

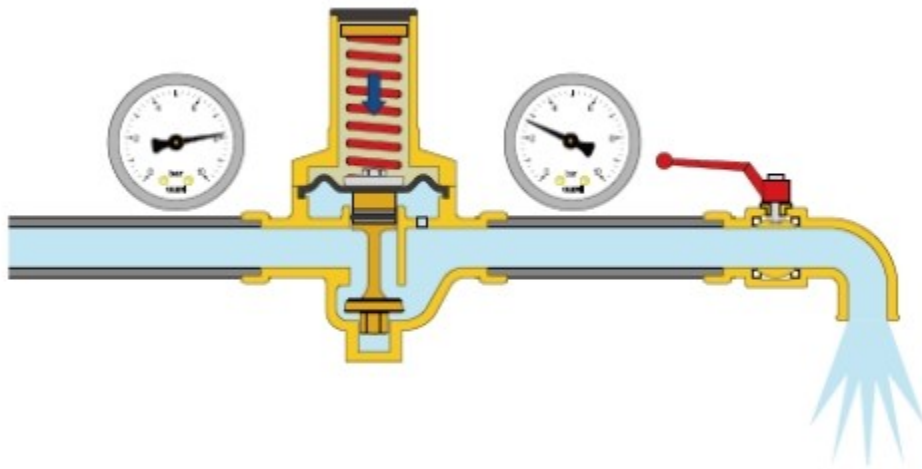
Tower PRV's provide both static and dynamic pressure control—see below

Dynamic control:

Water pressure is reduced whilst water is being drawn from the supply:

Spring tension is set at the time of installation, in order to balance a spring against a diaphragm.

When water is drawn from the system, the pressure behind the diaphragm drops; the spring allows the valve to open, and water flows at a rate (and with a pressure drop because of the resistance through the valve body) which holds the pressure at the set level downstream of the PRV.



Static control:

Water pressure is reduced whilst no water is being drawn from the supply:

Spring tension is set at the time of installation, in order to balance a spring against a diaphragm.

When no water is drawn from the system, the pressure behind the diaphragm increases, overcoming the spring tension, closing the valve and maintaining the reduced pressure downstream of the PRV.

