

ABSTRACT OF THE DISCLOSURE

ADD-ON CHAMBER FOR IMPROVED RESPONSE OF GAS PRESSURE REGULATORS

A gas pressure regulator regulates a pressure of a gas system. The gas pressure regulator includes a first chamber, a first diaphragm which separates the first chamber into a first compartment and a second compartment, a second chamber, with a second diaphragm separating the second chamber into a third compartment and a fourth compartment, the fourth compartment being connected to, and in communication with, the first compartment of the first chamber. A movement of the first diaphragm causes a corresponding movement of the second diaphragm, and a change in the volume of the fourth compartment.

Figure 1.