 litre

SD 059 21-09-2020

Introduction

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

Expansion vessels for heating systems are manufactured to meet the requirements of PED 97/23/EC Directive and BS EN 13831:2007 'Closed expansion vessels with built in diaphragm for installation in water'.

Nitrogen improves the life of the expansion vessel by reducing internal corrosion and prevents the loss of pre-charge pressure.

Design

Manufactured in carbon steel with a multi part welded construction.

Non-replaceable membrane.

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

External surfaces have a blue durable powder coated finish.

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

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

How It Works

In a closed hot water circuit 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 diaphragm against the tank towards the inlet.

As the temperature increases, the expanded water volume pushes against the diaphragm creating additional volume for the water to enter.

When the temperature decreases, the pre-charge pressure forces the water from the tank and back into the main heating system.

This maintains a constant pressure within the heating system helping to reduce energy consumption.

Component

- Shell & connections
- Membrane
- Coating

Material

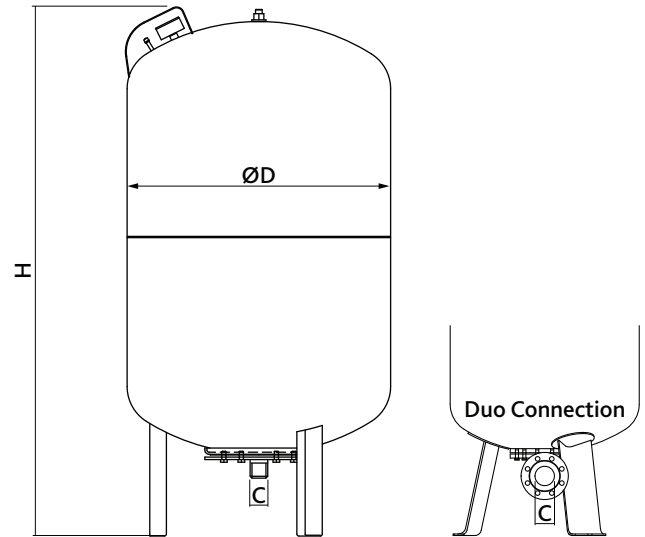
- Carbon Steel
- Butyl elastomer
- Powder Epoxy

Technical Specification

- Max. working pressure: 10 bar
- Test pressure: 1.5 x max working pressure
- Max. vessel operating temperature: 70° C
- Factory pre-charge: 4.0 bar - nitrogen
- Water connection thread: BS EN ISO 228

CE marked

Dimensions

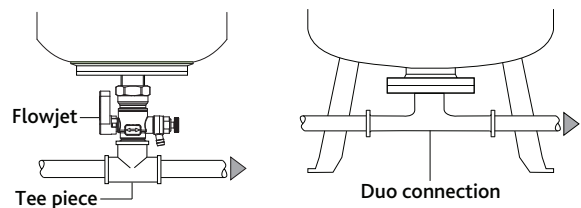


Ref No	Capacity	ØD	H	C	Weight
	litre	mm	mm	Connection	kg
PVA60G	60	409	760	G1¼	15
PVA80G	80	480	750	G1¼	17
PVA100G	100	480	834	G1¼	19.2
PVA200G	200	634	973	G1¼	37
PVA300G	300	634	1273	G1¼	64
PVA400G	400	740	1245	G1¼	74
PVA500G	500	740	1495	G1¼	72
PVA600G	600	740	1860	G1¼	168
PVA800G	800	740	2324	G1¼	208
PVA1000G	1000	740	2804	G1¼	264

Anti-legionella

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

The PVACC Flowjet valves are supplied as an optional component.



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