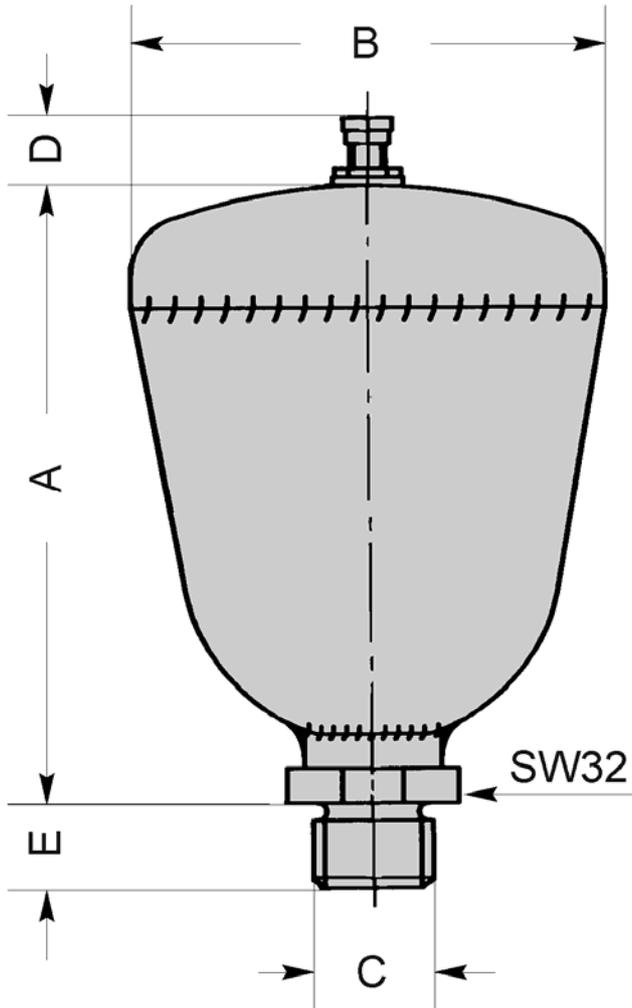


PRESSURE ACCUMULATOR

for HIGH PRESSURE PUMPS



Effective: 10.03



Casing: Stainless Steel

Bladder: NBR-Rubber
resistant to mineral oils
grease and washing liquids

Filling Gas: Nitrogen

Gas Pretension: 50% of operating pressure

**Admissible
Operating
Temperature:** -15°C to + 90°C

Installation: Any position is suitable

Instructions overleaf

DS 270/24 Code No. 00.4136
DS 270/46 Code No. 00.1586
DS 800/24 Code No. 00.1587
DS 800/64 Code No. 00.1588

Model	Volume	max. admissible Operating Pressure	A	B	C	D	E	Weight
DS 270/24	270 cm ³	24 bar	111	ø87	G 1/2	18	17	0.62 kg
DS 270/46	270 cm ³	46 bar	111	ø87	G 1/2	18	17	0.62 kg
DS 800/24	800 cm ³	24 bar	154	ø116	G 1/2	18	17	~1.30 kg
DS 800/64	800 cm ³	64 bar	154	ø116	G 1/2	18	17	~1.30 kg

Dimensions in mm

OPERATING INSTRUCTIONS

INSTALLATION MAINTENANCE

SPECK PRESSURE ACCUMULATORS

1. General Operating Instructions

The purpose of a pressure accumulator is to maintain pulsation-free flow and to preserve pump gears and seals. Gas-pretension must be 50% of the pump operating pressure.

These pressure accumulators are made of stainless steel and the bladder is resistant to normal washing liquids as well mineral oils, grease, normal gasoline (not super) and petroleum. Admissible operating temperatures are from -15° C to +90 ° C.

2. Position for Application

The pressure accumulator can be installed in any position. For optimal effectiveness, it should be installed in the discharge line right behind the pump. It can of course, also be screwed into the discharge casing of the pump. The exception to the rule is, when it is used in systems in which the water temperature is higher than 90°C. In this case, it is advisable to install the pressure accumulator right behind the pump, in vertical position and as far away from the flow line as possible. A clearance of 30-50cm has proved positive.

The connection between the pressure accumulator and the discharge line should be the same width as the connection on the pressure accumulator. This keeps the water which comes in contact with the bladder, at least 20°C cooler. This method of installation helps increase the life of the pressure accumulator compared to when its mounted direct to the pump and also allows for the pressure accumulator to be used in trouble-free continuous operation at a water temperature of 110°C.

3. Safety

A pressure gauge must be installed to control the operating pressure. A safety-valve is an absolute necessity. TÜV-Inspection (German Technical Control) is not stipulated by the rules and regulations for this pressure accumulator.

Caution: Prior to doing any maintenance work on systems with pressure accumulators, The pressure on the system must be at zero.

4. Gas-Pretensioning

The pressure accumulators are charged to the pretension stated on the name plate. This is done at the factory at room temperature. Varying operating temperatures effect the pretensioned gas accordingly. Gas filled is nitrogen.

5. Loss of Pretensioned Gas

A certain amount of gas always escapes from a pressure accumulator because an absolutely seal-proof material does not exist. The pressure accumulator must be checked regularly to ensure optimal effectiveness. If the pretensioned gas drops too much, inadmissible pressure peaks will occur in the system which cause damage to the pump and to the bladder of the pressure accumulator.

6. To Check Pretensioned Gas

A built-in pressure gauge is the simplest way of checking the gas in the accumulator. When emptying an accumulator filled with liquid, the pressure decreases slowly. The pressure collapses immediately the pretensioned value is reached.

This can be seen on the gauge.

The gas tension can also be checked by a filling device with a pressure gauge but on no account is the filling valve alone to be used for this purpose as this will cause the tensioned gas to drop below the required value.

7. To Readjust the Pretensioned Gas Level

The pressure accumulator can be recharged either at the factory or at a service station if they have the required pressure. The pressure accumulator is filled with nitrogen at the factory but compressed air can also be used.