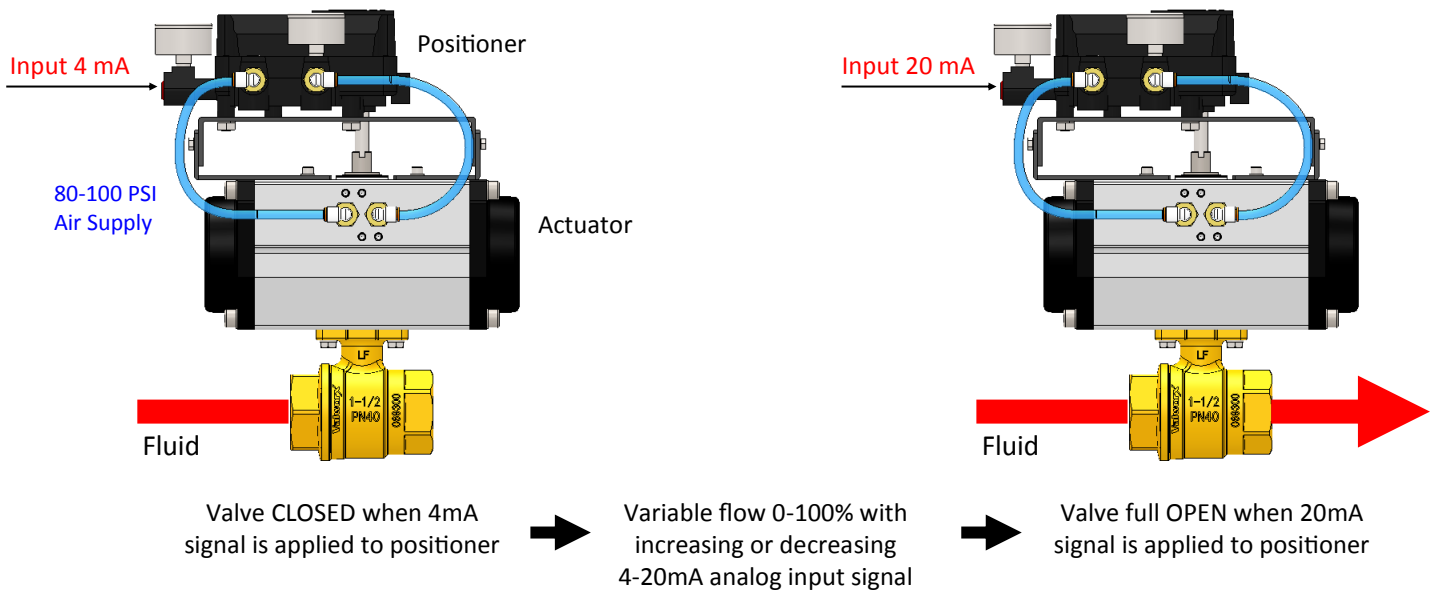


## How Does it Work?

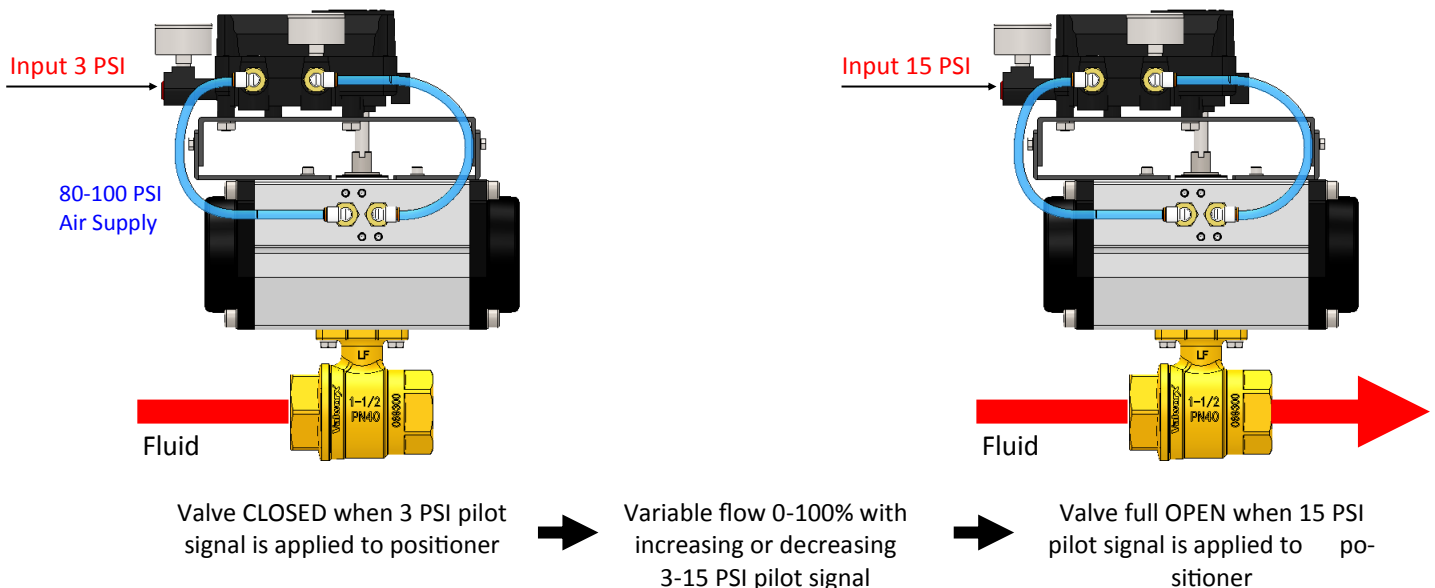
### Air Actuated 2-way Valve With Pneumatic Positioner

This document explains how a Valworx air actuated 2-way valve functions with optional pneumatic positioner installed. Pneumatic positioners are used with quarter-turn spring return or double acting air actuators to accurately position control valves used in throttling applications. These valve positioners convert a 4-20mA or 3-15 PSI input control signal to a proportional pneumatic output. This output is fed to the air actuator which in turn, combined with mechanical position feedback, controls the valve position and flow rate.

### 4-20mA Positioner



### 3-15 PSI Positioner



Notes: Double acting actuators will fail closed with loss of control signal, provided air supply pressure is maintained. Double acting actuators will fail in-place (may drift) with loss of air supply pressure. Standard spring return actuators will fail closed with loss of air supply pressure or control signal (failsafe). Spring return valves can also be setup to operate in reverse mode (4mA or 3 PSI = open) and fail open if required.