

Energy Conservation Using High-Performance Valves for Air Conditioning

A pressure-based flow rate measurement function is added to motorized two-way air conditioning valves. Valves are able to suppress unnecessary chilled/hot water flowing to AHUs, helping to save energy by reducing the number of heat source equipment and pumps that are operating.

Your challenges

- We want energy efficiency without sacrificing comfort
- It is hard to correctly adjust the operation of the heat source equipment

Azbil's solutions

By introducing a flow rate measurement control function, which is not found in regular motorized two-way valves for air conditioning, it is possible to properly maintain the flow balance in the piping.

In consequence,

- the volume of chilled/hot water to AHUs can be properly controlled
- the number of operating heat sources and pumps can be controlled

With the above merits, it is possible to boost energy conservation without sacrificing comfort.

■ 概要

