

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:

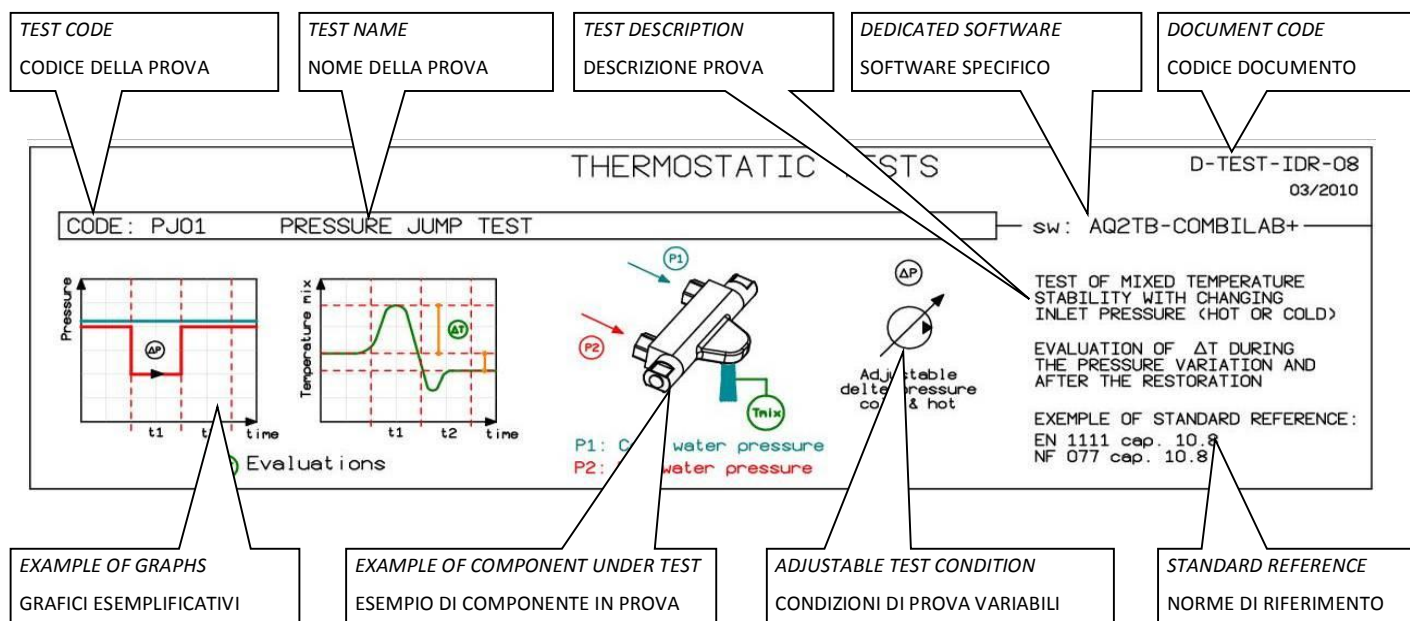
- The graphical representation of the physical quantities measured.
- The example drawing of the installation of the device under test.
- The base operative range and the maximum achievable performance for each test bench.
- The main reference Standards.

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.

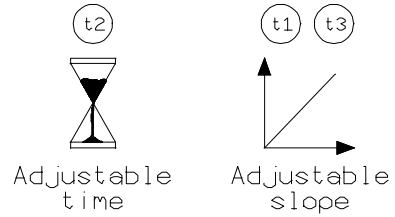
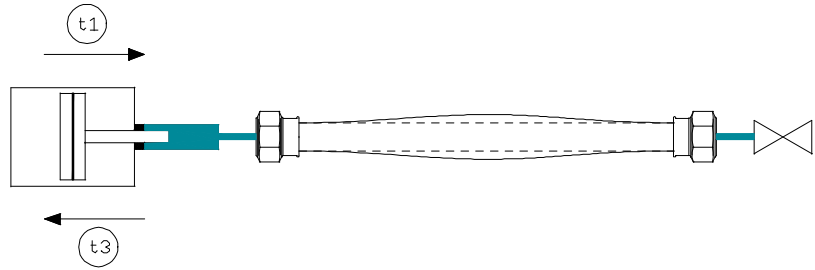
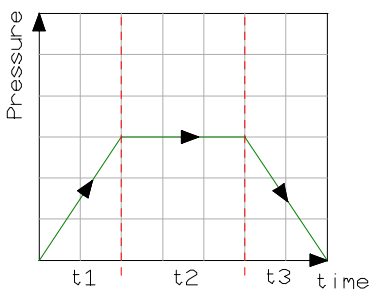
In funzione del tipo di prova e del componente da testare, il software Aq2TB guida l'utente nella scelta di tutti i parametri significativi che caratterizzano la prova stessa.

- 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

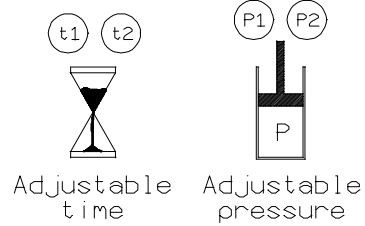
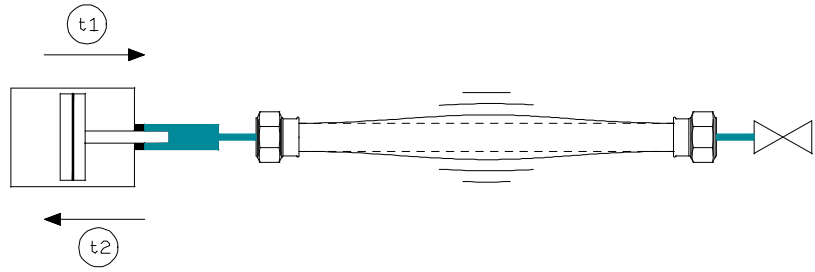
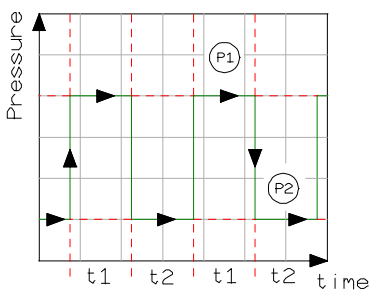


CODE: P01 STATIC TEST sw: AQ2TB-STATICAUT



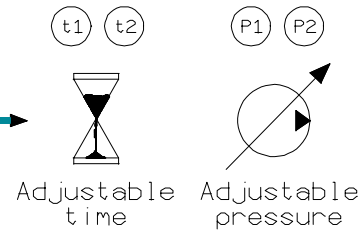
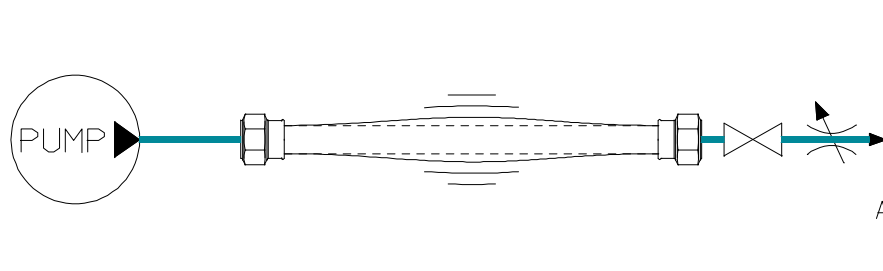
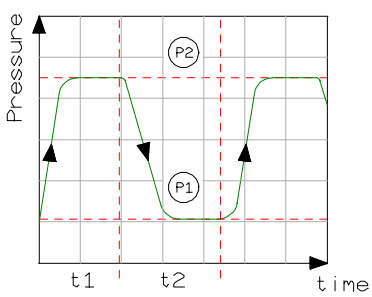
PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar

CODE: P02 PULSING TEST sw: AQ2TB-PULSEAUT



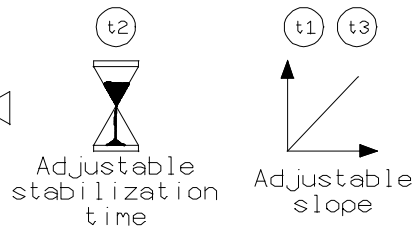
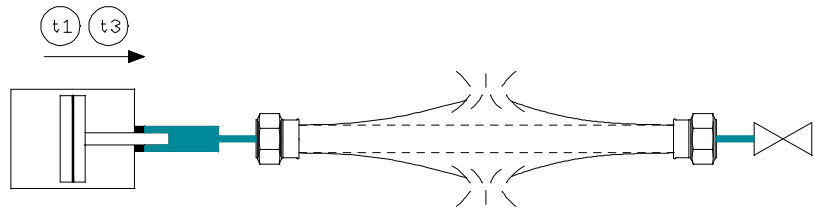
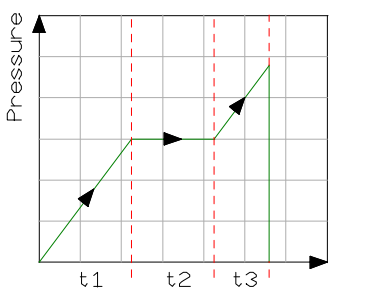
PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 bar

