

DESCRIPTION OF THE COMPARATIVE TABLES OF TESTS DESCRIZIONE TABELLE COMPARATIVE PROVE

Giussani test benches are designed to check and test components of sanitary taps and hydraulic devices in general, according to the procedures imposed by the main international Standards.

Depending on the type of test and the device to be tested, the Aq2TB software guides the user in the choice of all the significant parameters characterizing the test itself.

The attached tables contains a summary description of the main tests with:

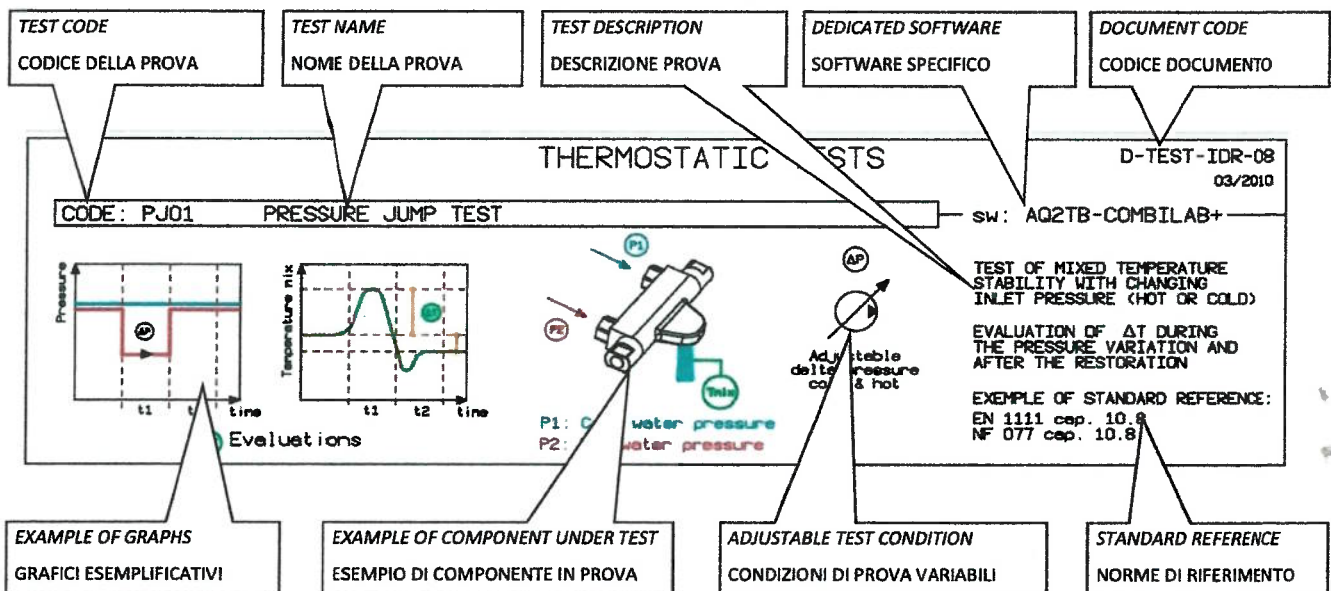
- *The graphical representation of the physical quantities measured.*
- *The example drawing of the installation of the device under test.*
- *The base operative range and the maximum achievable performance for each test bench.*
- *The main reference Standards.*

I banchi prova Giussani sono realizzati per testare e collaudare componenti di **rubinetteria idrosanitaria** e componenti idraulici in genere, secondo le procedure imposte dalle principali Norme di settore.

In funzione del tipo di prova e del componente da testare, il software Aq2TB guida l'utente nella scelta di tutti i parametri significativi che caratterizzano la prova stessa.

- Le tabelle allegate contengono una descrizione sintetica delle principali prove con:
- La rappresentazione grafica delle grandezze misurate.
- Lo schizzo esemplificativo dell'installazione del componente.
- I campi operativi delle versioni base e le prestazioni massime raggiungibili.
- Le principali Norme di riferimento.

EXPLANATION OF TESTS SPIEGAZIONE PROVE



CODE: P01 STATIC TEST sw: AQ2TB-STATICAUT

Pressure

time

Upstream

Downstream

Adjustable time

Adjustable slope

PRESSURE OPERATING RANGE
UPSTREAM
of the obturator: 0-16 bar
DOWNSTREAM
of the obturator: 0-25 bar

EXAMPLE OF STANDARD REFERENCE:
EN 200 chap. 8 - 9
EN 817 chap. 8 - 9
EN 1111:2017 chap. 12 - 14

CODE: P02 PULSING TEST sw: AQ2TB-PULSEAUT

Pressure

time

Adjustable time

Adjustable pressure

PRESSURE OPERATING RANGE
Minimum pressure: 0-8 bar
Maximum pressure: 2-50 bar

EXAMPLE OF STANDARD REFERENCE:
NF 077 doc.3 rev.19 chap. 2.6.12
NF 077 doc.4 rev.19 chap. 2.6.12

Cold water

CODE: F05 FLOW TEST - STEP PRESSURE sw: AQ2TB-FLOW-STEP

Pressure

Flow

time

Step number (adjustable) 1-25

Step pressure (adjustable) 0,1-10 bar

EXAMPLE OF STANDARD REFERENCE:
EN 200 chap. 10 - cold water
EN 817 chap. 10.6 - cold/hot water
EN 1111:2017 chap. 13.5.4
NF 077 doc.4 rev.19 chap. 2.6.7.3.4

