

ACS(L) Welded cylindrical accumulators



► Technical description

The ACS(L) type welded accumulators are made up of a shell in high resistance steel containing a fluid-gas separator called a bladder-diaphragm. This bladder-diaphragm is made of nitrile for the standard range, and of hydrogenated nitrile for low temperature applications. The bladder-diaphragm is fitted with an anti-extrusion stud, thus allowing rapid and total discharge of the accumulator.

► Advantages

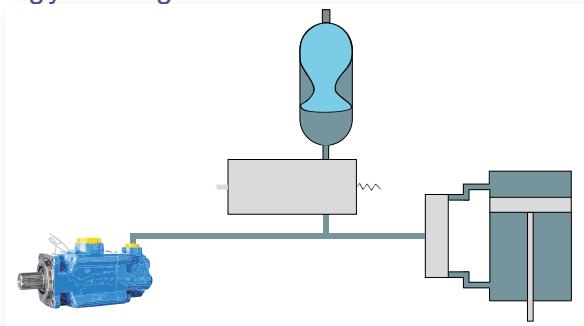
- Low temperature versions suitable for operation at temperatures down to -40°C (only for ACS series)
- Completely modular from 0.7 to 4 litres. This design concept means easy addition of intermediate models if required
- The bladder-diaphragm offers exceptionally good resistance to fatigue
- Rapid and total discharge possible due to the anti-extrusion stud actually fitted onto the bladder-diaphragm.

► Operating fluids

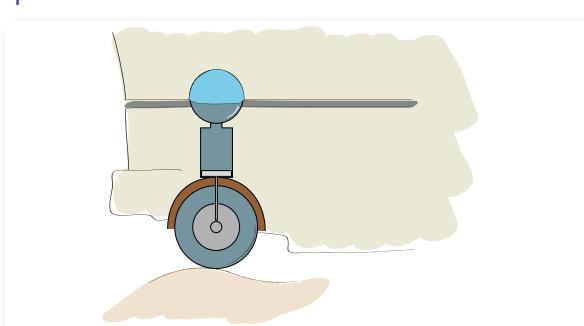
- Mineral-based hydraulic fluids.
- Other fluids: please ask.

► Examples of applications

Energy storage



Suspension



ACS 330 bar

Maximum pressure: 330 bar

Extreme operating temperatures :

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

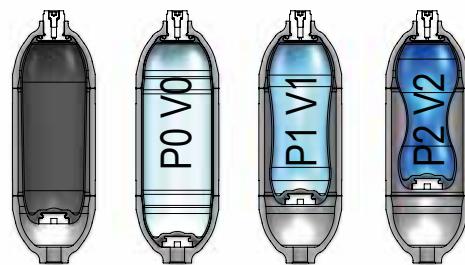
ACSL 250 bar

Maximum pressure 250 bar.

Extreme operating temperatures :

- Standard version : -20°C to +100°C

► Deformation of the bladder-diaphragm



► Filling gas

Nitrogen only.