CODE: P03 CYCLING TEST sw: AQ2TB-CYCLEAUT



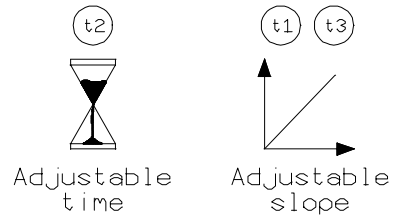
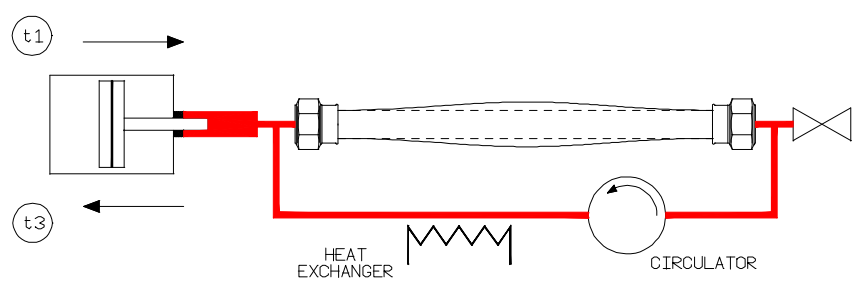
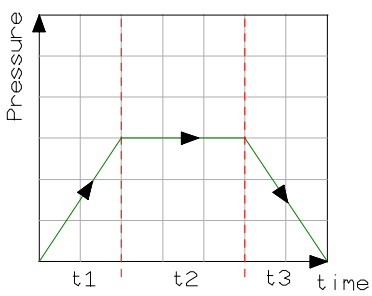
PRESSURE OPERATING RANGE
BASE MODEL: 10 bar
EXTENSION TO: 20 bar

CODE: P04 BURST TEST sw: AQ2TB-STATICAUT



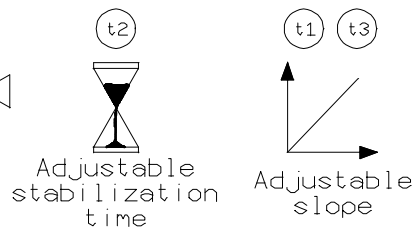
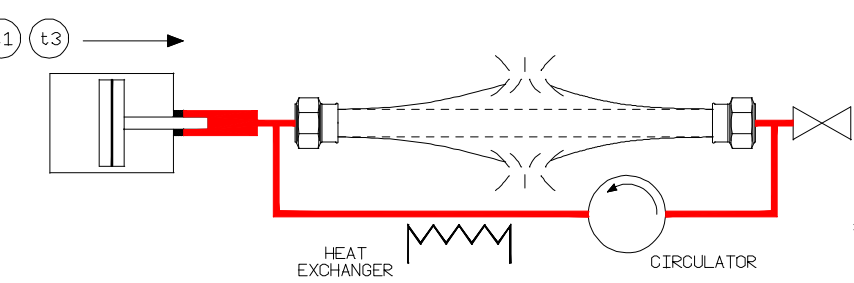
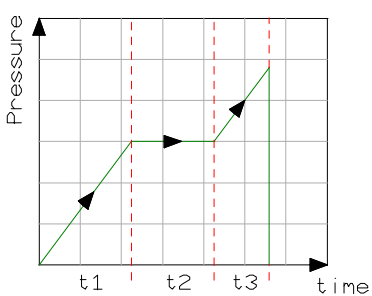
PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar

CODE: P01-HPF STATIC TEST WITH HOT WATER CIRCULATION sw: AQ2TB-STATICAUT



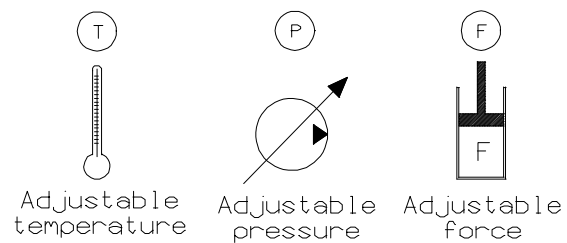
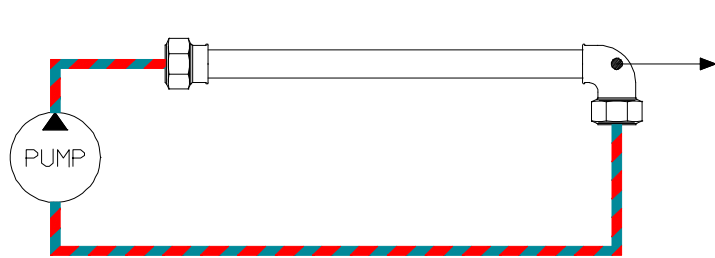
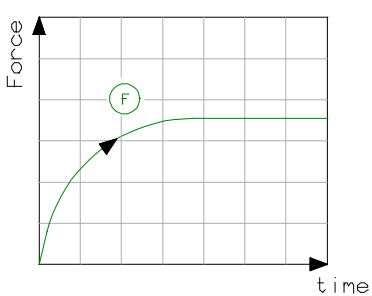
PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar

CODE: P04-HPF BURST TEST WITH HOT WATER CIRCULATION sw: AQ2TB-STATICAUT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar

CODE: AXT01 AXIAL TENSILE TEST sw: AQ2TB-AT-LAB

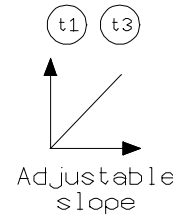
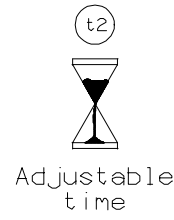
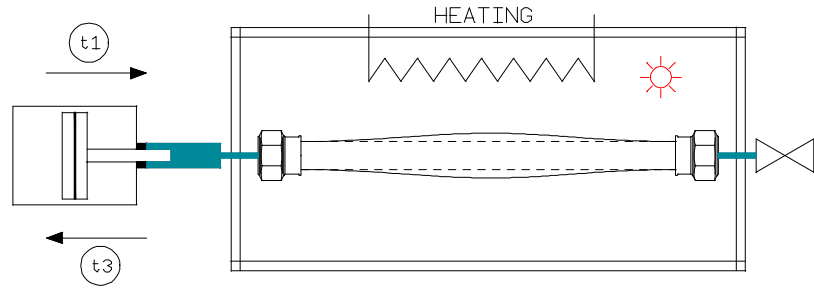
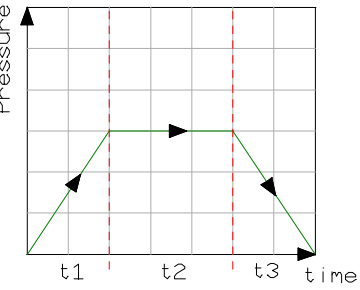


TEST RANGE
FORCE: 10 - 5000 N
TEMPERATURE: 10 - 95 °C
PRESSURE: 1 - 20 bar



CODE: PT01 STATIC TEST

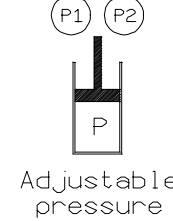
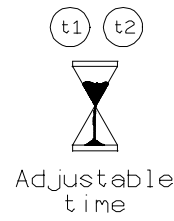
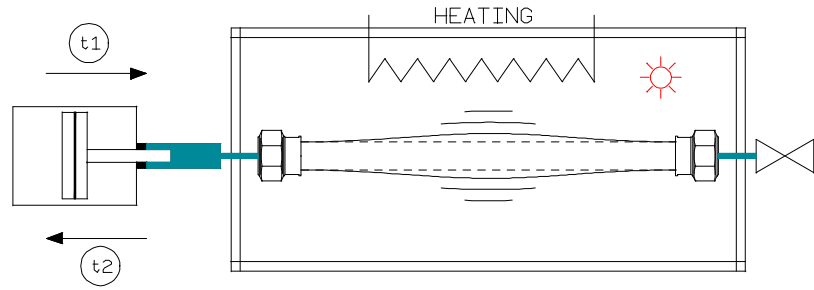
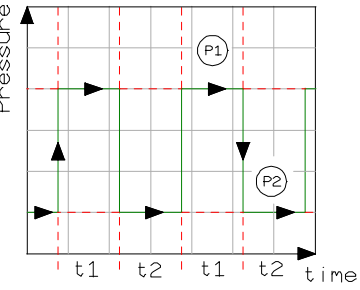
sw: AQ2TB-STATICAUT
sw: AQ2TB-STATIC-LT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar
WATER TEMPERATURE: Room Temp.

CODE: PT02 PULSING TEST

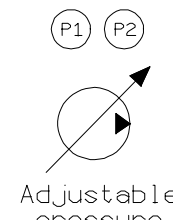
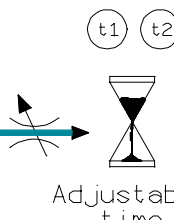
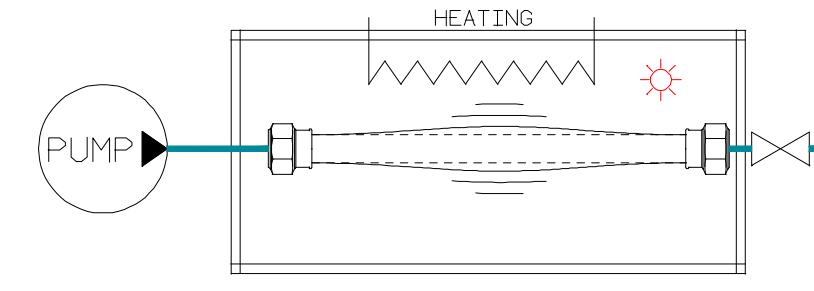
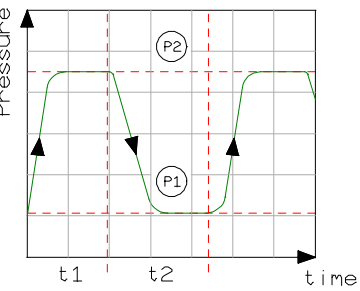
sw: AQ2TB-PULSEAUT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 bar
WATER TEMPERATURE: Room Temp.

