

APL Piston accumulators



► Technical description

APL accumulators are designed with a high mechanical resistance forged steel body.

The fluid-gas separating piston is equipped with seals adapted to:

- the fluids to convey,
- the operating temperature,

The APL accumulators can be fitted with a charging screw or charging valve, and are a modern solution for the needs of hydraulic circuits.

► Advantages

LEDUC APL piston accumulators, are designed:

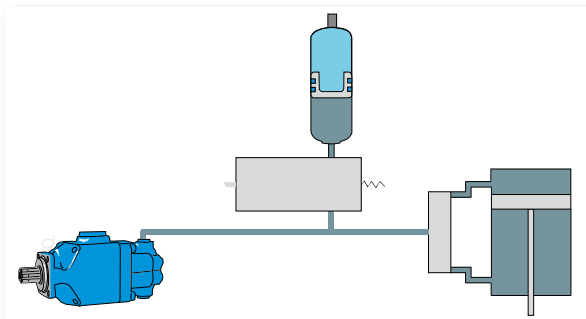
- to withstand very high volumetric ratios,
- to ensure total and rapid discharge of fluid,
- for assembly in any position,
- to guarantee minimal nitrogen loss overtime,
- for easy adaptation for use with different fluids and temperatures.

► Operating fluids

- Mineral-based hydraulic fluids.
- Non-standard and/or corrosive fluids: please consult our Customer Service Department.

► Examples of applications

Energy storage



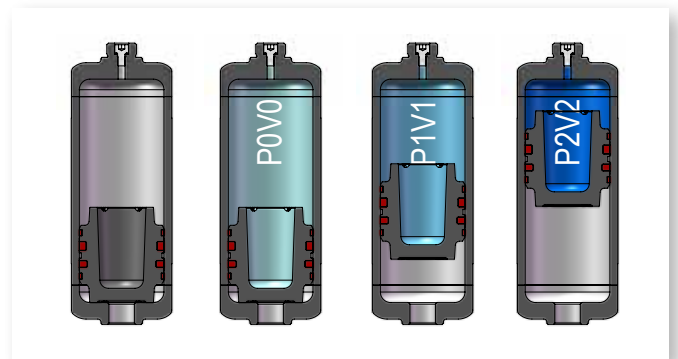
APL 250 bar

Maximum pressure: 250 bar

Extreme operating temperature:

- Standard version: - 20°C to + 80°C
- For other temperatures, please consult us.

► Movement of the piston



► Filling gas

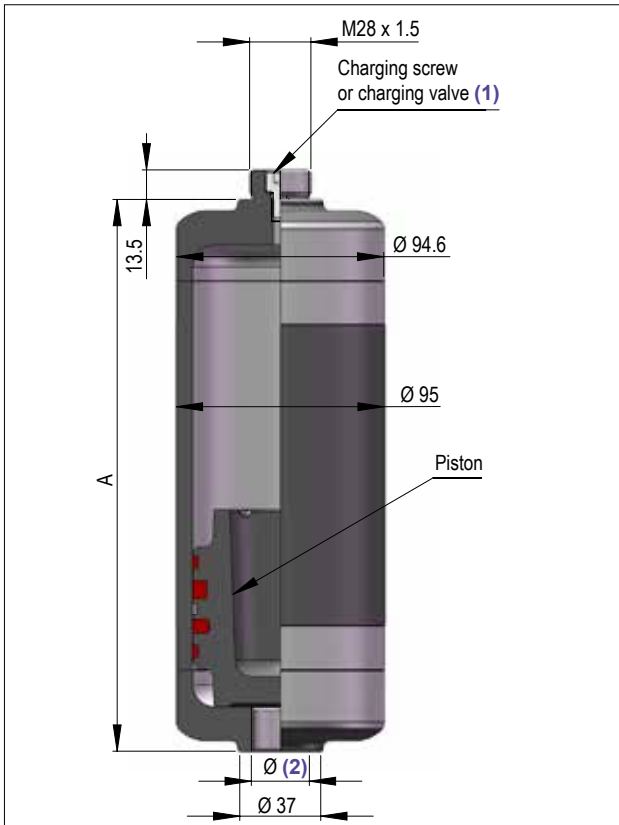
Nitrogen only.

► Charging

Two versions available:

- with charging screw,
- with charging valve.

APL Characteristics and dimensions



(1) See order code system code **06** (next page)

(2) Hydraulic connections - see order code system code **05** (next page)

CHARACTERISTICS AND DIMENSIONS

	Volume (L)	Max. pressure (bar)	Weight (kg)	Length A (mm)
APL	0.5	250	6.2	202.3
	0.75		7	252.1
	1		7.9	301.8
	1.5		9.5	401.3
	2		11.1	500.8
	2.5		12.8	600.2
	3		14.4	699.7
	3.5		16	799.2
	4		17.6	898.6

APL Order code system

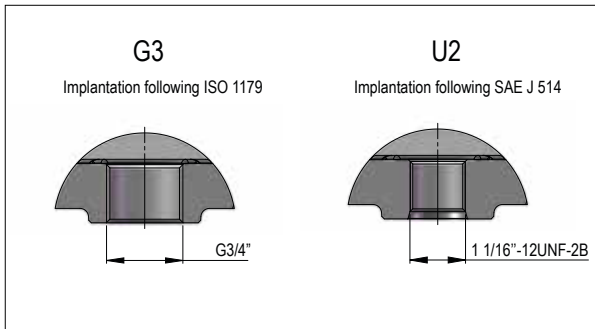
APL	..	D	08	..		.	N	.
01	02	03	04	05	06	07	08	09

To obtain the code of your piston accumulator APL, complete the different parameters from 01 to 09 in the table on the left according to the options you require (see table below).

