



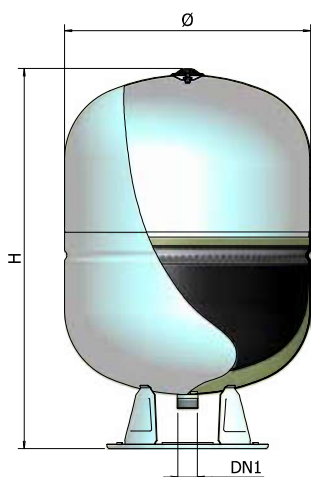
AC-2 / D-CE

MULTI-FUNCTIONAL SANITARY TANKS WITH FIXED BLADDER

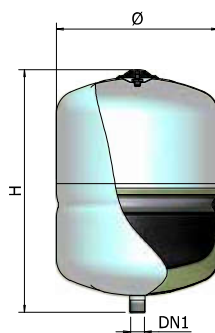
(2 - 500 LITRES)



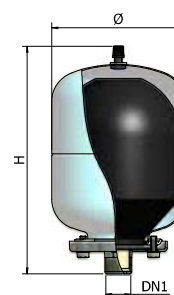
DV 50-500



D5 - 35



AC - 2



CE certified product



For drinking water



For sanitary hot water



For heating systems



For air conditioning systems



For pressurisation systems



Water hammer arrestor



Top-Pro® internal protection
(NO AC-2)

Characteristics:

- Min./max. working temperature: -10° / +99°C
- Equipped with a fixed alimentary bladder in butyl (**model AC-2 with replaceable bladder**) that ensures permanent separation of the air cushion from the water;
- Internal protection of the water connection in Nylon 66;
- Long lasting epoxy powder paint, white;

Reference standard:

- Declaration in compliance with the essential requirements of 2014/68/UE Directive.
(The 2 and 5 litre models are exempt from CE marking).

Fixed bladder multifunctional tanks

Multifunctional sanitary vessels with fixed bladder are designed to be fitted both into sanitary systems as expansion tanks, suitable to absorb the water expansion volume generated by a changing temperature, as well as pressure tanks for cold water sanitary systems.

Both applications are possible thanks to the exclusive Top-Pro® anti-corrosion treatment which ensures the protection against corrosion of the inner surface of the tank and the fitness of all parts in contact with water.

Installing a D series sanitary vessel considerably cuts down operating costs, while suppressing the discharge function of the safety valve.

In your Domestic Hot Water system install Elbi D-DV expansion tanks in the cold water supply pipe; do not install Elbi D-DV expansion tanks in the hot water draw-off pipe.

