

This Easy Sizer module is used to calculate the size of a booster.

There are two methods of use.

Method a)

Choice of the booster that guarantees a set air flow rate at the desired pressure, given the input pressure.

p in	p in [bar]	minimum 2 bar, maximum 10 bar	p in: input pressure to booster. Minimum 2 bar, maximum 10 bar
p out	p out [bar]	minimum = pin, maximum = 2 x pin	p out: output pressure from booster. Minimum 3 bar, maximum the double of the input pressure
Q	Q – required flow rate [Nl/min]		The flow rate required

Metodologia b)

Calculation of the filling time. Given a tank and a specific pressure multiplier, a calculation is made of the time it takes for the tank to switch from the initial pressure (which can also be equal to zero) to the desired final pressure.

	Booster code		code of the booster chosen
V	Volume to fill		V: volume of the tank to be filled
p in	input p	Minimum 2, maximum 10 bar	pin: input pressure to booster
p out ini.	initial output p	0 default, min. 0 max. =2 x pin	initial out p: pressure in the tank at the start of filling. Can also be equal to zero.
p out final.	final output p	1 default. ; P out final ≥ p out ini; Min = pin; maximum = 2 x p in	final out p out: the pressure you wish to achieve in the tank. Can be maximum double the input pressure.