

AF-CE - DL-CE series *from 500 to 5000 litres*



The DL series replaceable bladder accumulators provide a response to the problems of installation in large capacity systems that up until today required either the use of standard accumulators without bladder or the installation of a series of small-sized tanks.

Installing DL series tanks considerably cuts down both installation and maintenance costs.

The DL series come in models with a 750 to 5000 litres capacity thanks to a truly exclusive bladder design.

The DL series bladders are virtually indestructible since they were built to operate without stretching, even in high-pressure conditions or air cushion leakage.

Supplied in 10 bar certified CE versions and special ASME versions.

Additionally, tailored-made configurations are also available for high-pressure systems (up to 16 bar) and horizontal versions are available upon request.

Models from 200 through 2000 litres with top bulkhead fitting.

Models 3000 and 5000 litres with upper flange.

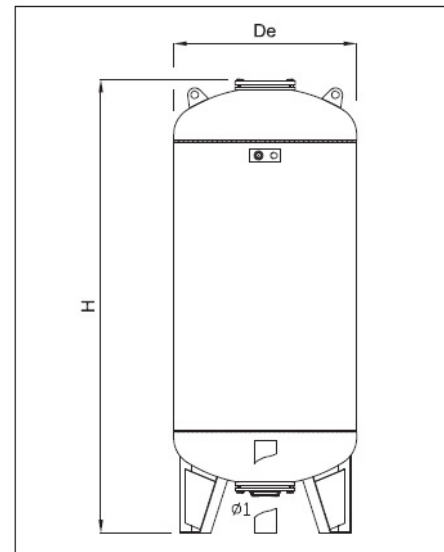


Characteristics:

- Sturdy construction in prime quality, long life steel.
- Complete separation between water and air;
- No contact between water and the inner surface of the tank;
- Non toxic replaceable bladder for alimentary use exclusively designed and manufactured by Elbi.

The dimensions of the DL series bladders reproduce the pitch volume of the tank, thus, allowing the bladder to operate without stretching and making it virtually indestructible.

- Working temperatures: $-10^{\circ} \div +50^{\circ}\text{C}$.
- In compliance with essential safety requirements of European directive 97/23/EC.
- CE marking.
- Precharge pressure: 2,5 bar.



Model	Capacity litres	Max. working pressure (bar)		De mm	H mm	ø 1
AFV 500	500	-	16	650	1870	1" 1/4 M
DL 750	750	10	16	800	1960	2" M
DL 1000	1000	10	16	800	2340	2" M
DL 2000	2000	10	16	1100	2750	G 3"
DL 3000	3000	10	16	1250	3100	G 3"
DL 5000	5000	10	-	1550	3420	G 3"

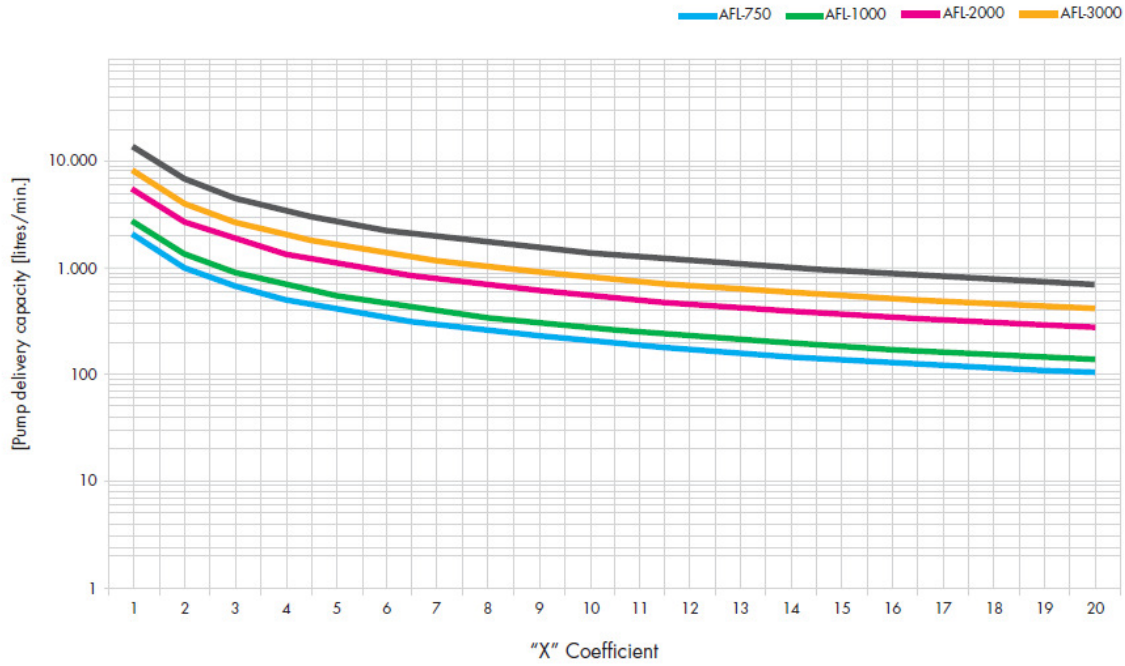
1 MPa = 10 bar

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Bladder accumulator selection chart



To make sizing easier, a chart has been drawn up to select the most appropriate accumulator according to both working pressure and delivery criteria. Note that the chart is based on the following hypothesis: standard precharge and 15 pump starts per hour (see p.19 to identify the "X" coefficient).

Pump max. deliv. Capac. [litres/min.]	Δp operating pressures											
	1,5 ÷ 3,0			2,0 ÷ 3,5			2,5 ÷ 4,0			2,0 ÷ 4,0		
	Number of pump starts per hour											
	15	8	5	15	8	5	15	8	5	15	8	5
75	200	300	500	250	500	750	300	750	1000	250	500	750
95	200	500	750	300	750	1000	500	1000	2x750	300	500	1000
115	250	500	750	500	750	1000	500	1000	2x750	300	750	1000
150	300	750	1000	500	1000	2x750	750	2x750	2000	500	1000	2x750
200	500	1000	2x750	750	2x750	2000	1000	2000	3000	750	2x750	2000
300	750	2x750	2000	1000	2000	3000	2x750	3000	2x2000	1000	2x750	3000
500	2x750	2000	3000	2000	3000	5000	3000	5000	5000+3000	2x750	3000	2x2000
800	2000	3000	5000	3000	5000	4x2000	2x2000	5000+3000	2x5000	2000	2x2000	5000+2000
1000	2000	2000	2x3000	2x2000	2x3000	2x5000	5000	2x5000	3x5000	3000	5000	5000+3000

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