CODE: PT03 CYCLING TEST

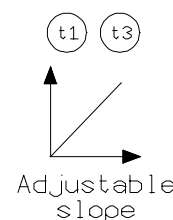
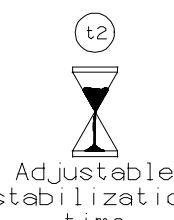
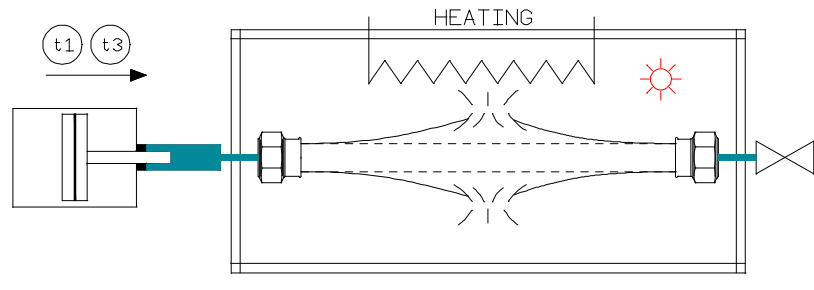
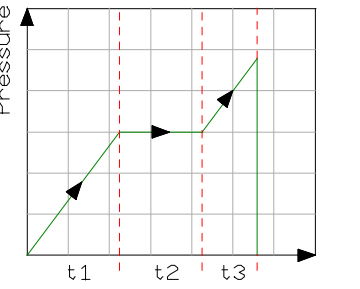
sw: AQ2TB-PULSEAUT



PRESSURE OPERATING RANGE
BASE MODEL: 10 bar
EXTENSION TO: 20 bar
WATER TEMPERATURE: Room Temp.

CODE: PT04 BURST TEST

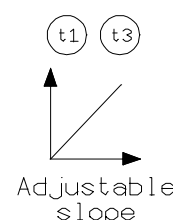
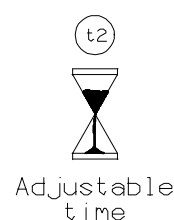
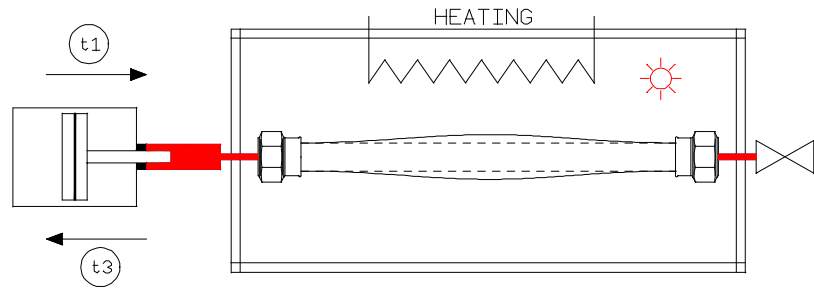
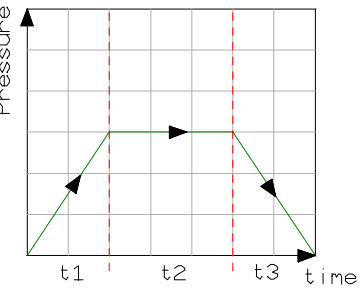
sw: AQ2TB-STATICAUT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar
WATER TEMPERATURE: Room Temp.

CODE: PT01H STATIC TEST

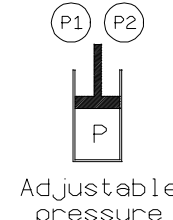
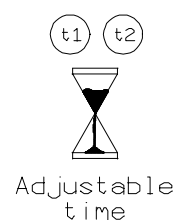
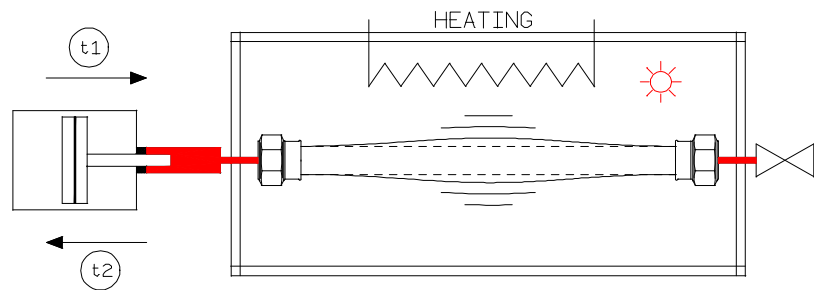
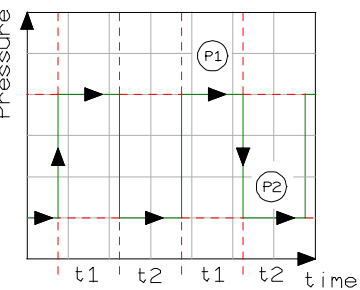
sw: AQ2TB-STATICAUT
sw: AQ2TB-STATIC-LT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar
ADJUSTABLE WATER TEMPERATURE:
up to 95 °C

CODE: PT02H PULSING TEST

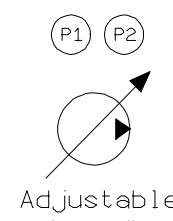
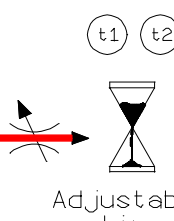
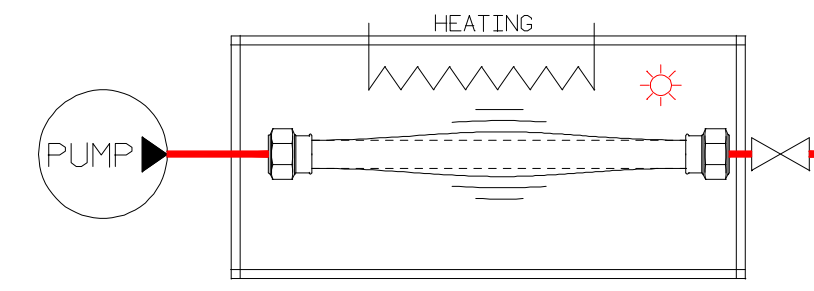
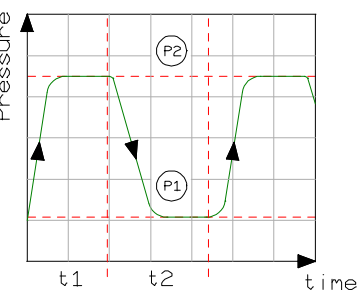
sw: AQ2TB-PULSEAUT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 bar
ADJUSTABLE WATER TEMPERATURE:
up to 95 °C

CODE: PT03H CYCLING TEST

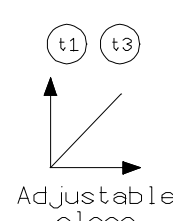
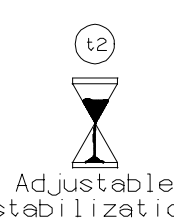
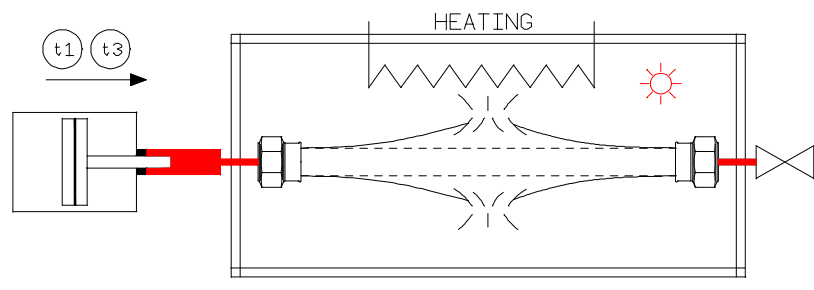
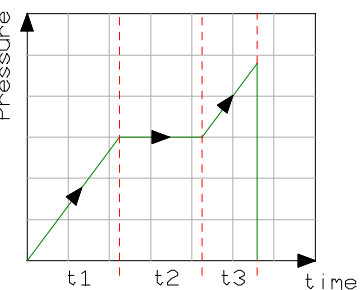
sw: AQ2TB-CYCLEAUT



PRESSURE OPERATING RANGE
BASE MODEL: 10 bar
EXTENSION TO: 20 bar
ADJUSTABLE WATER TEMPERATURE:
up to 95 °C

CODE: PT04H BURST TEST

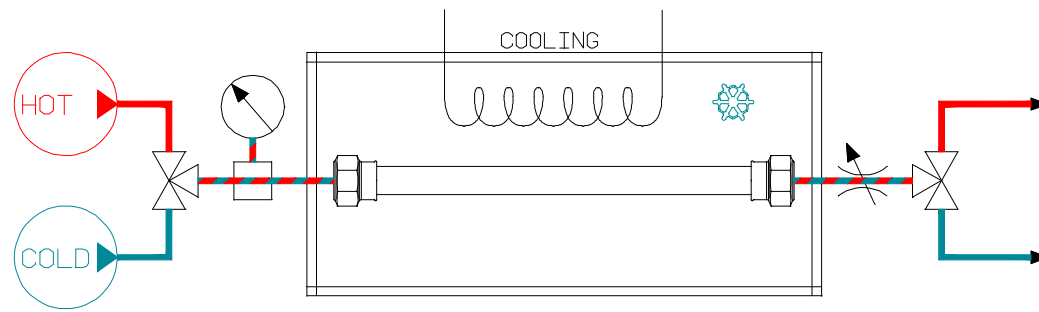
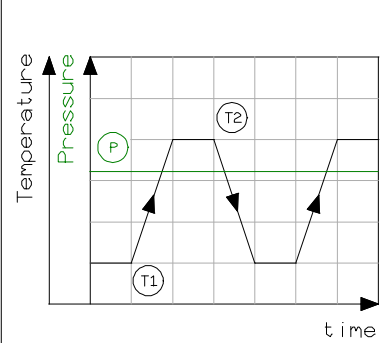
sw: AQ2TB-STATICAUT



