

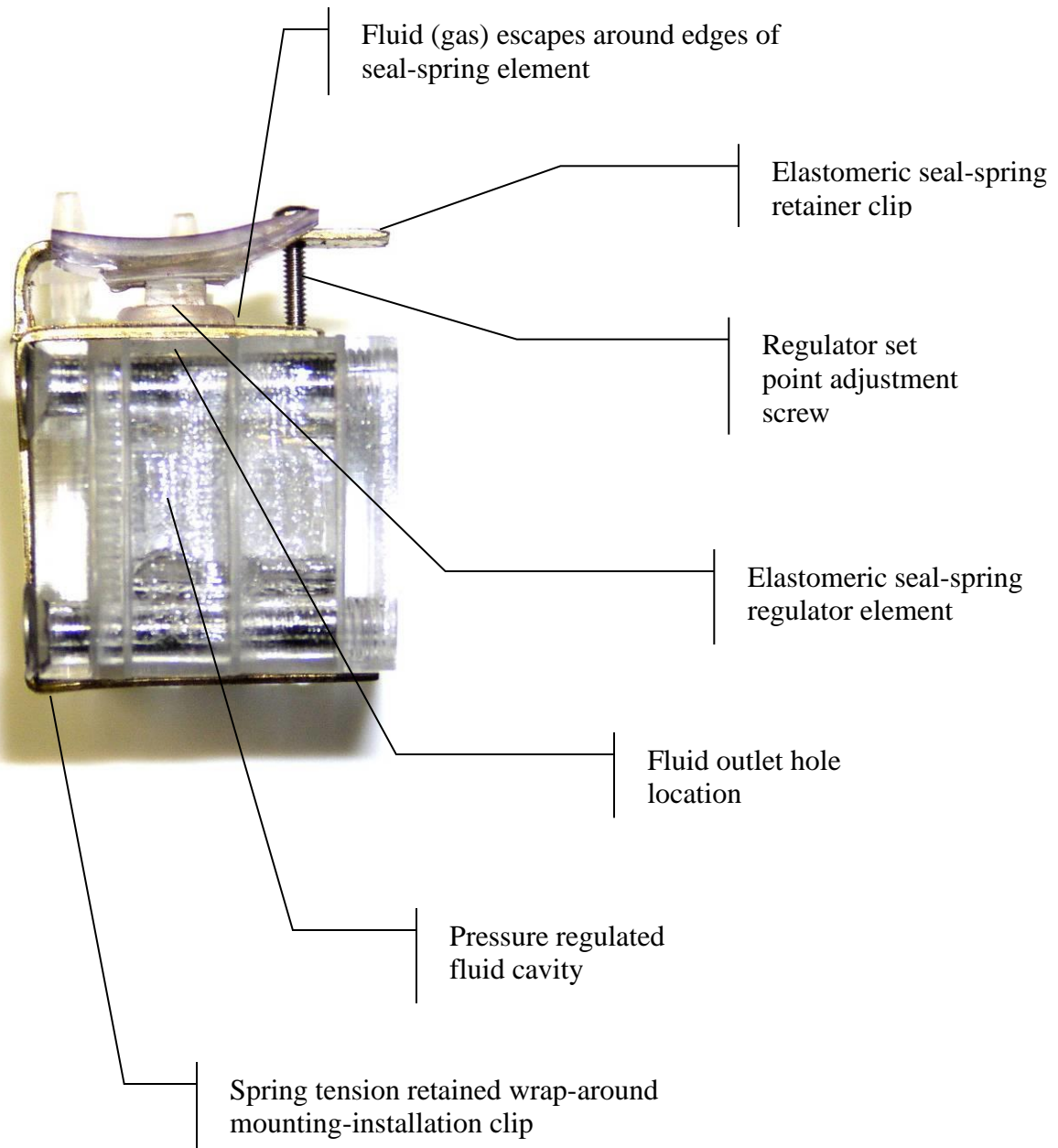
A Cheap, Small, and Simple Adjustable Low Pressure Regulator