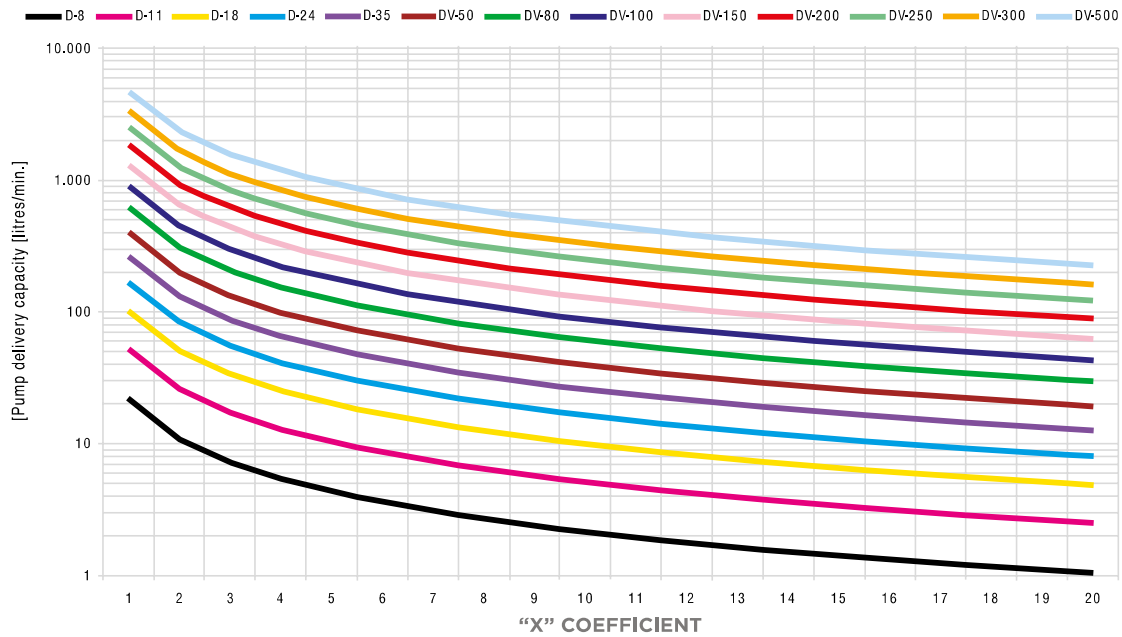
WARRANTY: 3 YEARS

DIMENSIONS

MODEL	CODE		Ppre	Pmax				DN1		NOTES
		LITRES	bar	bar	max	mm	mm		mm	
AC-2 *	A012J07	2	2,5	8	+99°C	130	230	3/4"	150 x 150 x 240	
D 5 *	A202L11	5	3	10	+99°C	205	215	3/4"	210 x 210 x 250	
D 8 CE	A202L16	8	3	10	+99°C	205	280	3/4"	210 x 210 x 320	
D 11 CE	A202L19	11	3	10	+99°C	270	300	3/4"	280 x 280 x 310	
D 18 CE	A202L24	18	3	10	+99°C	270	410	3/4"	280 x 280 x 450	
D 24 CE	A202L27	24	3	10	+99°C	320	330	1"	330 x 330 x 375	
D 35 CE	A202L31	35	3	10	+99°C	400	395	1"	410 x 410 x 410	
DV 50 CE	A212L34	50	3	10	+99°C	400	585	1"	410 x 410 x 610	
DV 80 CE	A212L37	80	3	10	+99°C	400	820	1"	410 x 410 x 860	
DV 100 CE	A212L38	100	3	10	+99°C	500	735	1 1/4"	510 x 510 x 830	
DV 150 CE	A212L43	150	3	10	+99°C	500	935	1 1/4"	510 x 510 x 1040	
DV 200 CE	A212L47	200	3	10	+99°C	600	1020	1 1/4"	610 x 610 x 1110	
DV 300 CE	A212L51	300	3	10	+99°C	650	1210	1 1/4"	660 x 660 x 1290	
DV 500 CE	A212L55	500	3	10	+99°C	775	1350	1 1/4"	785 x 785 x 1440	

* Exempt from CE marking

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. 27 to identify the "X" coefficient).

Pump max delivery capacity [litres/min.]	Δp System working pressure								
	1,5 - 3,0			2,0 - 3,5			2,5 - 4,0		
	Number of pump starts per hour								
	15	8	5	15	8	5	15	8	5
10	D-35	DV-50	DV-50	D-35	DV-50	DV-80	D-35	DV-50	DV-80
20	DV-50	DV-80	DV-100	DV-80	DV-100	DV-150	DV-80	DV-100	DV-150
25	DV-80	DV-100	DV-150	DV-80	DV-150	DV-150	DV-100	DV-150	DV-200
40	DV-100	DV-200	DV-200	DV-150	DV-200	DV-300	DV-150	DV-200	DV-300
45	DV-150	DV-200	DV-300	DV-150	DV-200	DV-300	DV-150	DV-300	DV-300
55	DV-150	DV-300	DV-300	DV-200	DV-300	DV-500	DV-200	DV-300	DV-500
75	DV-200	DV-300	DV-500	DV-300	DV-500	DV-500	DV-300	DV-500	DV-500
95	DV-300	DV-500	DV-500	DV-300	DV-500	2XDV-300	DV-500	DV-500	2XDV-500
115	DV-300	DV-500	2XDV-300	DV-300	2XDV-300	2XDV-500	DV-500	2XDV-300	2XDV-500



