

AS Spherical accumulators



► Technical description

LEDUC spherical accumulators consist of two hemispherical shells which are screwed together and which hold a diaphragm. This diaphragm has a metal stud which closes off the operation hole when the fluid is completely discharged. There is therefore no danger of damage to the diaphragm.

The gas side port is fitted with a charging valve allowing the pressure in the accumulator to be checked or changed.

Separator:

- Standard, Nitrile: from -20°C to +100°C
- Special: from -40°C to +100°C dynamic use.

► Advantages

The diaphragm only changes position, the elastomer in fact works little. The LEDUC spherical accumulator owes most of its qualities to its diaphragm and metal pin:

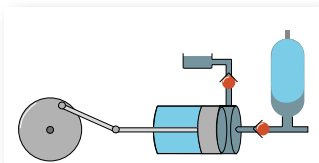
- excellent gas/fluid tightness,
- possibility of total and rapid discharge,
- can be adapted to suit a wide range of fluids handled.

► Operating fluids

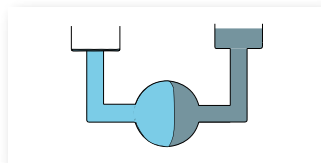
- Mineral-based hydraulic fluids: standard diaphragm.
- Corrosive or non-standard fluids: please consult our Customer Service Department.

► Examples of applications

Pulsation dampening



Transfer



AS 400 bar

Maximum pressure: 400 bar

Extreme operating temperature:

- Standard version : -20°C to + 100°C
- Low temperature version: -40°C to + 100°C

► Deformation of the bladder-diaphragm



► Filling gas

Nitrogen only.

► Volumetric ratio(V0–V2)/V0

The volumetric ratio of this type of accumulator is 0.75.

For example: an AS 1 accumulator can take in a maximum volume of 0.75 V0 = 0.75 x 1 = 0.75 litres.

► Protection

On request, ARCOR® anti-corrosion treatment.

► Order code

Capacity and code	Protection	Type of diaphragm	Charging valve	Control	Charging pressure
AS 0.5 060972	S	E/1	310367	D	Specify (in bar)
S: without protection P: ARCOR® anti-corrosion treatment	E/1 or E/2 or E/3 or E/4 or E/5	310367: P1620 310527: P1620 Stainless steel 067210: SCHRADER	S: without control D: CE approval		

E/1: NBR (nitrile)

Specific diaphragms available on request, minimum order quantity may apply; please consult us.

E/2: NBR (nitrile stainless steel insert)

available on special order:

E/3: ECO (epichlorohydrine)

E/4: EPM (epr)

E/5: FKM (viton®)



AS series

AC 00 02	060955	0.017	400	0.640	see drawing
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ACCESSORIES

Volume (L)	Characteristics	LEDUC code
0.5 - 0.7	Zinc-plated steel	254021
	Zinc-plated steel quick-tightening	254031
	Stainless steel	254032

Technical drawing of a circular component (likely a flange or mounting plate) with the following dimensions:

- Overall diameter: $\varnothing 108$ to 118.5
- Flange thickness: 3
- Flange width: 73
- Mounting hole diameter: M8
- Mounting hole spacing: 90
- Mounting hole offset from center: 1.5
- Overall width: 160

②

24
13

30

M12 x 65 8.8

Ø D

8.5

L1

③

Technical drawing of a hexagonal nut. The drawing includes a perspective view of the nut and a cross-sectional view. The cross-section shows the internal thread. Dimension A indicates the height of the hexagonal body, and dimension B indicates the height of the threaded section.