PRESSURE OPERATING RANGE
BASE MODEL: 150 bar
EXTENSION TO: 250 / 400 / 800 bar
ADJUSTABLE WATER TEMPERATURE:
up to 95 °C

CODE: TCO1 THERMAL CYCLE TEST EN 12293

sw: AQ2TB-EN12293

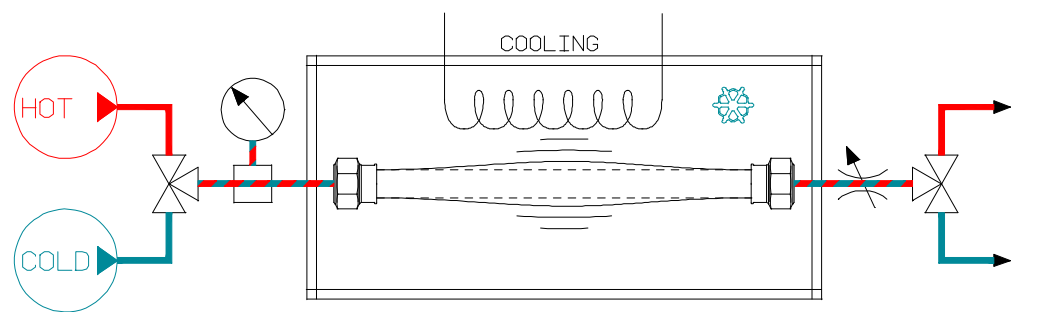
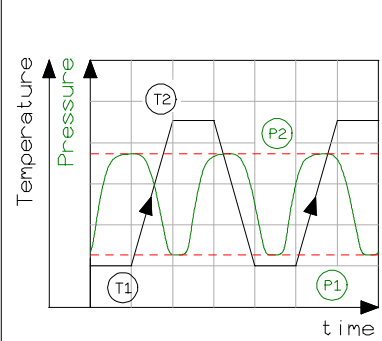


Adjustable temperature and pressure

TEST RANGE
PRESSURE: 1 - 14 bar
TEMPERATURE: 10 - 95 °C
FLOW: 2 - 50 L/min

CODE: P03-TC CYCLING PRESSURE + THERMAL CYCLE TEST

sw: AQ2TB-CYCLEAUT

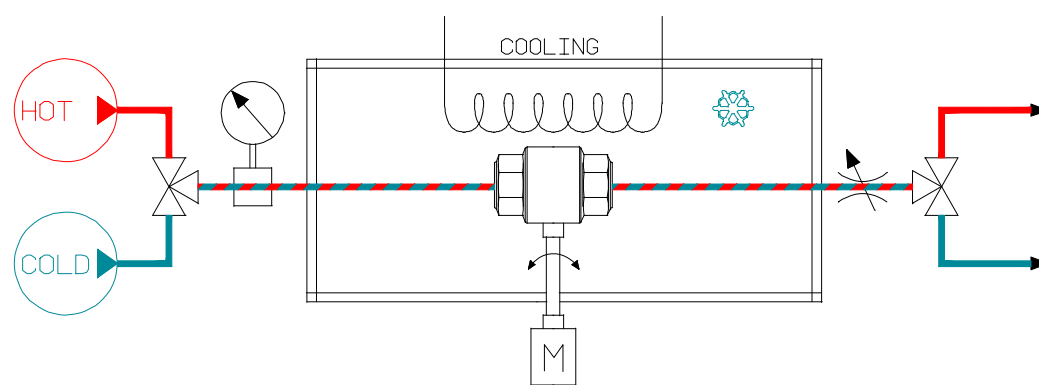
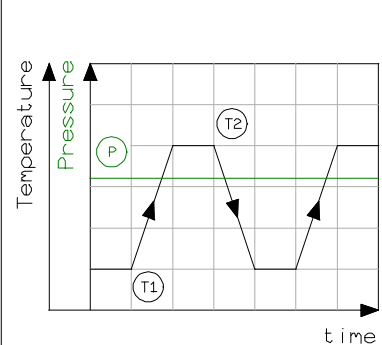


Adjustable temperature
Adjustable pressure

TEST RANGE
PRESSURE: 1 - 14 bar
TEMPERATURE: 10 - 95 °C
FLOW: 2 - 50 L/min

CODE: TCO3 THERMAL CYCLE & ENDURANCE TEST

sw: AQ2TB-LVALVE



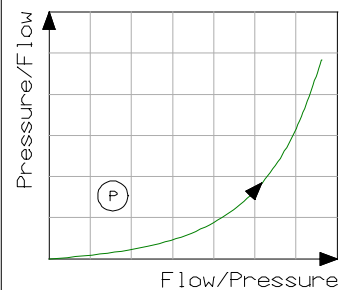
Adjustable temperature and pressure

TEST RANGE
PRESSURE: 1 - 14 bar
TEMPERATURE: 10 - 95 °C
FLOW: 2 - 50 L/min
SPEED: 10 - 180 °/s
TORQUE: 2 - 80 Nm
EXAMPLE OF STANDARD REFERENCE
EN 13828 chap. 7.6

FLOW RATE TESTS

CODE: F01 FLOW RATE AT DIFFERENT PRESSURE

sw: AQ2TB-FLOW-LIN

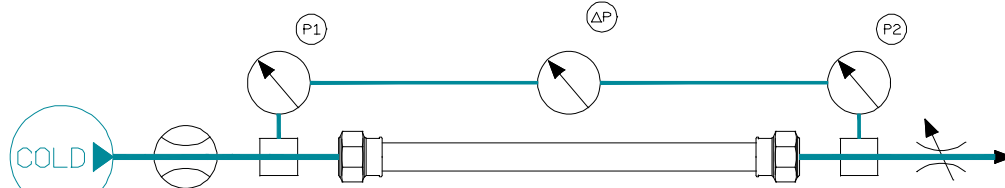
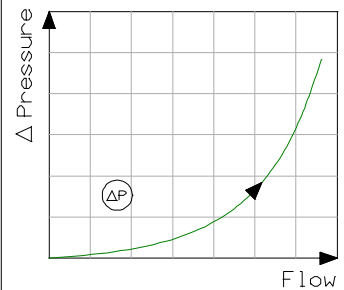


Adjustable slope

PRESSURE OPERATING RANGE
BASE MODEL: 1 - 10 bar
EXTENSION TO: 14 bar
FLOW RATE OPERATING RANGE
BASE MODEL: 1 - 100 L/min
EXTENSION TO: 250 - 600 L/min

CODE: F02 ΔPRESSURE AT DIFFERENT FLOW RATE - Kv CALCULATION

sw: AQ2TB-KV-LAB

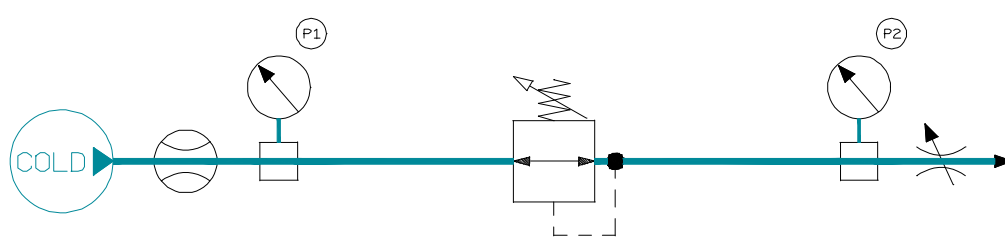
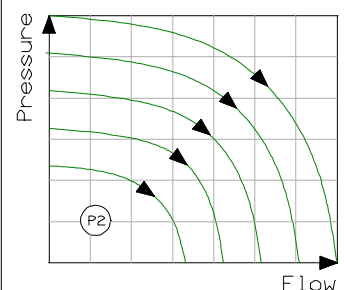


Adjustable slope

PRESSURE OPERATING RANGE
SUPPLY PRESSURE: 1 - 10 bar
ΔP PRESSURE: 0 - 2 bar
FLOW RATE OPERATING RANGE
BASE MODEL: 1 - 100 L/min
EXTENSION TO: 250 - 600 L/min

