

EXCELL FEEDERS

Activation Apparatus

The Excell Feeders Polymer Activation Apparatus provides the high energy needed to activate all types of liquid polymers. The apparatus activates the polymer through a patented motor-less activation system. It injects the polymer into the dilution water stream and immediately makes the solution flow through a low pressure, high energy, activation nozzle.

The apparatus operates like a low-pressure homogenizer. The polymer is activated as it passes through the annular nozzle orifice. The pressure drop across the nozzle is only 10 psi. This accelerates the solution to a velocity of about 40 ft./sec. The very high turbulence generated at the orifice activates the polymer. The polymer is exposed to this high activation energy only once, as it passes through the orifice.

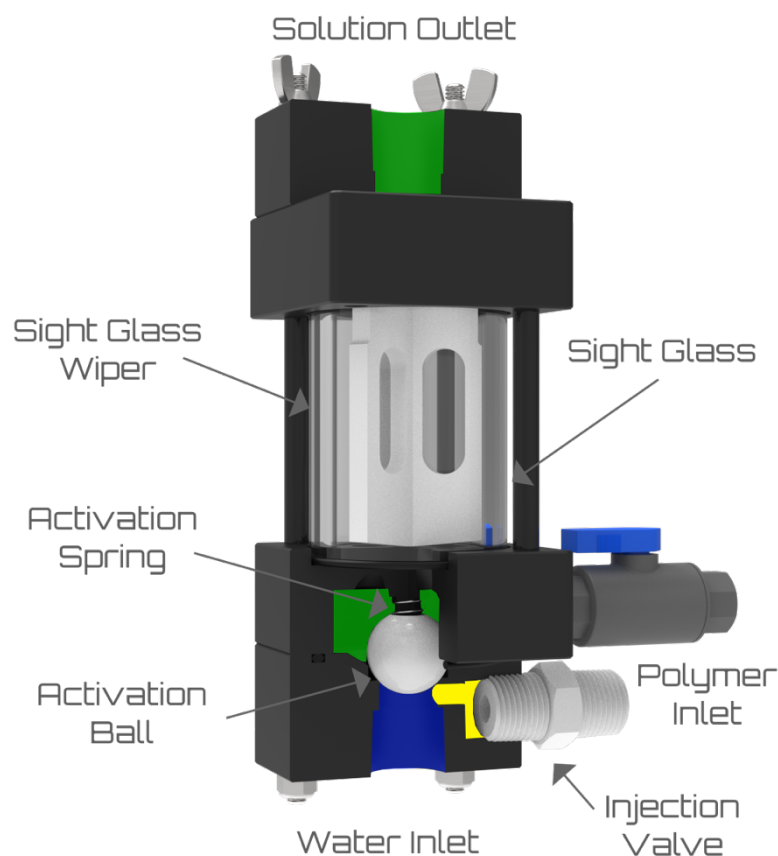
The orifice opening self-compensates for solution flow changes. This assures that the polymer activation energy level remains adequate for the flow range of the feeder.

The activation apparatus components are made of the following thermoplastics: PVC, Teflon and polypropylene. The spring is made of PVDF coated stainless steel. The entire assembly is assembled with stainless steel rods, and Buna-N O-rings. The assembly can be easily disassembled and reassembled for quick repairs.

The injection valve has a PVDF body, a Viton seat and a Hastelloy spring. It is externally mounted for easy access.

Self-Cleaning Sight Tube

The activated polymer solution flows through a self-cleaning sight tube before it exits the feeder. The solution causes the patented cleaning assembly to operate continuously. The sight tube allows the operator to see that the feeder is operating properly.



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