**Test Facility for Water Supply Valves P11**

**Measurement**
- Appliance sound pressure $L_{ap}$

**Standard**
- DIN EN ISO 3822

**Measuring objects**
- Appliances, supply valves, equipment for water installations, fresh water filters, water softening systems

**Technical Data**
- Room volume: 55.8 m³
- Size of test wall: 11.7 m²
- Length of test pipe: 8.1 m (between water supply valves and the first clips of the measurement wall)
- Flow pressure: 0.3 or 0.5 MPa

**More information**
- Test facility with a low background noise level due to room-to-room construction. Testing of low-noise water supply valves possible.
- Measurement wall with a mass per unit area of 120 kg/m²
- Flow rate up to 2.0 Liters per second
- Issuing of special certificates, for example ‘Allgemeine Bauaufsichtliche Prüfzeugnisse (ABP)’ as needed in Germany

The test laboratory of the Fraunhofer IBP has been granted flexible accreditation according to DIN EN ISO/IEC 17025 by Deutsche Akkreditierungsstelle GmbH (DAkkS).
The Appliances to be tested are operated by a flow pressure of 0.3 or 0.5 MPa. The adjustment of the flow pressure is conducted by a regular pump system in a closed water cycle. Structure-borne sound emission from the appliances is transmitted via a measurement connection (steel pipe with 25 mm nominal size) by four rigid pipe clamps to the installation wall, and is radiated from it as air-borne sound to the receiving room. The mean sound pressure level in the receiving room is taken as a measurement variable.

Reproducible and comparable results are determined with relation to the standardized source of installation noise in the appliance sound pressure level $L_{ap}$, by which the water supply valves are classified in groups according to DIN 4109, Table 6.

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