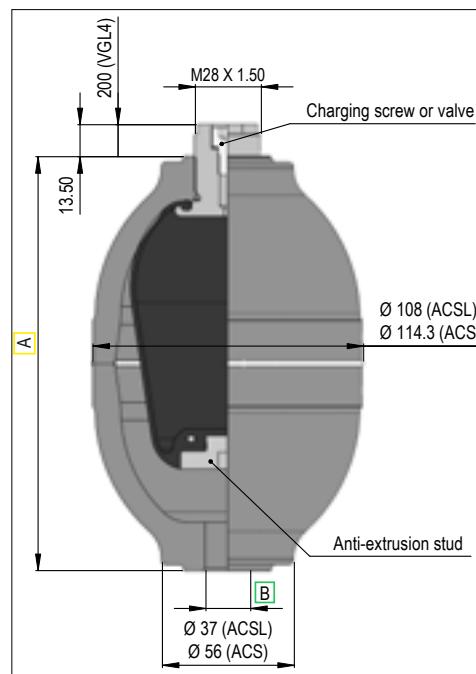
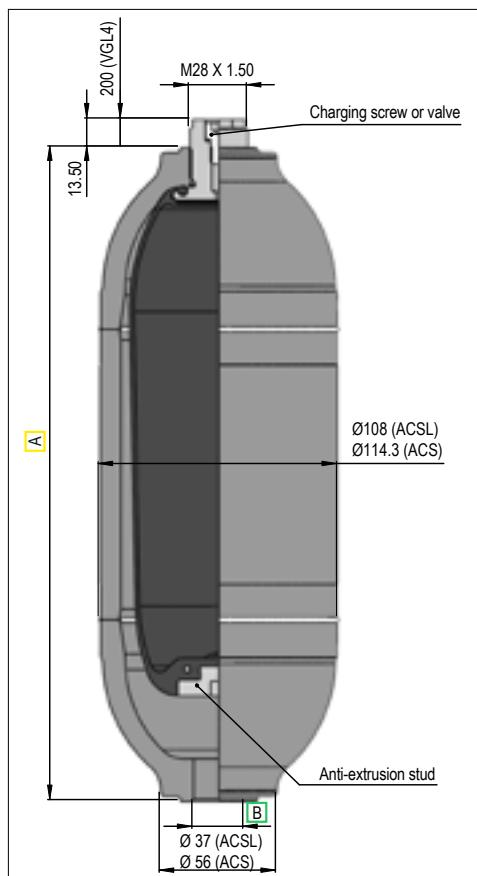
► Volumetric ratio (V0–V2)/V0

The recommended volumetric ratio of this type of accumulator is 0.75. For example: an ACS 4 accumulator can take in a maximum volume $0,75 V_0 = 0,75 \times 4 = 3$ litres.

► Tests et certificates

Designed and certified according to the European Directive 2014/68/UE. Other certificates on request.

ACS(L) Characteristics and dimensions



ACS(L) 0.7 L.

For **A** and **B** see the following table.

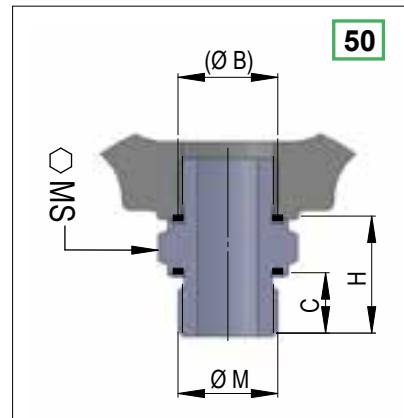
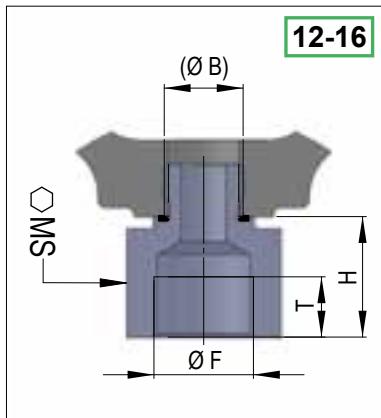
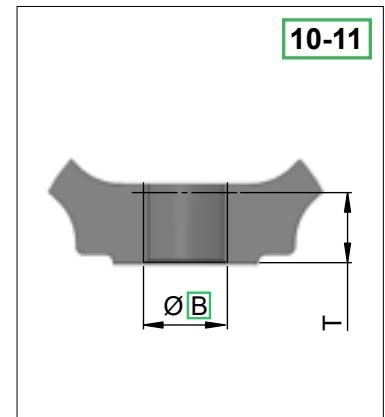
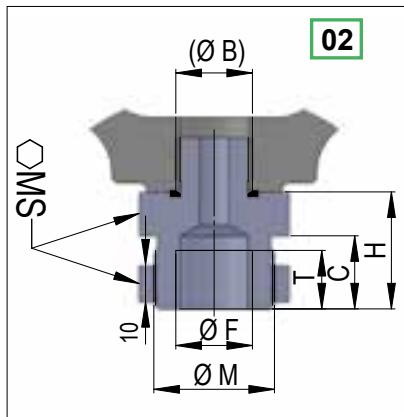
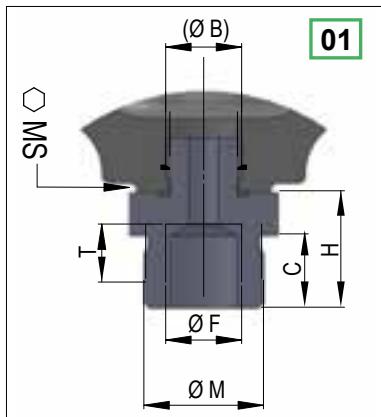
CHARACTERISTICS AND DIMENSIONS