CODE: F03 PRESSURE AT DIFFERENT FLOW RATE

sw: AQ2TB-P-FLOW

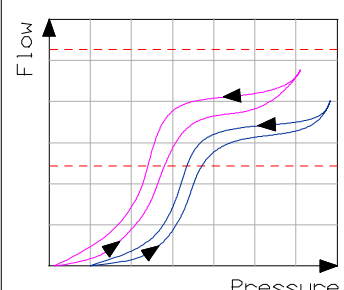


Adjustable slope

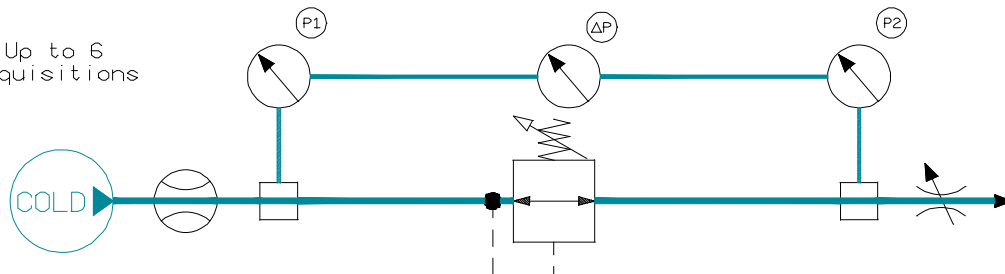
PRESSURE OPERATING RANGE
SUPPLY PRESSURE: 1 - 9 bar
ΔP PRESSURE: 0 - 8 bar
FLOW RATE OPERATING RANGE
BASE MODEL: 1 - 100 L/min
EXTENSION TO: 250 - 600 L/min

CODE: F04 FLOW RATE AT DIFFERENT ΔPRESSURE

sw: AQ2TB-FLOW-DP



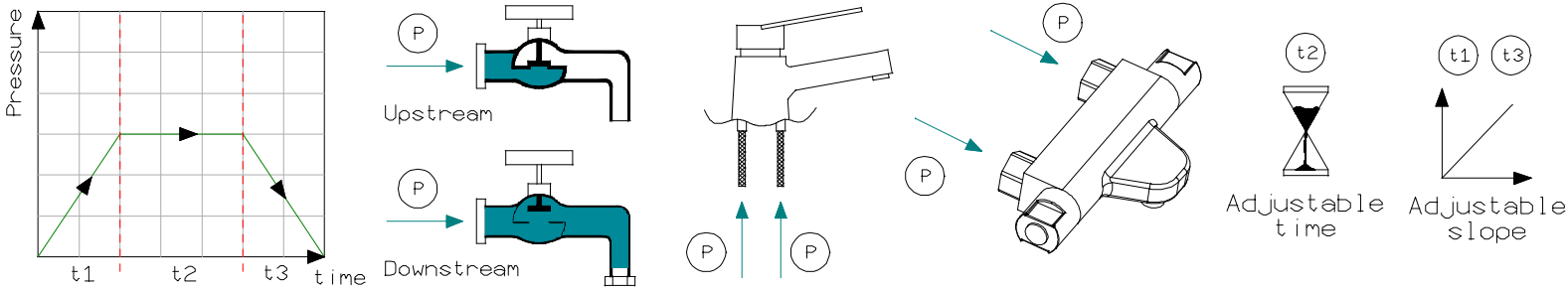
Up to 6 acquisitions



Adjustable slope

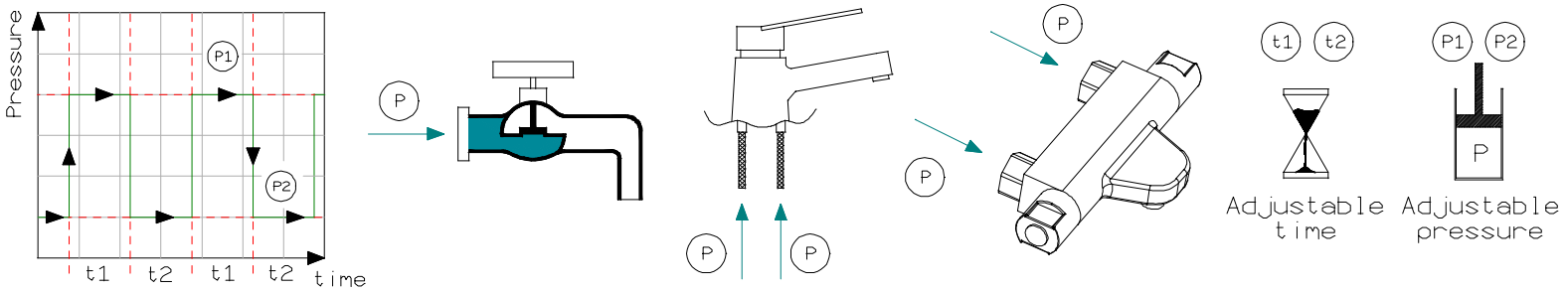
PRESSURE OPERATING RANGE
SUPPLY PRESSURE: 1 - 9 bar
ΔP PRESSURE: 0 - 8 bar
FLOW RATE OPERATING RANGE
BASE MODEL: 1 - 100 L/min
EXTENSION TO: 250 - 600 L/min

CODE: P01 STATIC TEST sw: AQ2TB-STATICAUT



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

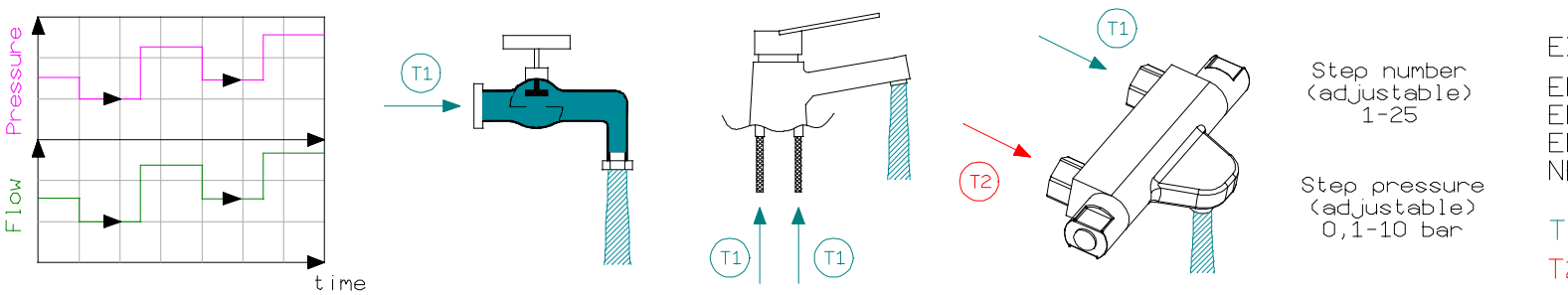
CODE: P02 PULSING TEST sw: AQ2TB-PULSEAUT



PRESSURE 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

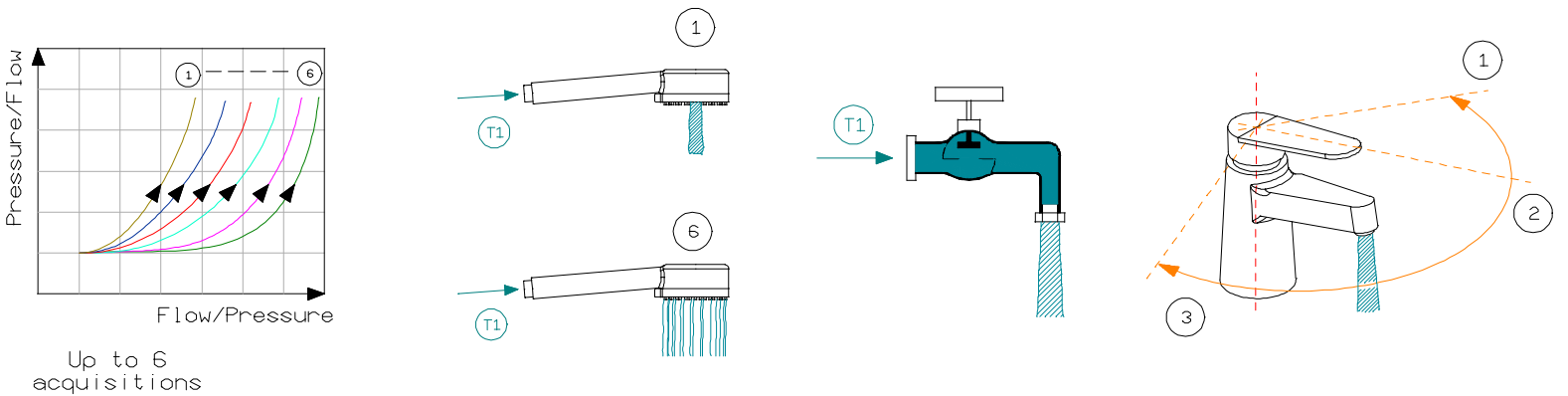
CODE: F05 FLOW TEST - STEP PRESSURE sw: AQ2TB-FLOW-STEP