Make your choice as a function of the possible combinations, using the columns below, and use the code in the far right-hand column.

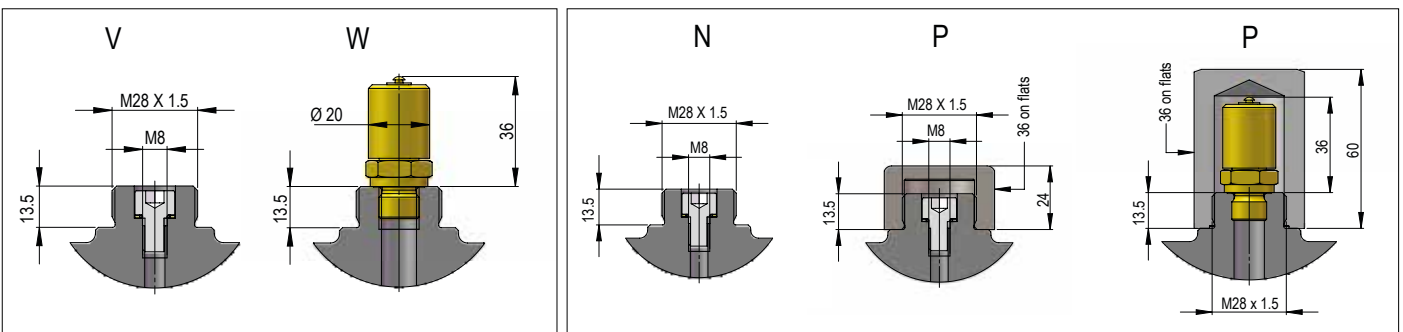
Accumulator type												
01	APL											APL
Volume (L)												
02		0.5	0.75	1	1.5	2	2.5	3	3.5	4		
Type of seal												
03	Double sealing	•	•	•	•	•	•	•	•	•	•	D
Diameter of the piston												
04	Ø 80 mm	•	•	•	•	•	•	•	•	•	•	08
Hydraulic connection												
05	G 3/4"	•	•	•	•	•	•	•	•	•	•	G3
	1 1/16" - 12 UN	•	•	•	•	•	•	•	•	•	•	U2
Gas side connection												
06	Screw M28 x 1.5	•	•	•	•	•	•	•	•	•	•	V
	P1620	•	•	•	•	•	•	•	•	•	•	W
Gas side options												
07	Without protection (P1620, SCHRADER) Plastic plug (Screw M28 x1.5)	•	•	•	•	•	•	•	•	•	•	N
	With metallic plug	•	•	•	•	•	•	•	•	•	•	P
Hydraulic options												
08	Without protection	•	•	•	•	•	•	•	•	•	•	N
Charging pressure												
09	Specify the charging pressure (in bar)											

► Hydraulic connections - Code 05



► Gas side connections - Code 06

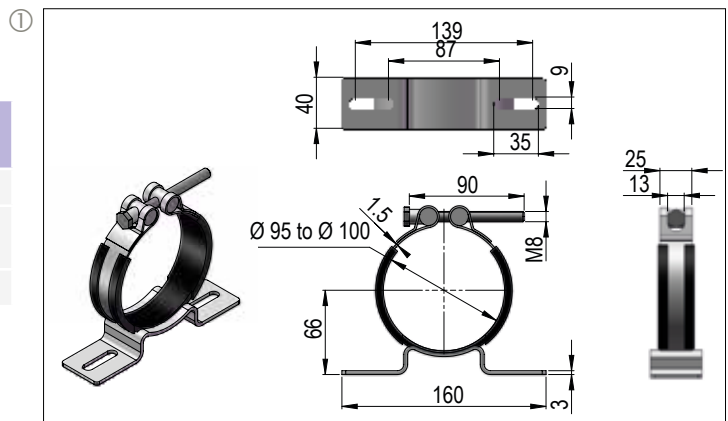
► Gas side options - Code 07



ACCESSORIES

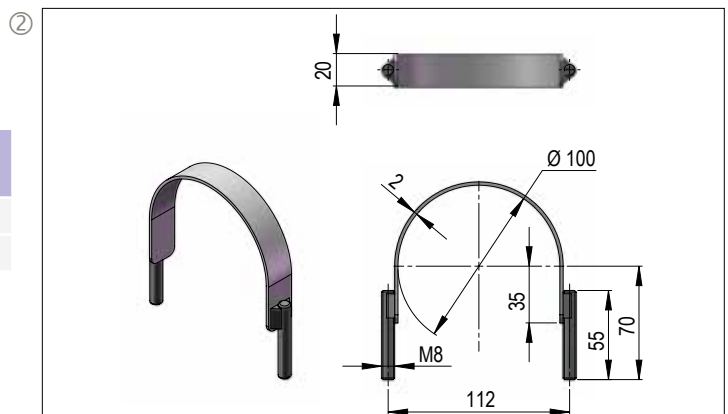
► Adjustable clamps ①

Volume (L)	Characteristics	LEDUC code
0.5 - 0.75 - 1 - 1.5 2 - 2.5 - 3 - 3.5 - 4	Zinc-plated steel	C001026
	Zinc-plated steel quick tightening	C001033
	Stainless steel	C001027



► Fixed clamps ②

Volume (L)	Characteristics	LEDUC code
0.5 - 0.75 - 1 - 1.5 2 - 2.5 - 3 - 3.5 - 4	Zinc-plated steel	C001029
	Stainless steel	C001030



Tightening torque of the fixation screws: 20 N.m.