

Diaphragm accumulator type AC

Diaphragm accumulators are a type of hydraulic accumulator. A diaphragm separates the compressible gas cushion from the hydraulic fluid.

The diaphragm accumulator type AC is used as a source of pressurized oil. It supports or increases the pump delivery flow or stores pressure energy, e.g. for an accumulator charge circuit.

It is used in clamping hydraulics to compensate for volume changes in the event of temperature fluctuations, to cover any leakage losses or for oscillation damping.

With the aid of different fittings the hydraulic accumulator type AC can be integrated into a hydraulic system. Different installation orientations and installation positions are possible.

Features and benefits:

- Compact design
- Option of integration into the HAWE modular system
- Operating pressures up to 500 bar

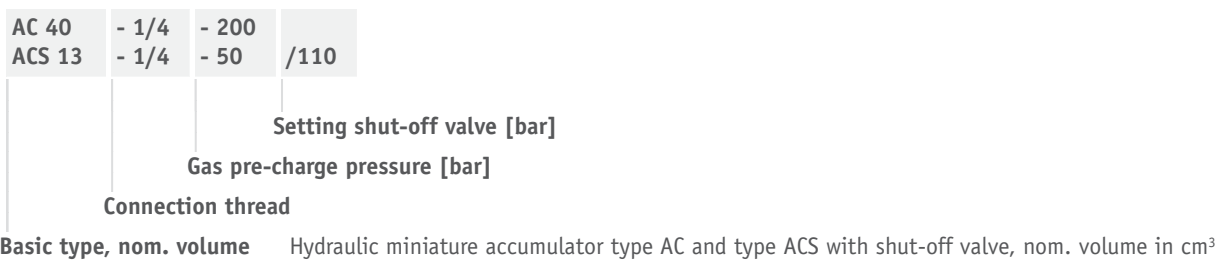
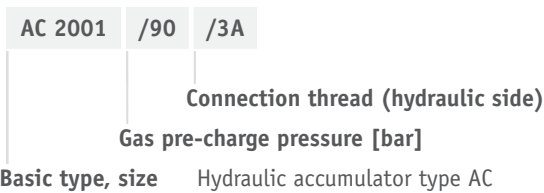
Intended applications:

- Clamping systems
- Jigs
- Accumulator charging systems

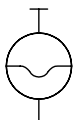


Nomenclature:	Hydro-pneumatic accumulator
Design:	Screw-in version
p_{max}:	500 bar
V_{max}:	3.5 dm ³

Design and order coding example

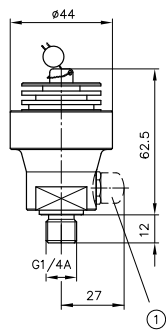


Function



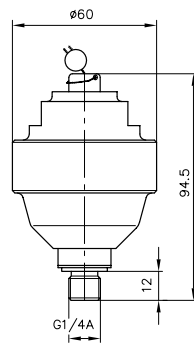
General parameters and dimensions

AC(S) 13 - 1/4

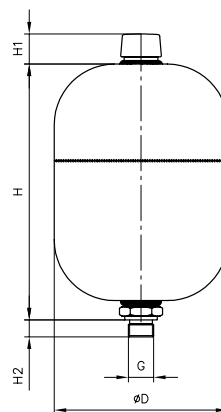


1 Shut-off valve

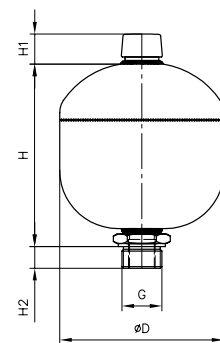
AC 40 - 1/4



AC 0725, AC 202,
AC 322, AC 1414



AC 603, AC 1002,
AC 2002, AC 2825



	V ₀ [dm ³]	p _{max} [bar]	Max. gas filling pressure p ₀ [bar]	Ports	Dimensions [mm]				m [kg]
					H	H1	H2	D	
Hydraulic miniature accumulator									
AC 13-1/4	0.013	500	250	G 1/4 A	see illustration				0.3
ACS 13-1/4	0.013	500	250	G 1/4 A	see illustration				0.3
AC 40-1/4	0.040	400	250	G 1/4 A	see illustration				0.65
Hydraulic accumulator									
AC 0725/1A	0.075	250	130	G 1/4 A	81	26.5	12	64	0.6
AC 202/2A	0.16	250	130	G 3/8 A	102	26.5	-	74	0.8
AC 322/2A	0.32	210	130	G 3/8 A	101.5	25	12	92.5	1.4
AC 603/3	0.6	330	130	G 1/2	149	23	-	115	3.3
AC 1002/22	1.0	210	130	M 22 x 1,5	151	25	18	136	3.5
AC 1414/2A	1.4	140	130	G 3/8 A	162	25	18	147	4.2
AC 2002/4	1.95	250	130	G 3/4	229	25	-	155	7.5
AC 2825/3	2.8	250	130	G 1/2	246	26.5	18	167	8.2

Associated technical data sheets:

- [Miniature hydraulic accumulators, type AC: D 7571](#)
- [Diaphragm accumulator type AC: D 7969](#)

Hydraulic accessories:

- [Fitting type X 84: D 7077](#)

Similar products:

- [Piston type accumulators, type HPS: D 7969 HPS](#)