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

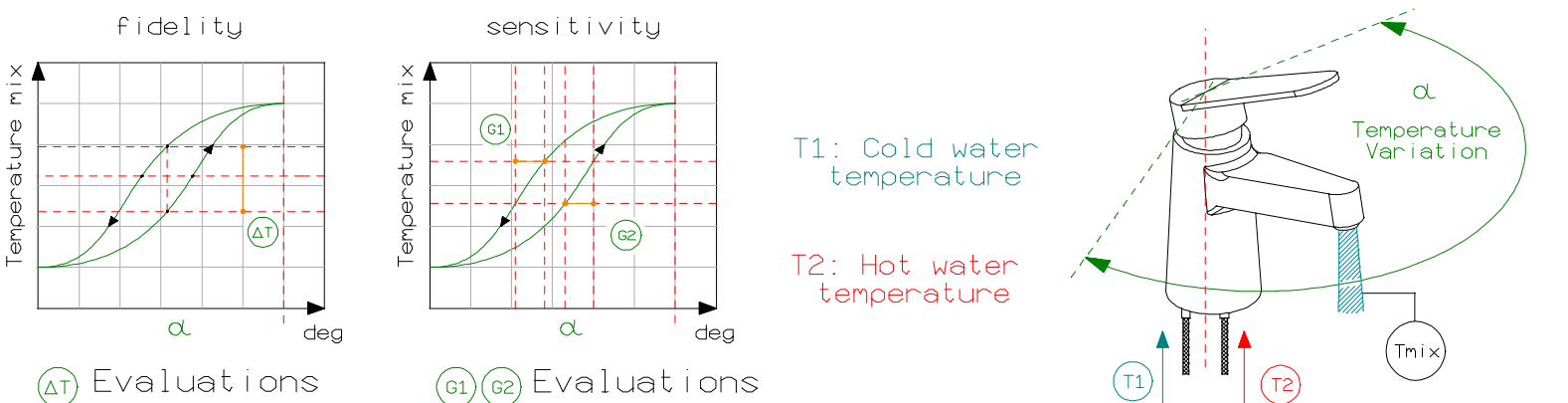


PRESSURE RANGE:
0,1-10 bar
Adjustable slope

EXAMPLE OF STANDARD REFERENCE
EN 200 chap. 10

T1: Cold water temperature

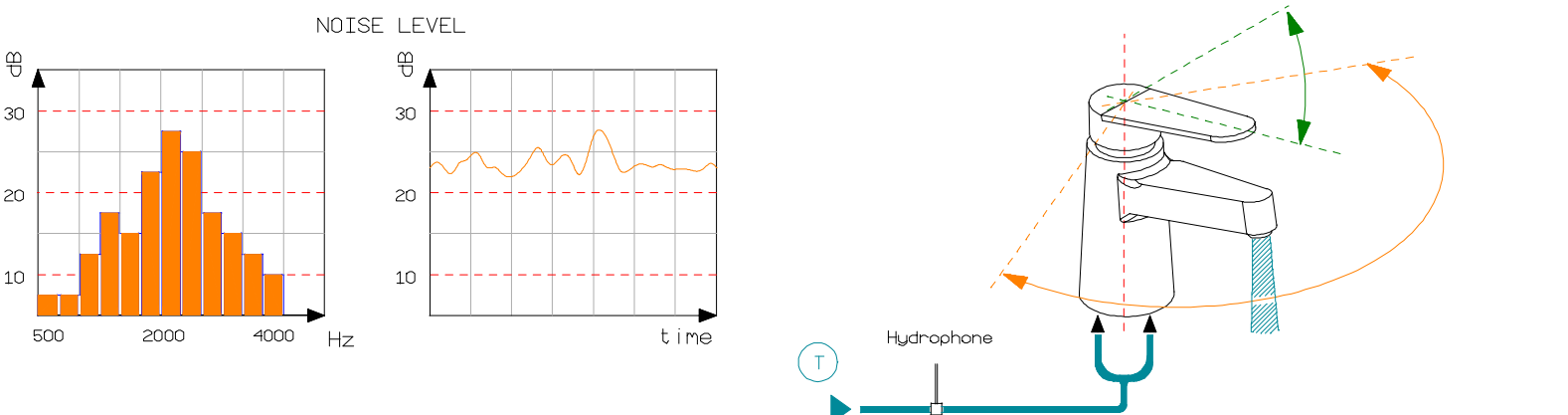
CODE: SFO1 SENSITIVITY & FIDELITY (RELIABILITY) TEST sw: AQ2TB-F+S-DRIVE



TEST OF MIXED TEMPERATURE
HISTERESYS AND SENSITIVITY
BY MOVING THE TEMPERATURE
SETTING DEVICE FROM COLD TO
HOT POSITION AND RETURNING TO
INITIAL POSITION

EXAMPLE OF STANDARD REFERENCE
EN 817 chap. 10.7

CODE: AT01 ACOUSTIC TEST sw: AQ2TB-NOISE



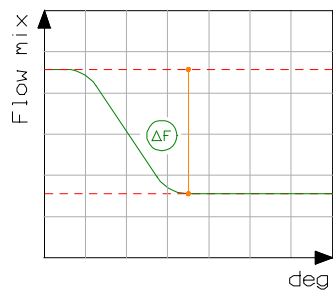
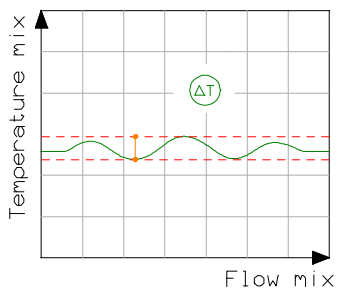
MEASUREMENT OF NOISE
EMISSION FROM APPLIANCE
AND EQUIPMENT USED IN
WATER SUPPLY INSTALLATIONS

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

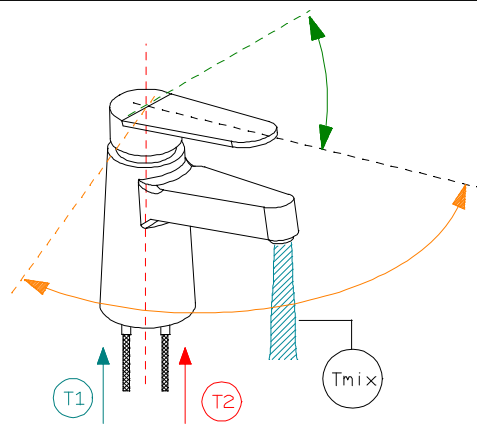
T: Cold water temperature

CODE: FV02 FLOW RATE VARIATION TEST

sw: AQ2TB-DT/DQ



⊕ Evaluations



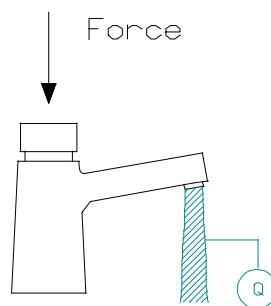
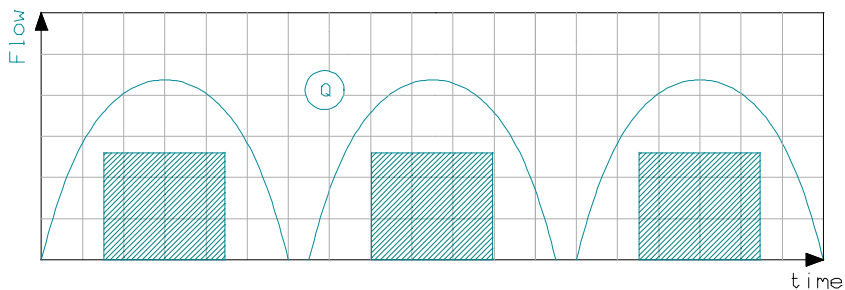
TEST OF MIXED TEMPERATURE STABILITY WITH FLOW RATE VARIATION

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



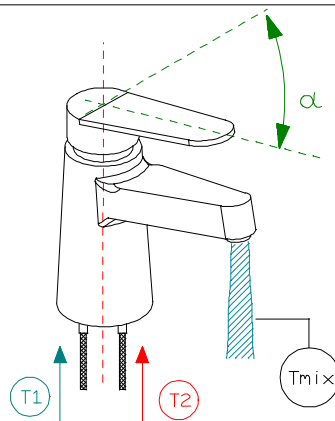
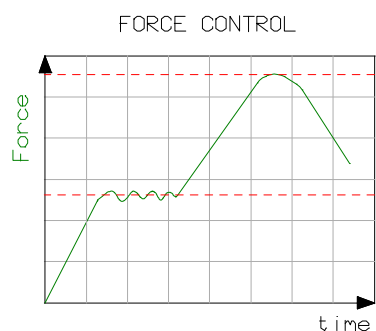
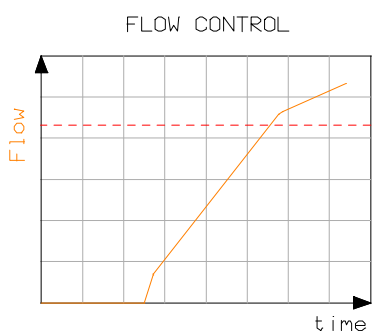
SOFTWARE FOR EVALUATION OF FLOW-RATE IN AUTOMATIC SHUT-OFF VALVES

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:

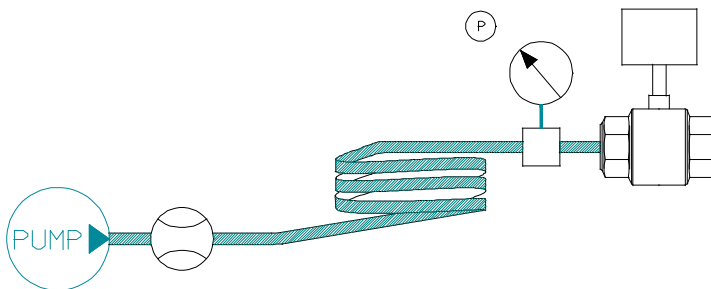
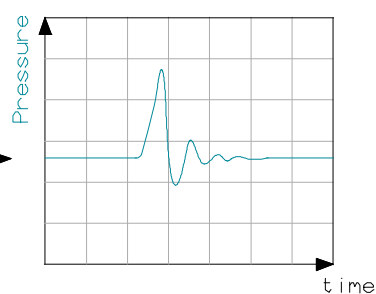
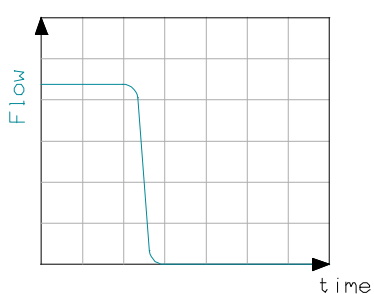
- ANGULAR POSITION
- ANGULAR SPEED
- TORQUE
- FLOW-RATE

