



AVK DUAL STAGE PRESSURE REDUCING CONTROL VALVE, PN10/16

859/0098-001

Hydraulic pilot operated pressure reducing control valve with dual stage pressure set point

AVK hydraulic pilot operated pressure reducing control valves automatically reduce a high inlet pressure to a lower outlet pressure. The hydraulic AVK pilot, that does not require any power, maintains a constant outlet pressure regardless of changes in flow or inlet pressure.

Using a battery-powered control box, the pilot settings switches between two set points – typically day/night.

The control valves use the energy from the pressurised water to change the valve position, and therefore they do not need an actuator for regulation. This ensures low power consumption.

Time-based pressure management:

Time-based pressure management switches between high and low pressure set point according to a pre-programmed time schedule. Time-based pressure management allows for a more constant pressure within a predefined geographical area far from the valve, because the outlet pressure set point to some extent takes the pressure loss caused by flow changes into account. This method maintains a low pressure at the consumers in the area in periods, and thereby it reduces the average pressure significantly resulting in huge energy and water savings.

Flow-based pressure management:

By using the signal from a flow meter, flow-based pressure management switches between high and low pressure set point when the flow changes between pre-entered high and low flow. Flow-based pressure management allows for a more constant pressure in a predefined geographical area far from the valve, because the outlet pressure set point to some extent takes the pressure loss caused by flow changes into account. This method maintains a lower pressure at the consumers in the area and thereby reduces the average pressure significantly resulting in huge energy and water savings.

Control valve DN50-600:

Design according to EN 1074 – 5, face-to-face dimension according to EN 558 Table 2 Basic Series 1, standard flange drilling to EN1092-2 PN10/16.

Body and bonnet of ductile iron, all non-coated internals made of stainless steel AISI316. WRAS approved materials, GSK approved fusion bonded epoxy coating.



Expect... **AVR**