Craig E. Nelson - Consultant Engineer

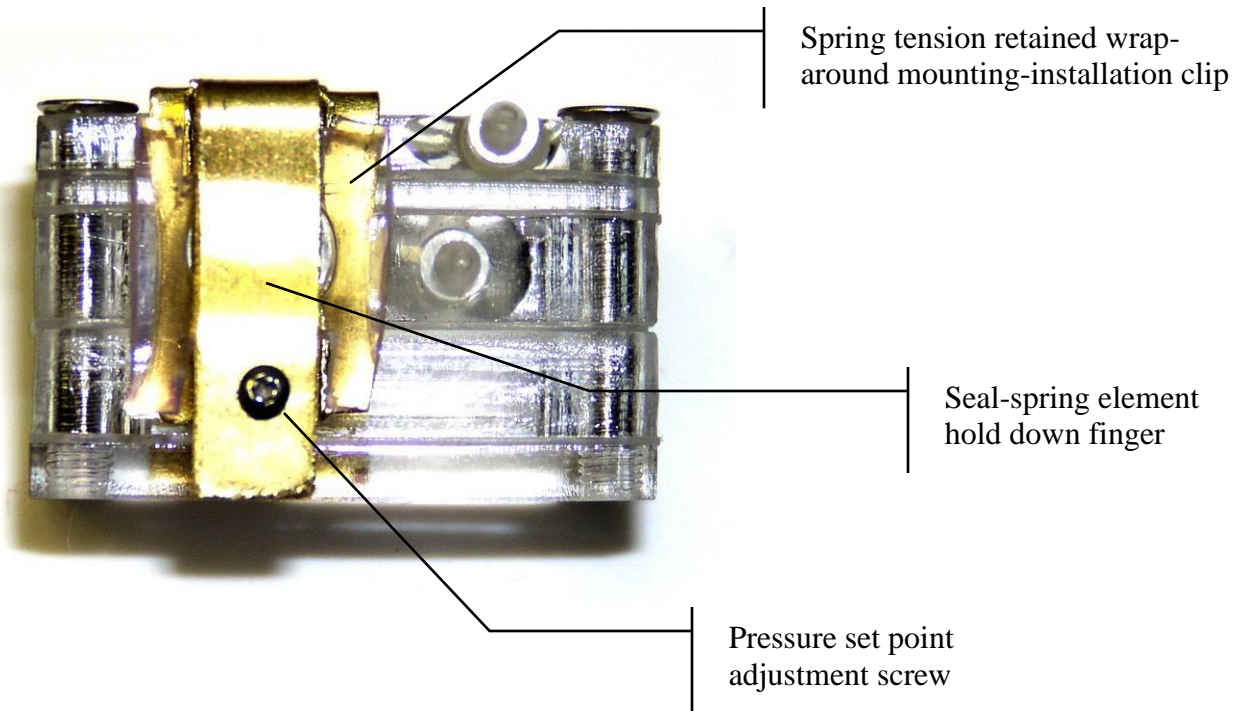
This mini-report shows the various aspects of an adjustable pressure regulator with a variety of desirable features. These include:

1. Cheap and simple
2. Easily fabricated by hand process in the shop
3. Pressure set point is precisely settable down to 0 PSI
4. By means of the integral spring clip, installation on existing fluidic devices is quite easy
5. Installation on a fluidic device requires the drilling of only one small (2-3 mm dia. hole)
6. The concept is easily modifyable and extendable for installation internal to fluidic device chambers
7. The fluid wetted part may be made of chemically inert material