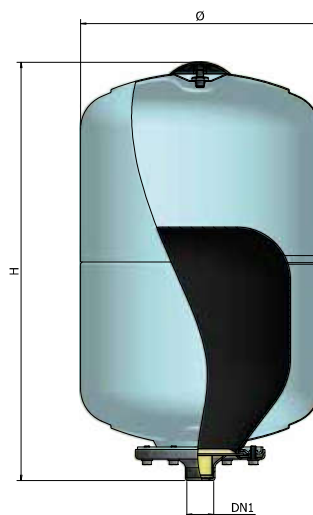
DE-CE

MULTIFUNCTIONAL TANKS WITH REPLACEABLE BUTYL BLADDER

(8 - 24 LITRES)



DE - CE 8-24



CE certified product



For drinking water



For sanitary hot water



For heating systems



For air conditioning systems



For pressurisation systems



Water hammer arrestor

Characteristics:

- Min./max. working temperature: -10° / +99°C
- Equipped with replaceable alimentary bladder in butyl
- Long lasting epoxy powder paint, white.

Reference standard:

- Declaration in compliance with the essential requirements of 2014/68/UE Directive.

Multifunctional tanks with replaceable butyl bladder

Multifunctional sanitary vessels with replaceable bladder are designed to be fitted both into sanitary systems as expansion tanks, suitable to absorb the water expansion volume generated by a changing temperature, as well as autoclaves for small residential installations, garden irrigation systems and all other applications where flow rates are requested, as well as pressure tanks for heating installations. The installation of a DE multifunctional tank reduces costs operating system and prevents the need to exhaust by the valve safety. Installing a DE series sanitary vessel considerably cuts down operating costs, while suppressing the discharge function of the safety valve.

In your Domestic Hot Water system install Elbi DE expansion tanks in the cold water supply pipe; do not install Elbi DE expansion tanks in the hot water draw-off pipe.

WARRANTY: 2 YEARS

DIMENSIONS

MODEL	CODE		Ppre	Pmax				DN1		NOTES
		LITRES	bar	bar	max	mm	mm		mm	
DE-8	A2B2J16	8	3	8	+99°C	205	315	3/4"	210 x 210 x 320	
DE-18	A2B2J24	18	3	8	+99°C	270	430	1"	280 x 280 x 450	
DE-24	A2B2J27	24	3	8	+99°C	270	470	1"	280 x 280 x 470	

CHOICE OF THE EXPANSION TANK

The table simplifies the choice of the ELBI expansion tank to be installed in hot water systems. The selection of the tank can be effectuated starting from the system's total capacity or from the plant's power, taking into consideration an average content of 12 litres per 1000 Kcal/h of power and a plant's maximum working pressure of 3 bars

MODELO	PRE-CHARGE PRESSURE	PLANT HEIGHT	TANK ACCEPTABLE VOLUME	TANK ABSORPTION CAPACITY	TOTAL WATER CONTENT IN THE PLANT	HEAT GENERATOR POWER	
	[BAR]	[m]	[LITRES]	[%]	[LITRES]	kcal/h	kW
DE-8	0,5	5	1,3	62	143	11.900	13,84
	1	10	4	50	114	2.400	11,4
DE-18	0,5	5	11,3	63	323	26.900	31,3
	1	10	9	50	257	24.100	28,3
	1,5	15	6,7	37	191	15.900	18,6
DE-24	0,5	5	15,5	65	443	36.900	43
	1	10	12	50	343	28.600	33,26
	1,5	15	9,3	39	266	22.200	28,82

- How to choose a water tank

Pump max delivery capacity [litres/min.]	Δp System working pressure											
	1,5 - 3,0			2,0 - 3,5			2,5 - 4,0			2,5 - 4,0		
	Number of pump starts per hour											
	15	8	5	15	8	5	15	8	5	15	8	5
2	5	8	18	8	18	24	8	18	35	5	8	18
8	18	35	50	24	50	80	80	35	100	24	50	80
10	24	50	60	35	60	100	100	50	150	35	50	100