



The pressure will change between 1 and 13.5 Mpa.

The rate of change of the pressure will vary, however, the highest peak is 1 Mpa in 1 second.

There is not extra mass in the system, is a closed chamber.

\*Consider the diaphragm is not absorbing any energy in terms of deformation stress of the diaphragm (this has been proved and improved with a corrugated geometry in the diaphragm), so the pressure P1 pass without any loss to the silicon oil.

**Which ones will be the equations or relations that should govern the transfer of the pressure P1 to the Sensor through the oil, considering the viscosity and properties of the oil (compressibility of 2% in worst conditions). How I can select the oil that will lead to the best transfer of pressure? .**