XBALL® Smart Expansion Ball Valve

Bereva

Summary of IoT case

The Bereva Smart Expansion Ball Valve is a replacement expansion valve for HVAC systems for superheat control. The main applications are chillers and air conditioning units with capacities from 30 – 500 kW and machines with inverter driven compressors. The XBall valve is assembled without tools by snapping-on and is configured via Bereva's Syncra App. It is also suitable for retrofitting existing systems and can be used with existing superheat controllers with stepper signal. It allows for elimination of solenoid valves thanks to a supercap that drives the fail to close feature. The XBall valve improves control and performance by optimization of partial loads, avoiding starting jumps and energy savings. It is compatible with CFC, HFC and HFO refrigerants and can be used from -20 to 70°C. It is directly connected to the chiller control unit but can also be controlled via Bluetooth and Apps for Android and iOS. Data can be transferred to the cloud using Bereva Gardian cloud service.

FACTS ABOUT THE IOT CASE

IoT category: smart expansion ball valve for HVAC systems

Heat supply capacity: 30 – 500 kW

Data interface: Bluetooth, can be connected to heat pumps of various manufactureres through different wirings

Transmission protocol for data: n/a

Quality-of-Service: real time

Technology Readiness Level: TRL9

Link to webpage: https://bereva.it/products/

Contact information

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