🚯 FloControl Knows

PICV Installation Explained

Since 2010, FloControl have exclusively supplied the innovative FlowCon threaded and flanged PICV valve ranges in the UK.

In the beginning constant flow systems were still common in British commercial and industrial buildings, using static or proportional balancing values in combination with 3 & 4 port control values. New legislation for the conservation of fuel and power, which was calling for a reduction in CO2 emissions drove the introduction of variable flow systems, which has changed the hydronic system balancing requirements.

The application of PICVs became an integral part of the hydronic system balancing strategy. FloControl has been deeply involved in the UK hydronic system evolution, resulting in extensive knowledge of UK-specific design and applications as well as practical aspects of PICV installation and commissioning of variable flow systems.

Over the years we have been asked and have answered numerous questions how PICVs work in variable flow systems. Today we would like to share 10 of these frequently asked questions and our answers, which we hope you will find useful.

Q1

Can flow be measured through the PICV?

The only way to get accurate flow measurement is to use an independent flow measure device such as metering station. A flow reading can be obtained through the PICV using the kv value and an electronic flow computer. This will not be as accurate as a flow rate measured on a metering station.



What is the purpose of the two pressure/temperature plugs on the PICV?

They are used to measure the differential pressure across the valve to ensure it is in excess of the minimum required for it to operate as a pressure independent control valve.



How is a 2-Port PICV different to a 2-Port control valve?

A PICV combines 3 valve functions in one housing: 1. Automatic balancing, 2. Differential pressure control, 3. Full stroke modulating control, whereas a 2-Port control valve only has <u>1 function</u> (to shut off water flow or to control and regulate flow through a pipe).



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