	Volume (L)	Max. pressure (bar)	Weight (kg)	Length A (mm)	Diameter B (inches)
ACS	0.7	330	4	175	G1/2" or G3/4"
	1		5.9	236	
	1.5		7.8	315	
	2		9.9	392	
	2.5		11.5	463	G3/4"
	4		17.5	695	
	Volume (L)	Max. pressure (bar)	Weight (kg)	Length A mm	Diameter B (inches)
ACSL	0.7	250	3	175	G1/2" or G3/4"
	1		4.5	241	
	1.5		5.9	315	
	2		7.6	392	
	2.5		8.9	463	G3/4"
	4		13.9	696	

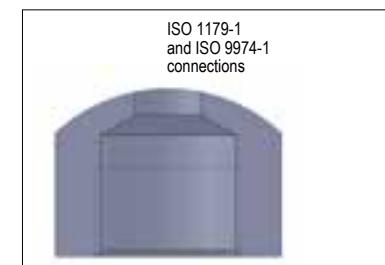
ACS(L)
01	02	03	04	05	06	07

To obtain the code of your welded cylindrical accumulator ACS(L), complete the different parameters from 01 to 07 in the table on the left according to the options you require (see table below).

► Hydraulic connections - Code 04



Connection for fittings : 13,15 and 16.

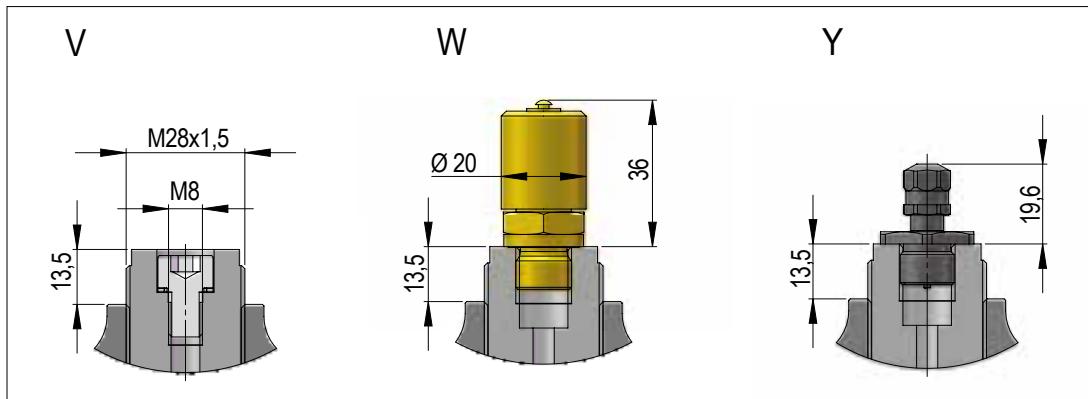


Connection for fittings : 02,01,12 and 14.

Code	$\varnothing B$	$\varnothing F$	H	SW	T useful	C	$\varnothing M$
01		G1/2"	32	41	16	20	M33x1.5
02	G1/2"	G1/2 - ISO 1179-1	-	-	-	-	-
10		without fitting	-	-	18	-	-
11		without fitting	-	-	18	-	-
12		G3/8 - ISO 1179-1	10	32	12	-	-
13		M16x1.5 - ISO 6149-1	10	32	13	-	-
14	G3/4"	M18x1.5 - ISO 09974-1	10	32	12	-	-
15		3/4-16UNF-2B - SAE J1926-1	25	32	14.3	-	-
16		1 1/16-12UNF-2B - SAE J1926-1	27	46	19	-	-
50		-	31	32	-	16	G3/4 - DIN 3852-11

Dimensions in mm.

