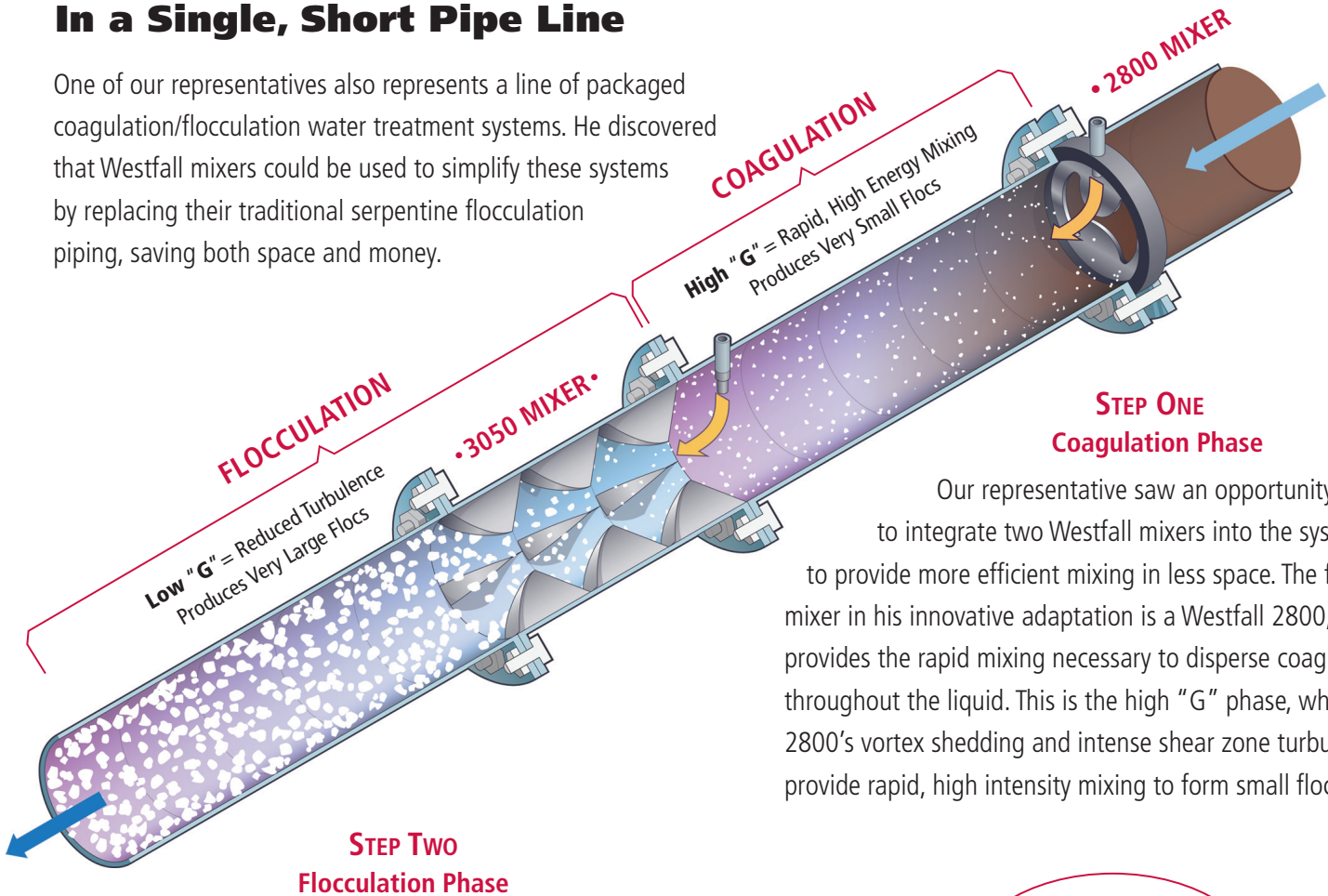


## Coagulation & Flocculation In a Single, Short Pipe Line

One of our representatives also represents a line of packaged coagulation/flocculation water treatment systems. He discovered that Westfall mixers could be used to simplify these systems by replacing their traditional serpentine flocculation piping, saving both space and money.



### STEP ONE Coagulation Phase

Our representative saw an opportunity to integrate two Westfall mixers into the system to provide more efficient mixing in less space. The first mixer in his innovative adaptation is a Westfall 2800, which provides the rapid mixing necessary to disperse coagulant throughout the liquid. This is the high "G" phase, where the 2800's vortex shedding and intense shear zone turbulence provide rapid, high intensity mixing to form small flocs.

### STEP TWO Flocculation Phase

The second, low "G" flocculation phase of the new system is the installation of a Westfall 3050 mixer. The 3050 has a series of three sets of vanes to create vortices and multiple zones of turbulence that intersect to turn flow inside out. This produces relatively gentle mixing, which creates agglomerated particles without the force that could break them up. This promotes the growth of large flocs, which will rapidly settle out for removal and dewatering.

#### Further Reading

Here is a link to a great article about coagulation and flocculation:  
[http://www.waterspecialists.biz/html/about\\_coagulation\\_\\_\\_flocculati.html](http://www.waterspecialists.biz/html/about_coagulation___flocculati.html)  
"About Coagulation and Flocculation", by Dean Schmalter

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