

# SSV C stainless steel

expansion vessel



**altecnic**  
Caleffi group

# SSV C stainless steel expansion vessel



## 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 14 bar.

Manufactured from AISI 316 stainless steel.

Pre-pressurised air chamber with EPDM rubber membrane.

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

Sizes 150 litre and large are supplied with an integral wall bracket for additional security.

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	Material
Shell	AISI 316 stainless steel
Connection	AISI 316 stainless steel
Counter flange	AISI 316 stainless steel
Fasteners	AISI 304 stainless steel
Membrane	EPDM elastomer

## Maximum Working Pressures

Capacity - litres	bar	Capacity - litres	bar
1.5, 5, 8, 12, & 35	14	100	9
20	13	150, 200 & 300	8
50	11	500	6

## E & O.E

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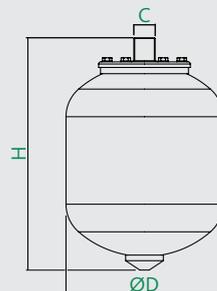
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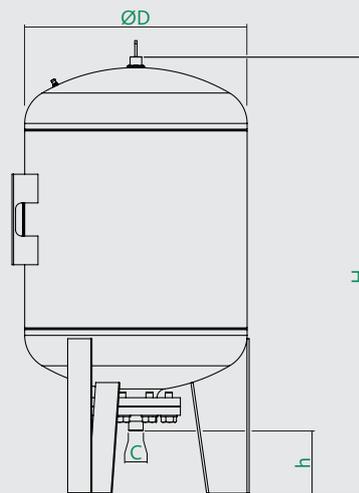
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## Dimensions



Product Code	Capacity	ØD	H	C	Weight
	litres	mm	mm	Connection	kg
SSV2A	1.5	114	200	G¾B	0.8
SS5C	5	250	240	G1B	2.2
SS8C	8	250	264	G1B	2.4
SSV12C	12	250	370	G1B	3.1
SSV20C	20	250	490	G1B	4.4
SSV35C	35	350	480	G1B	7.2



Product Code	Capacity	ØD	H	h	C	Weight
	litres	mm	mm	mm	Connection	kg
SSV50C	50	350	770	130	G1B	24
SSV100C	100	450	910	131	G1B	27
SSV150C	150	500	994	147	G1B	54
SSV200C	200	550	1203	132	G1½B	63
SSV300C	300	650	1202	118	G1½B	111
SSV500C	500	750	1449	104	G1½B	123

## Technical Specification

Max. operating temperature:	85°C
Factory pre-charge:	2.0 bar - air
Membrane:	Replaceable
System water connection thread:	BE EN 228
CE marked	
WRAS approved product	

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