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

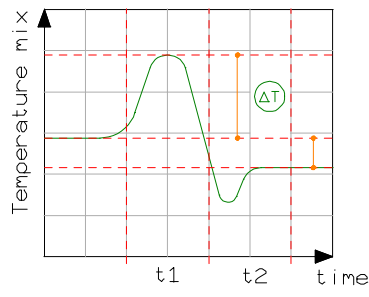
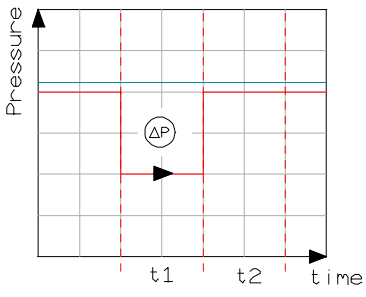


TEST RIG TO MEASURE THE OVERPRESSURE PRODUCED BY A QUICK CLOSURE OF AN HYDRAULIC DEVICE

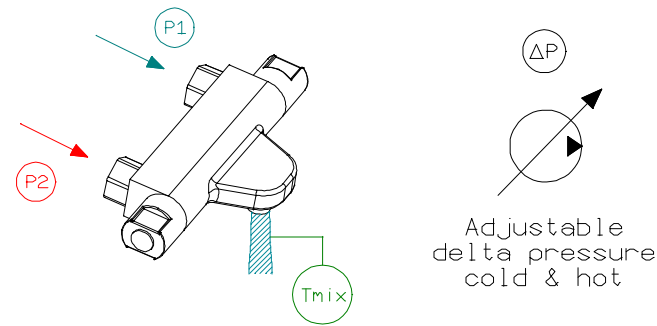
EXAMPLE OF STANDARD REFERENCE

- NF 076 doc.2 rev.10 chap. 1.8
- EN 15091:2014 chap. 5.4

CODE: PJO1 PRESSURE JUMP TEST



ΔT Evaluations



P1: Cold water pressure
P2: Hot water pressure

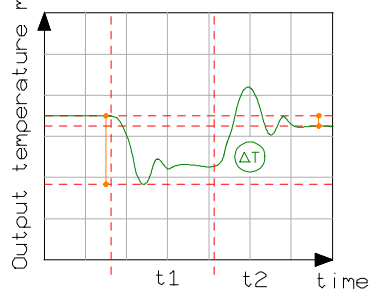
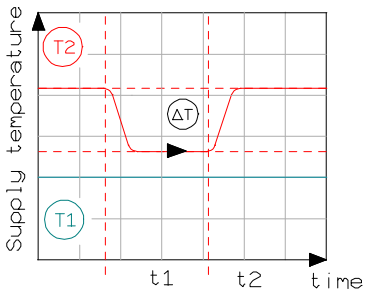
sw: AQ2TB-COMBILAB+
sw: AQ2TB-FLOW-STEP

TEST OF MIXED TEMPERATURE STABILITY WITH CHANGING INLET PRESSURE (HOT OR COLD)

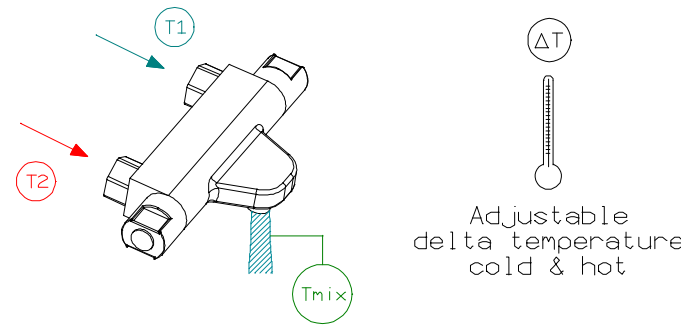
EVALUATION OF T DURING THE PRESSURE VARIATION AND AFTER THE RESTORATION

EXAMPLE OF STANDARD REFERENCE:
EN 1111:2017 chap. 13.5.4
NF 077 doc.4 rev.19 chap. 2.6.7.3.4

CODE: TJO1 TEMPERATURE JUMP TEST



ΔT Evaluations



T1: Cold water temperature
T2: Hot water temperature

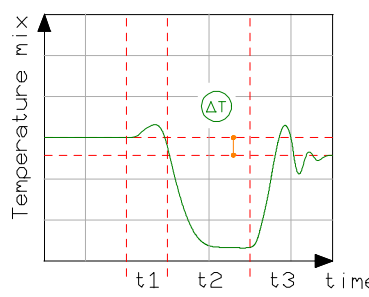
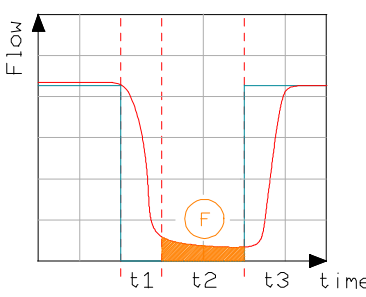
sw: AQ2TB-COMBILAB+

TEST OF MIXED TEMPERATURE STABILITY WITH CHANGING INLET TEMPERATURE (HOT OR COLD)

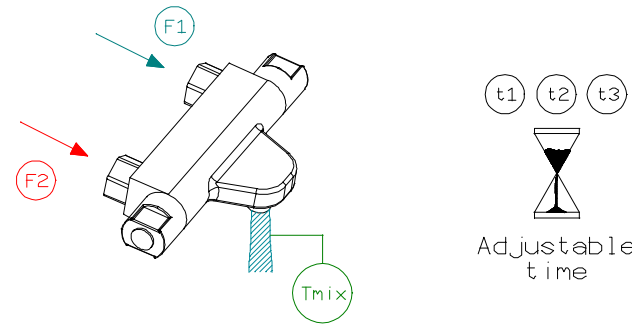
EVALUATION OF T DURING THE PRESSURE VARIATION AND AFTER THE RESTORATION

EXAMPLE OF STANDARD REFERENCE:
EN 1111:2017 chap. 13.5.5
NF 077 doc.4 rev.19 chap. 2.6.7.3.5

CODE: ST01 SAFETY TEST



ΔT Evaluations



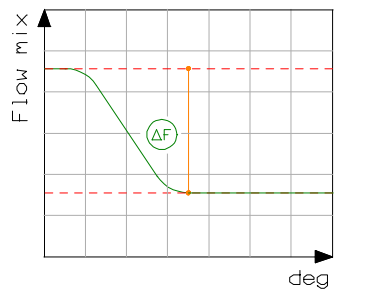
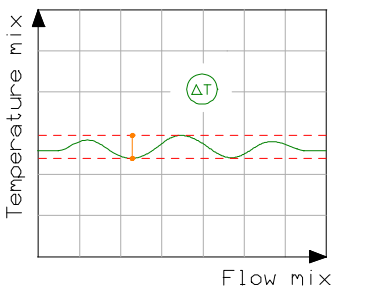
F1: Cold water flow
F2: Hot water flow

sw: AQ2TB-M-LAB-NF
sw: AQ2TB-M-LAB-EN
sw: AQ2TB-M-LAB-D08
sw: AQ2TB-M-LAB-CSA

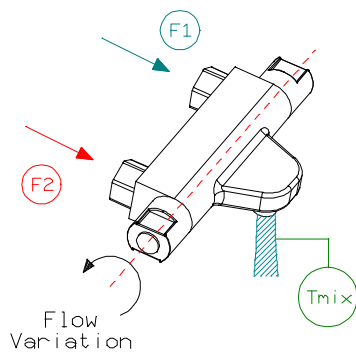
TEST OF SAFETY WITH COLD WATER FAILURE AND RESTORATION WITH EVALUATION OF HOT WATER COLLECTED DURING t2 AND T MIXED AFTER COLD WATER RESTORATION

EXAMPLE OF STANDARD REFERENCE:
EN 1111:2017 chap. 13.5.3
NF 077 doc.4 rev.19 chap. 2.6.7.1.4
NHS D08:2017 chap. 7.9
ASSE/CSA 1016-2017 chap. 4.7

CODE: FVO1 FLOW RATE VARIATION TEST



ΔT Evaluations



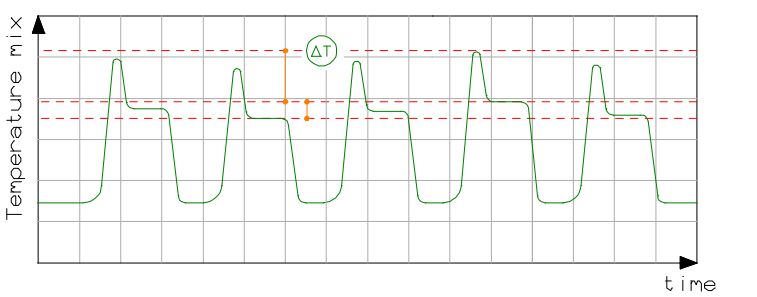
Flow Variation

sw: AQ2TB-DT/DQ
sw: AQ2TB-SLFM
sw: AQ2TB-COMBILAB+
sw: AQ2TB-COMBI-RM

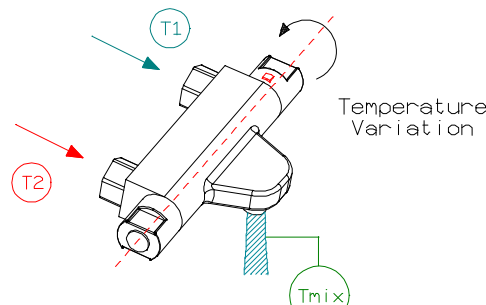
TEST OF MIXED TEMPERATURE STABILITY WITH FLOW RATE VARIATION

EXAMPLE OF STANDARD REFERENCE
EN 1111:2017 chap. 13.5.2
NF 077 doc.4 rev.19 chap. 2.6.7.5.5

