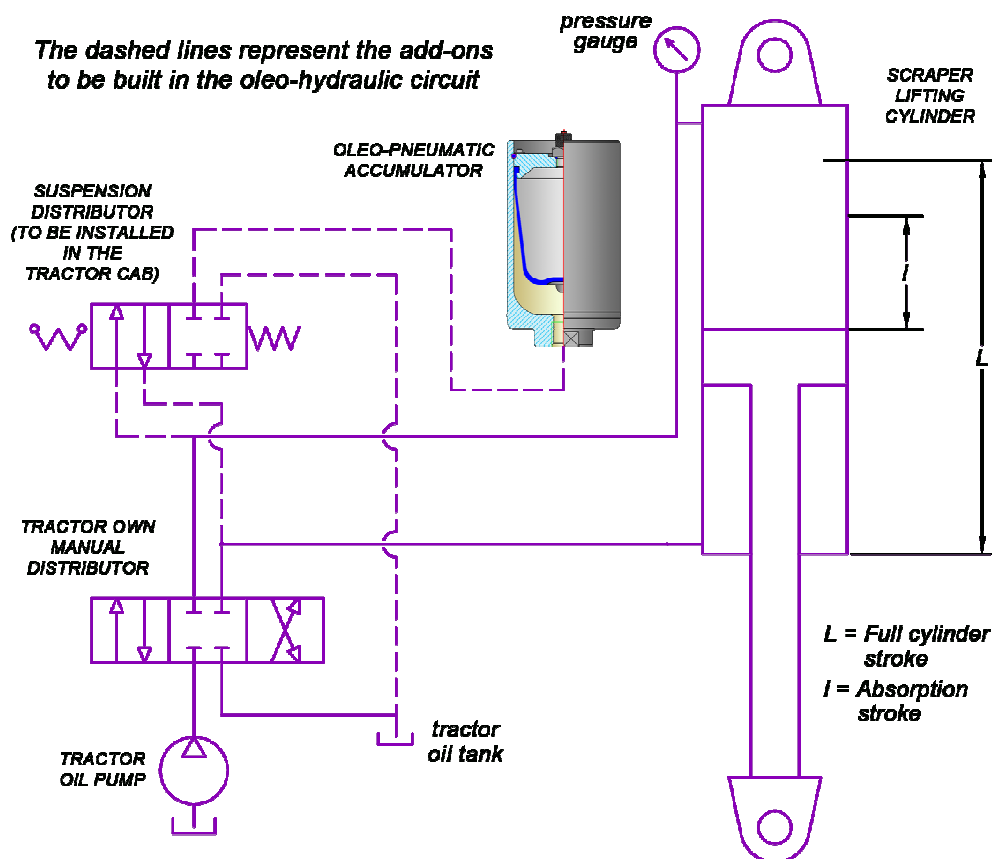




## DIAGRAM OF THE ASSEMBLY OF THE ACCUMULATOR IN THE OLEO-PNEUMATIC SUSPENSION OF SCRAPERS



When the scraper is working, getting full of earth, the accumulator must be disconnected from the circuit, both distributors closed (the suspension distributor turned to the right position).

When the scraper is moving fully loaded, the manual distributor must remain closed and the suspension distributor has to be in the position of the parallel arrows (to the left side).

For calculating the size of the accumulator needed it is necessary to know the following data:

- Diameter of the lifting cylinder piston.
- Diameter of the lifting cylinder piston rod.
- Pressure built (shown by the pressure gauge) inside the cylinder, with the scraper fully loaded, when being lifted by the tractor oleo-hydraulic pump, or else the weight supported by the cylinder

**NOTE:** The diagram shows that, when the accumulator is connected to the circuit, the lower chamber of the cylinder is connected, through the suspension distributor, to the oil tank. This assembly is essential for the correct operation of the accumulator and the proper suspension of the fully loaded scraper when heading for the fill area.

We have assumed that, for raising the scraper, the oil from the tractor pump must be sent to the blind chamber of the cylinder (i.e.: the upper chamber), just as the diagram shows. In this case, the body of the cylinder remains in a fixed position while the piston rod moves and raises and lowers the scraper.