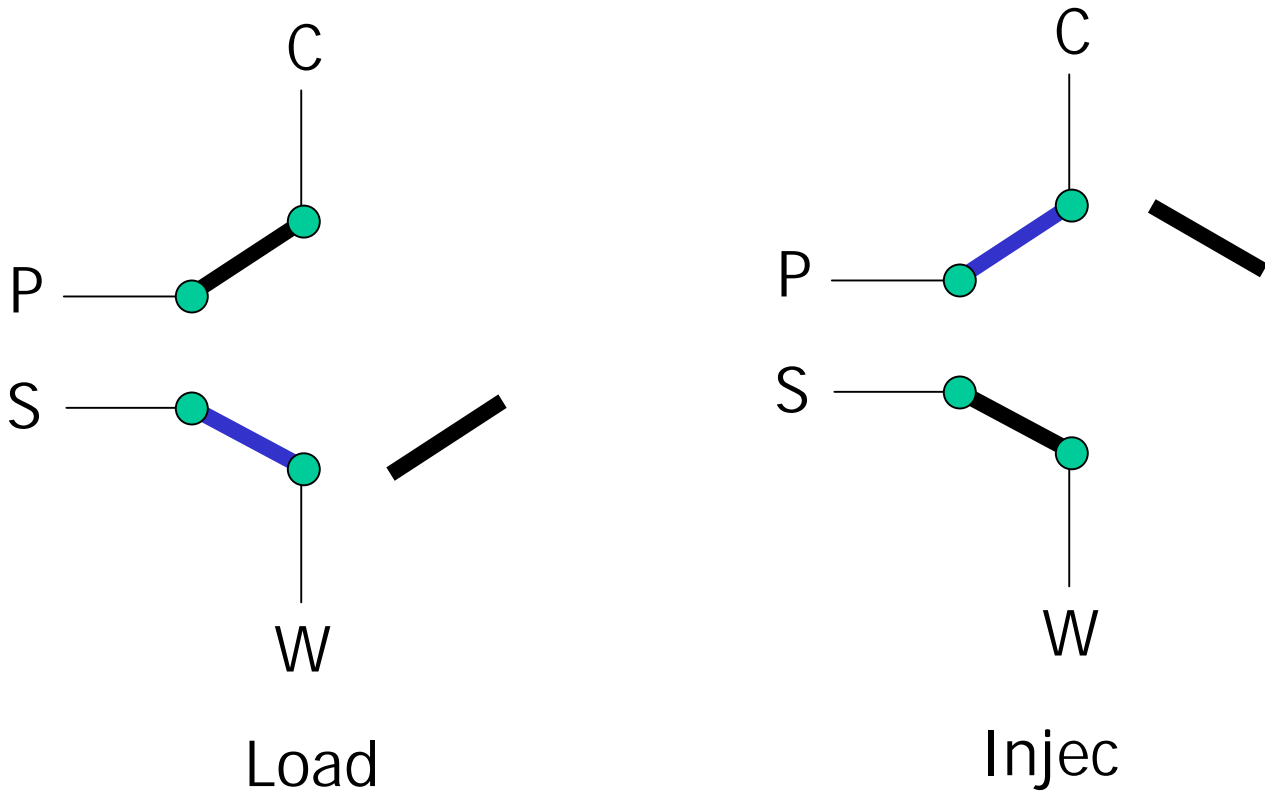


Four port valve with internal sample loop

Introduction:

Below is the valve layout of a four-port valve in its two positions.



The blue line is the internal sample loop. The black lines are simply internal connectors.

In the method, the valve should be loading when the sample pump is on. When the valve is in the inject position, the sample pump should be off and the carrier pump should be on. It is important to get the lines plumbed correctly because if you don't, the sample will be moved into a null position when the valve is switched.