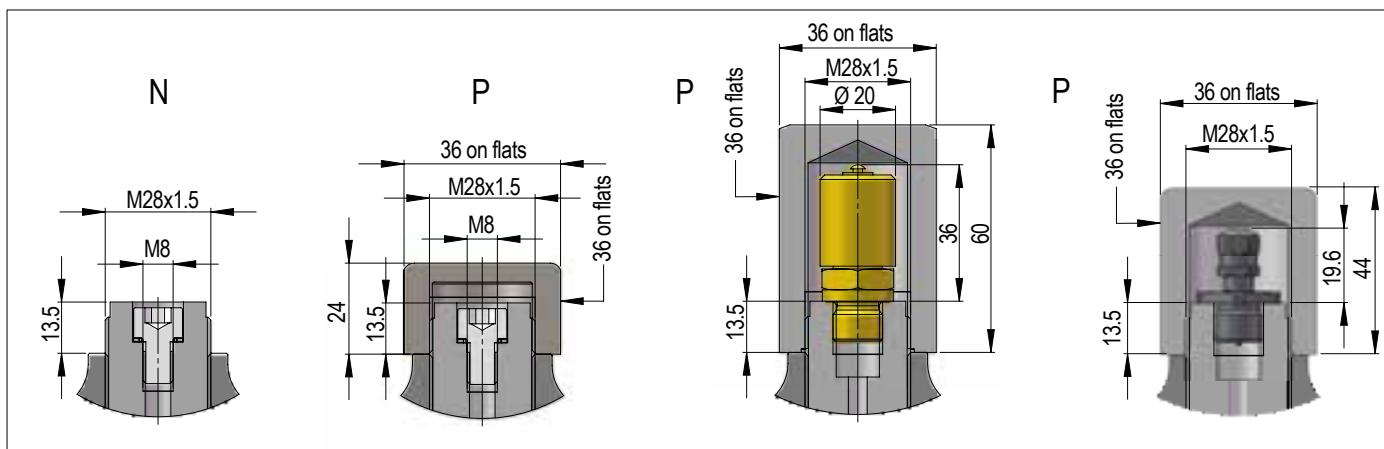
► Gas side connections - Code 05



Dimensions in mm.

► Gas side options - Code

06

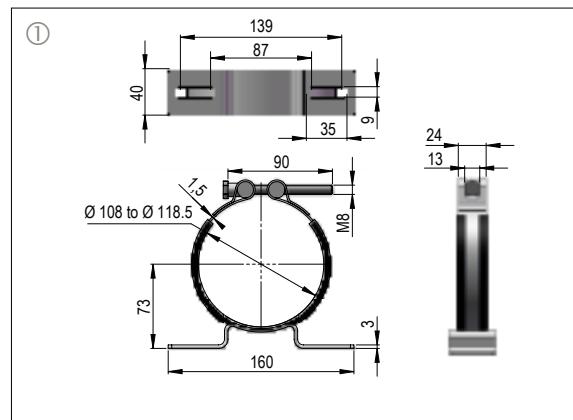


Dimensions in mm.

ACCESSORIES

► ACS(L) adjustable clamps ①

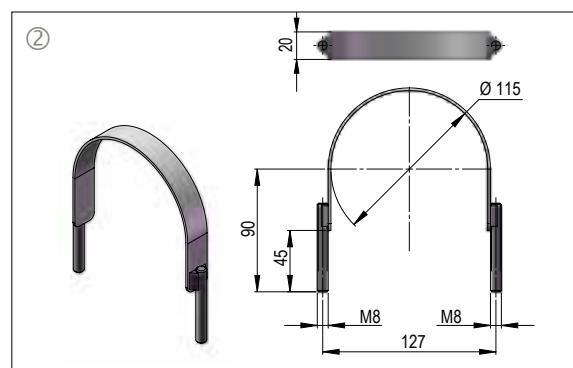
Volume (L)	Caracteristics	Code LEDUC
0.7 - 1 - 1.5 2 - 2.5 - 4	Zinc-plated steel	254021
	Zinc-plated steel quick-tightening	254031
	Stainless steel	254032



► ACS(L) fixed clamp ②

Volume (L)	Caracteristics	Code LEDUC
0.7 - 1 - 1.5	Zinc-plated steel	C001028

Tightening torque of the fixation screws: 20 Nm.



► ACS(L) clamps ③

Volume (L)	Caracteristics	Code LEDUC
0.7 - 1 - 1.5 2 - 2.5 - 4	Zinc-plated steel	C001031
	Stainless steel	C001032

Tightening torque of the fixation screws: 20 Nm.

