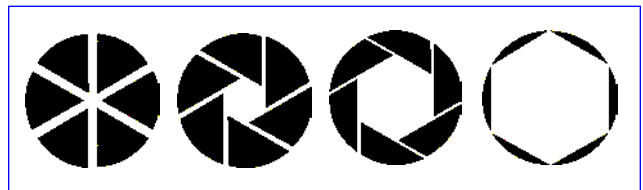


IRIS® Diaphragm Control Valve

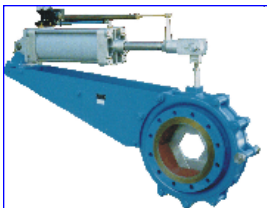


Design Features / Range

Available Sizes: 1" - 24"
Pressure : up to 87 psi higher upon request
Temperature : up to 248°F higher upon request



Designs



IRIS® Valve advantages

- **Energy cost saving and low noise emissions through enhanced design**
Due to the almost free passage and low turbulences in our valve energy costs and noise emissions are reduced to a minimum.
- **Robust Construction**
Designed for continuous operation, particularly suitable for variable duties. Simple installation and commissioning.
- **Non-clogging and self cleaning**
Due to the free, central flow design and automatic self cleaning feature of the segment edges during valve operation. Flushing connections are provided.
- **Hysteresis-free and excellent regulation characteristics**
are the prerequisites for regulating tasks. This is achieved by the continually variable aperture from 0-100%, similar to the IRIS diaphragm of a camera, always maintaining a central flow axis and by an enhanced segment edge design.
- **Several actuator designs available**
Electrical actuator for precise regulation permitting up to 1200 operations per hour. Optional pneumatic actuator, hand wheel or lever.
- **Various fields of applications**
The valve may be used for liquids, gases, granuls or powders.
- Available with integrated flow measurement for gases (refer to back sided)



Diaphragm Control Valve

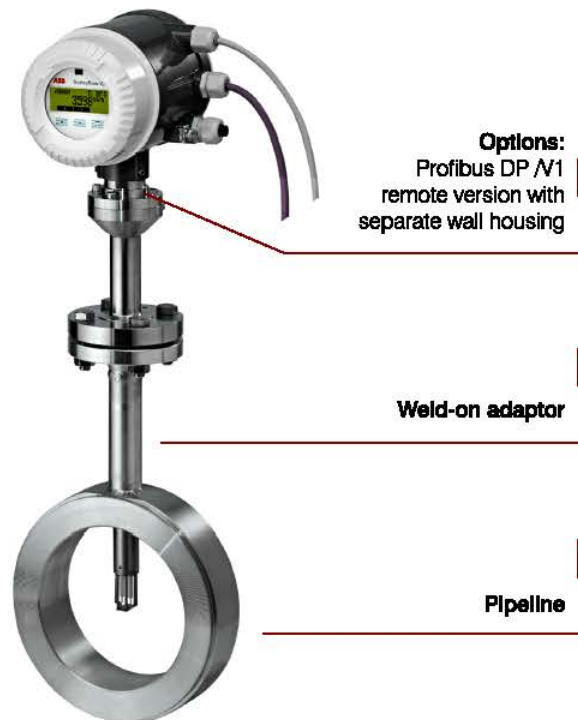
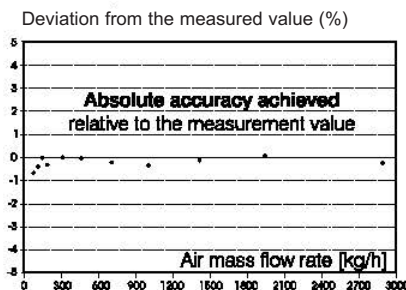
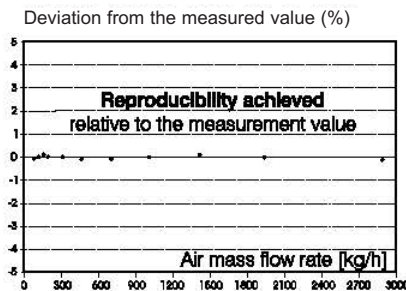
Integrated Sensyflow[®]

- Sensyflow[®] integrated mass flow rate measurement
- Accurately measured air flow rates
- Precisely measured air flow rates

The high thermal Sensyflow[®] gas mass flow rate measurement system from ABB Automation Products Ltd. is integrated directly in the central flow axis of the IRIS[®] diaphragm control valve.

Long flow stabilising pipes on the inlet and outlet are not needed with our optional Sensyflow[®] calibration on a DKD certified test bench.

Sensyflow[®] IG compact measurement unit



Advantages in a glance

- Independent of the control valve
- Independent of the control valve stroke
- Independent of the pressure and temperature
- High precision measurement (+2-5% measurement value)
- High reproducibility (+ 0.5%)
- Rapid response time (0.5 Seconds)
- Robust and compact unit
- Can be mounted in any position