



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 m ³
Size of test wall	11,7 m ²
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 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 in.

Section of test facility for water supply valves