T1: Cold water temperature
T2: Hot water temperature

CODE: F06 FLOW TEST - LINEAR PRESSURE sw: AQ2TB-FLOW-LIN

Pressure/Flow

Flow/Pressure

Up to 6 acquisitions

Pressure RANGE: 0,1-10 bar

Adjustable slope

EXAMPLE OF STANDARD REFERENCE
EN 200 chap. 10

T1: Cold water temperature

CODE: SFO1 SENSITIVITY & FIDELITY (RELIABILITY) TEST sw: AQ2TB-F+S-DRIVE

Fidelity

sensitivity

Temperature mix

deg

T1: Cold water temperature
T2: Hot water temperature

Temperature Variation

EXAMPLE OF STANDARD REFERENCE
EN 817 chap. 10.7

CODE: AT01 ACOUSTIC TEST sw: AQ2TB-NOISE

NOISE LEVEL

dB

Hz

time

Hydrophone

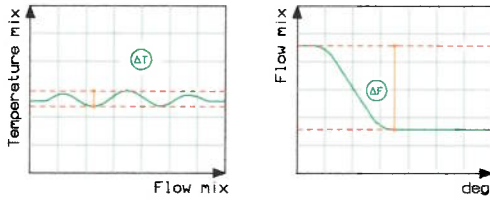
MEASUREMENT OF NOISE EMISSION FROM APPLIANCE AND EQUIPMENT USED IN WATER SUPPLY INSTALLATIONS

EXAMPLE OF STANDARD REFERENCE
EN 200 chap. 14
EN 817 chap. 14
EN 1111:2017 chap. 17

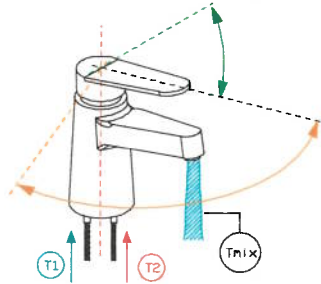
T: Cold water temperature

CODE: FV02 FLOW RATE VARIATION TEST

sw: AQ2TB-DT/DQ



Ⓐ Evaluations

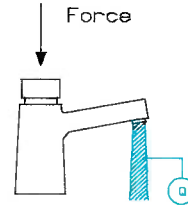
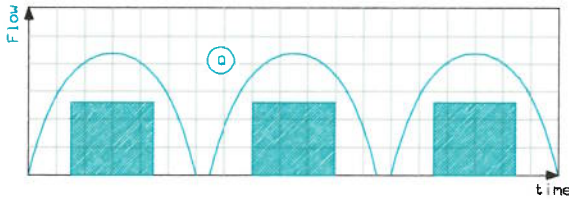


TEST OF MIXED TEMPERATURE STABILITY WITH FLOW RATE VARIATION

EXAMPLE OF STANDARD REFERENCE
NF 077 doc.3. rev.19 chap. 2.6.7.1.3
NF 077 doc.3. rev.18 chap. 2.6.7.1.4
NF 077 doc.3. rev.18 chap. 2.6.7.3.1

CODE: F07 AUTOMATIC SHUT-OFF VALVES FLOW-RATE TEST

sw: AQ2TB-LAB-ASV

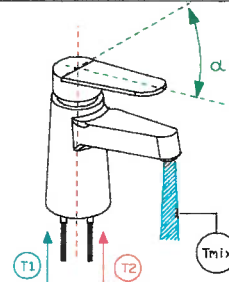
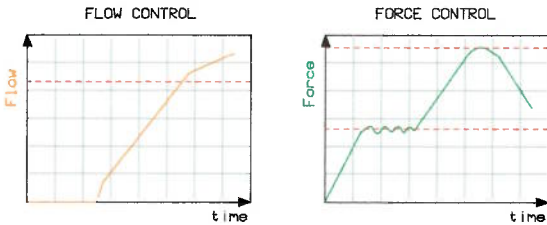


SOFTWARE FOR EVALUATION OF FLOW-RATE IN AUTOMATIC SHUT-OFF VALVES

EXAMPLE OF STANDARD REFERENCE
EN 816 chap. 11.3

CODE: SLFM FLOW-RATE AND FORCE IN "WATER SAVING" POSITION

sw: AQ2TB-SLFM
sw: AQ2TB-SLFM-LIFE
sw: AQ2TB-COMBI-RM

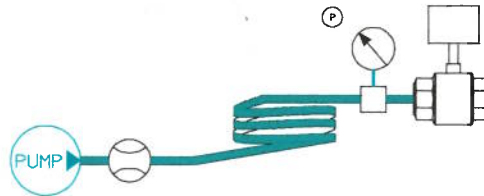
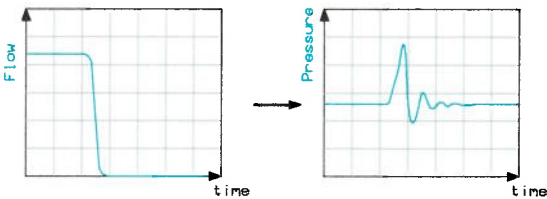


CONTROL AND ACQUISITION OF:
- ANGULAR POSITION
- ANGULAR SPEED
- TORQUE
- FLOW-RATE

EXAMPLE OF STANDARD REFERENCE
NF 077 doc.3 rev.19 chap. 2.6.7.2
NF 077 doc.3 rev.19 chap. 2.6.14

CODE: WHO1 WATER HAMMER MEASURE

sw: AQ2TB-HAMTEST



TEST RIG TO MEASURE THE OVERPRESSURE PRODUCED BY A QUICK CLOSURE OF AN HYDRAULIC DEVICE

EXAMPLE OF STANDARD REFERENCE
NF 076 doc.2 rev.10 chap. 1.8
EN 15091:2014 chap. 5.4