

SSV C stainless steel

expansion vessel



altecnic

SSV C stainless steel expansion vessels



Introduction

Altecnic offer a complete range of stainless steel expansion vessels for use on applications where hygiene is of paramount importance, for use with potable water and similar applications.

The expansion vessels are manufactured to meet the requirements of PED 97/23/EC Directive.

Design

Designed for higher system pressures up to 10 bar.

Manufactured from AISI 304 stainless steel.

Pre-pressurised air chamber with EPDM rubber membrane.

The EPDM membrane is non-toxic with low gas permeability.

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

Available suitable for 16 and 25 bar applications upon request.

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 membrane to collapse until the pump is started when the membrane starts to inflate.

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

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

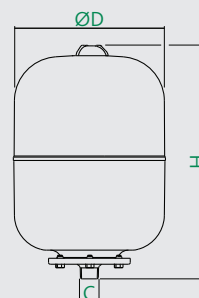
Materials

Component

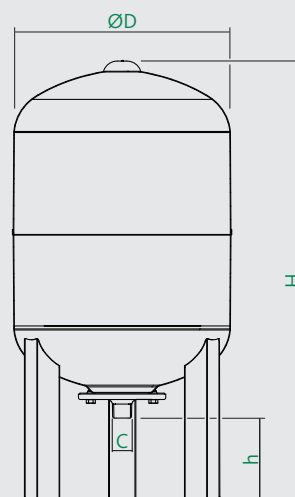
Shell	AISI 304 stainless steel
Connection	AISI 304 stainless steel
Counter flange	AISI 304 stainless steel
Fasteners	AISI 304 stainless steel
Membrane	EPDM elastomer

Material

Dimensions



Product Code	Capacity	ØD	H	C	Weight
	litres	mm	mm	Connection	kg
SSV8C	8	200	340	G3/4B	
SSV18C	18	270	415	G1B	
SSV24C	24	270	512	G1B	



Product Code	Capacity	ØD	H	h	C	Weight
	litres	mm	mm	mm	Connection	kg
SSV50C	50	365	729	135	G1B	
SSV100C	100	496	818	117	G1B	

Technical Specification

Max. operating pressure:	10 bar
Max. operating temperature:	100°C
Factory pre-charge:	2.0 bar - air
Membrane:	Replaceable
System water connection thread:	BE EN 228
WRAS approved product	

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