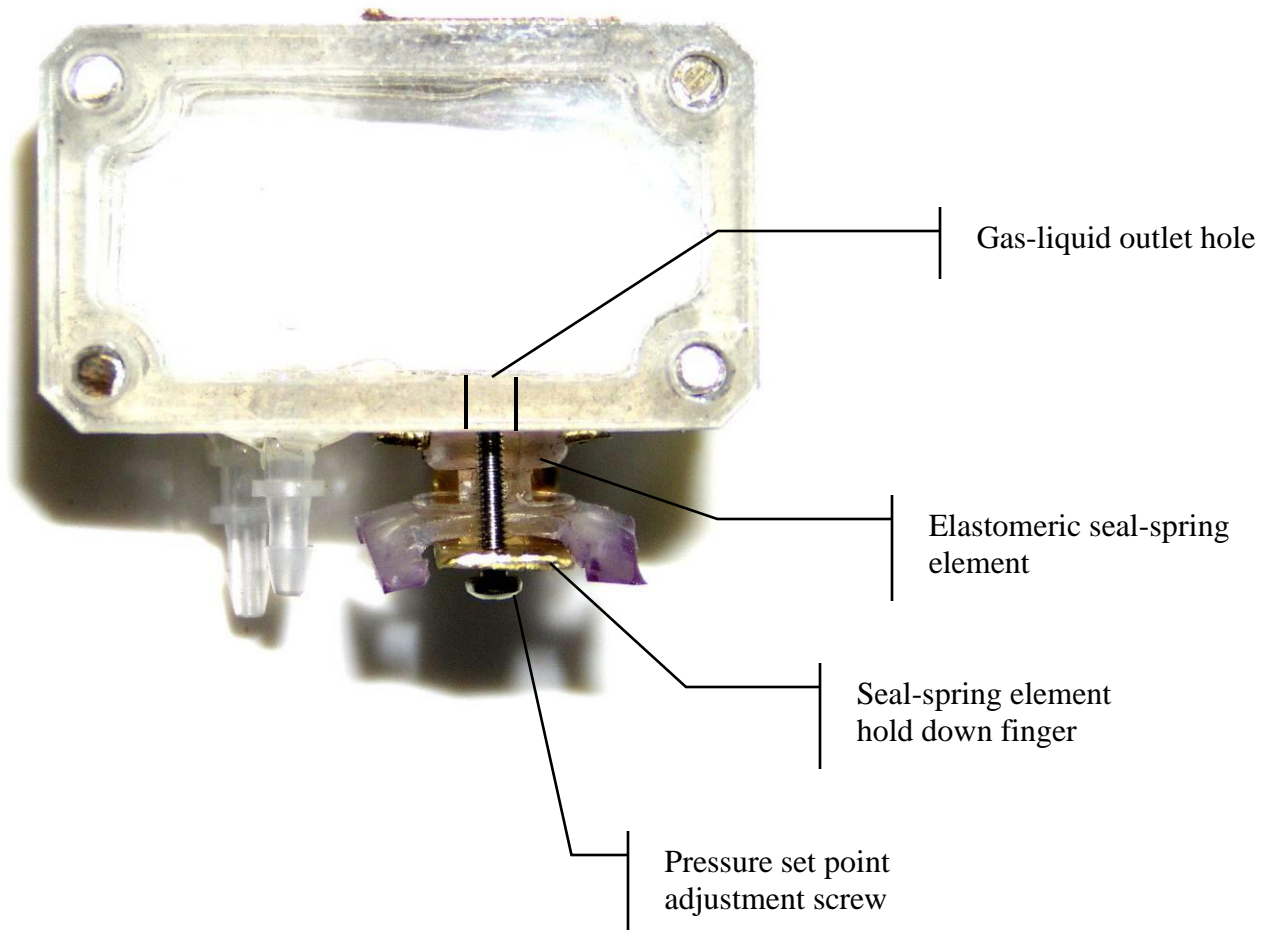
The following photograph shows the key parts and described their function:



Here is a picture showing a top view of the pressure regulator assembly:



Here is a picture showing an end view of the pressure regulator assembly:



Here are a couple more pictures showing the pressure regulator from different angles:

