

1.4 HYDRAULIC INSTALLATIONS SILENCE


The NL valve group on OMARLIFT pump unit is equipped with a patented silencer kit.

OMARLIFT pump units are remarkably noiseless:

under average working conditions, i.e. with an oil temperature of about 30/40° C, pressure 25/30 bar and no air in the oil, the noise produced by the pump unit is included in the below limits:

PUMP UNIT TYPE	50 Hz	60 Hz
▪ Up to 150 l/min :	57 ÷ 59 dB(A)	62 dB(A)
▪ From 180 up to 300 l/min :	59 ÷ 61 dB(A)	64 dB(A)
▪ From 360 to 600 l/min :	60 ÷ 64 dB(A)	67 dB(A)
▪ HOMELIFT (external motor)	62 dB(A)	65 dB(A)

These values refer to the upward travel phase at high speed.

 Noise values means at one meter of distance and at the same height of the valve. The values are referred to the test in the test room OMARLIFT.

To have an installation as silent as possible it's necessary to:

- Use a piece of flexible hose (5/6 metres at least) to connect the pump unit to the cylinder.
- By means of some thick rubber, insulate the connecting pipes from the collars used to fix the pipes to the walls.
- Use some thick rubber to insulate the cylinder head from its fixing collar and the bottom from its support.
- Fill in the tank till the maximum level allowed.
- Make sure there is not too much air in the oil.
If necessary purge the air.
- Use oil with high viscosity index. The high oil temperature reduces its viscosity and increases the noise. A low oil viscosity doesn't allow to oil the moving parts and this may cause an increase of the noise.