Performance test bench
Ref: HPMM et HPMT

MAIN FUNCTIONS

The performance test benches HPMM and HPMT are designed to test mechanical resistance and hydraulic characteristics of faucets, mixing valves or thermostatic and mechanical mixers. They are able to simulate a multitude of water supply conditions and perform an accurate analysis of the response of your devices to temperature (HW), flow and pressure (HW, CW) variations. These performance benches have been designed to meet the needs of:

- R & D during their product design phase;
- production department for routine tests;
- laboratories for characterization, qualification and compliance with standards.

A system of automatic control of measuring instruments makes it possible to realize independent standardized tests and the delivery of a documented report.

APPLICATIONS

MECHANICAL MIXING VALVES
Linear actuators and rotary actuators adjust flow rates and temperatures.

THERMOSTATIC MIXING VALVES
Two rotary actuators are positioned on the thermostatic mixing valves to start a complete test according to NF standards.

MECHANICAL MIXERS
The performance bench is suitable for carrying out endurance tests on mechanical mixing faucets.

ADVANTAGES

FLEXIBILITY OF THE BENCH
The performance test bench adapts to a multitude of faucets and thus expands the spectrum of products to be tested.

SIMPLE ASSEMBLY
The positioning of the valves on the actuators is quick and easy.

AUTOMATIC TESTS
The tests are performed automatically, no manual intervention is required.

AUTOMATIC REPORTS
Automatic redaction and editing of test reports according to selected standards.

OPERATING PROCEDURE

The test bench generates an adjustable pressure by means of servo pumps. Motorized actuators control the movement of the control levers of faucets, mixers, mechanical and thermostatic mixing valves. These actuators are installed on a "C" beam that allows flexible fixing of taps. When the devices to be tested are positioned on the test bench, the pre-programmed test scenarios will take place to measure and adjust pressures, flow rates, temperature, torque and operating force.

TECHNICAL CHARACTERISTICS

- HW/CW flow: 0-25 l/min
- HW/CW pressure: 0-6 bar
- Pressure measurement: ± 0.01 bar
- HW, CW, MW flowmetering: ± 0.1 l/min
- Automatic movements

OPTIONS

- Additional rotary actuator
- Additional linear actuator
- By-Pass hot/cold
- Distributor of mixed water
- Static pressure test 16 bar
- Detection of internal/external leaks
- Lowering of HWT
- Internal vessels of temperature control

TESTS ACCORDING TO STANDARDS

NF EN 200  EN 817  EN 1111
Doc Tech 3  Doc Tech 4  ASSE 1017