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Pumps • Valves • Service



BOA-Control: the world's first ultrasound measurement valve





First-class technology takes top priority: innovation at KSB

Discover a worldwide first that truly makes waves: the BOA-Control from KSB. Decades of experience and all-round expertise give KSB the crucial edge needed to develop solutions heralding the arrival of whole new dimensions in advanced technology.

Only available at KSB: the world's first and only balancing and measurement valve featuring ultrasound technology which offers unprecedented possibilities for direct and straightforward flow rate measurement. The valve uses ultrasound waves to record the flow rate via transit time difference measurement. In addition, an integrated temperature sensor precisely records the fluid temperature. The data gathered can either be saved on site using a mobile measuring computer or transferred continuously to a control station via a permanently connected measuring computer.

Sometimes changing a little achieves a lot

With a small change, KSB has opened up new dimensions in measurement technology – and created a solution which addresses the challenges of tomorrow today.

Applications:

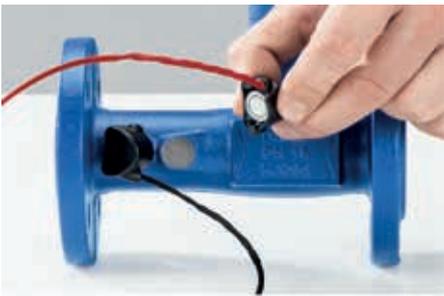
- Hot-water heating systems
- Air-conditioning systems
- Cooling circuits
- Flow rate and fluid temperature measurement by integrated sensors

Mobile or permanent measurement set-up: always the appropriate solution

Two sensors attached to the BOA valve enable ultrasonic sensor measurement. Depending on the application, the sensors can be attached in two different ways:

BOA-Control: mobile measurement set-up

BOA-Control is a balancing valve designed for ultrasound measurement. Rather than being permanently installed, the ultrasound sensors attach to the valve via an innovative magnetic connector. As the sensors can be mounted and removed as required, this design allows mobile measurements to be performed on any number of valves in combination with a BOATRONIC MS measuring computer.



BOA-Control: balancing valve ready to accommodate sensors. The sensors attach to the measurement contacts via an innovative magnetic connector.

BOA-Control IMS: mobile or permanent measurement set-up

BOA-Control IMS represents the ultrasound measurement valve's high-end model featuring permanently mounted sensors. On this model the sensors are glued to the valve and allow not only a mobile but also a permanent measurement set-up. By means of the BOATRONIC MS-420 measuring computer, the measured flow rate and temperature values can be continuously transferred to a control station as 4-20 mA signals. Every valve to be measured must be connected to its own computer.



BOA-Control IMS: balancing valve with glued ultrasonic sensors for mobile and permanent measurement set-up.



BOATRONIC MS: computer for measurements on BOA-Control valves featuring a display and a data storage device (input and output via USB interface).

Your benefits at a glance:

- All-in-one solution: measurement, balancing and shut-off in one valve mean fewer components, lower costs and less space required
- Direct and straightforward measurement using novel ultrasound technology
- Time-saving, zero-leakage measurement; measuring via ultrasound requires no contact with the fluid handled
- Easy-to-use equipment and innovative technology: saves time and labour costs
- Thanks to mobile measurement equipment with an innovative magnetic connector, any number of measurements can be performed with only one pair of sensors
- Increased system reliability via visual error display: the flow direction is displayed automatically



Technology that **makes its mark**

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