CODE: TV01 TEMPERATURE VARIATION TEST



ΔT Evaluations



Temperature Variation

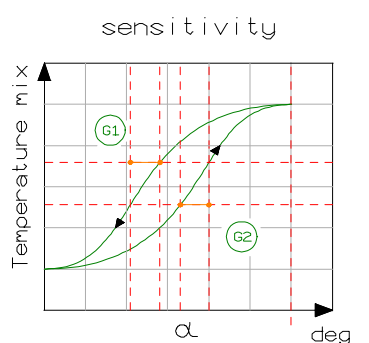
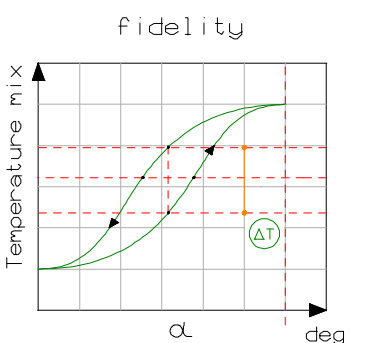
sw: AQ2TB-COMBILAB+
sw: AQ2TB-COMBI-RM

TEST OF TEMPERATURE OVERRIDE STOP WITH EVALUATION OF TEMPERATURE TRANSIENT AND FINAL TEMPERATURE

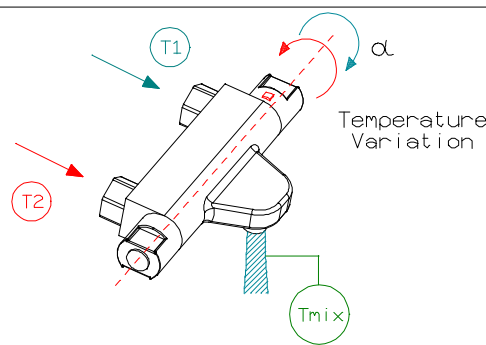
EXAMPLE OF STANDARD REFERENCE
EN 1111:2017 chap. 13.5.6
NF 077 doc.4 rev.19 chap. 2.6.7.1.3
NF 077 doc.4 rev.19 chap. 2.6.7.3.2

T1: Cold water temperature
T2: Hot water temperature

CODE: SFO2 SENSITIVITY & FIDELITY TEST



ΔT Evaluations G1 G2 Evaluations



T1: Cold water temperature
T2: Hot water temperature

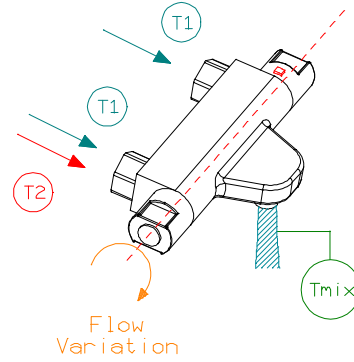
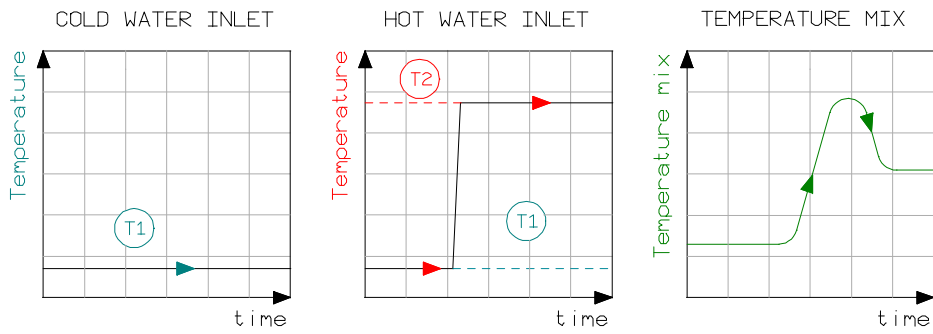
sw: AQ2TB-F+S-DRIVE

TEST OF MIXED TEMPERATURE HISTERESYS AND SENSITIVITY BY MOVING THE TEMPERATURE SETTING DEVICE FROM COLD TO HOT POSITION AND RETURNING TO INITIAL POSITION

EXAMPLE OF STANDARD REFERENCE
EN 1111:2017 chap. 13.3 - 13.4

CODE: INDR01 INITIAL DRAWING OFF TEST

sw: AQ2TB-COMBI-RM



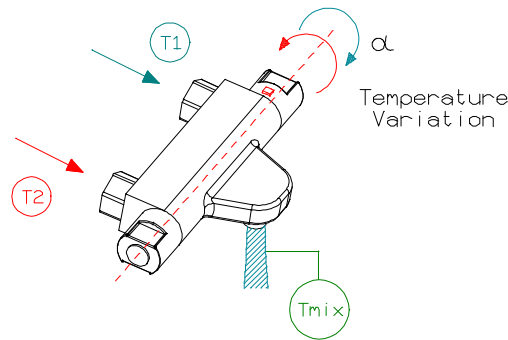
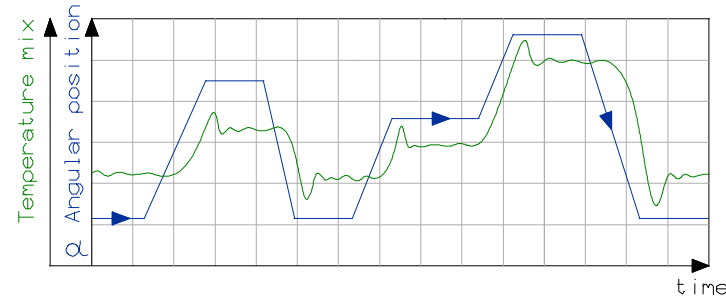
VALUATION OF TEMPERATURE PEAK AFTER THE FIRST DRAWING OFF

EXAMPLE OF STANDARD REFERENCE
NF 077 doc.4 rev.19 chap. 2.6.7.3.6
NF 077 doc.4 rev.19 chap. 2.6.7.6.6

T1: Cold water temperature
T2: Hot water temperature

CODE: ASTD01 AUTOMATIC SETTING OF TEMPERATURE DEVICE

sw: AQ2TB-ASTD



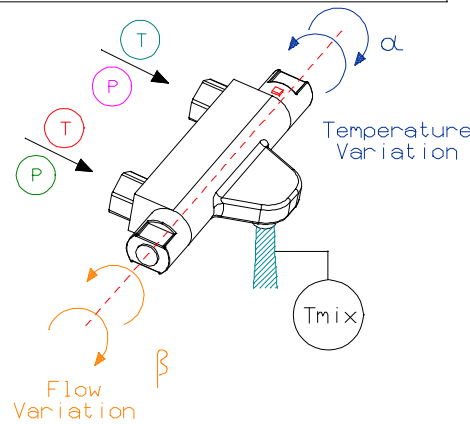
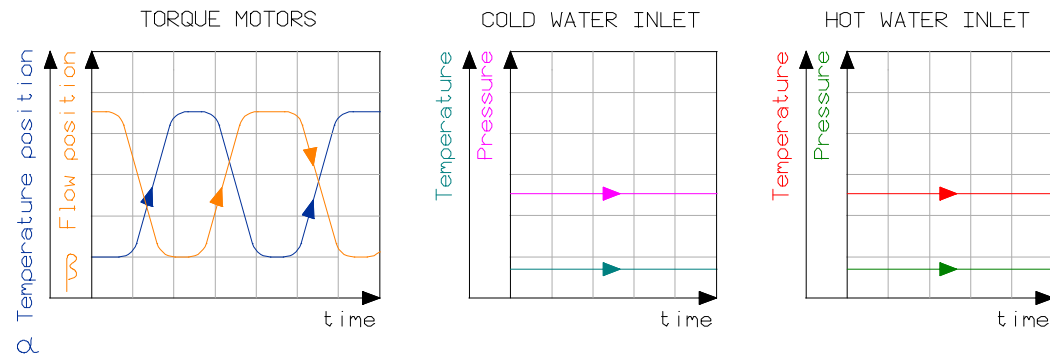
AUTOMATIC TEST FOR CHECKING PEAK TEMPERATURE EVALUATION OBSERVED FOR THE SETTING VARIATION OF THE MIXING DEVICE

EXAMPLE OF STANDARD REFERENCE
EN 1111:2017 chap. 13.5.1

T1: Cold water temperature
T2: Hot water temperature

CODE: ETM01-A THERMOSTATIC MIXER ENDURANCE TEST

sw: AQ2TB-LT0C-CSA



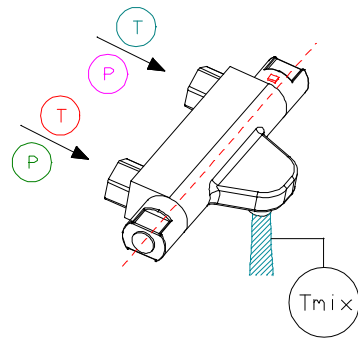
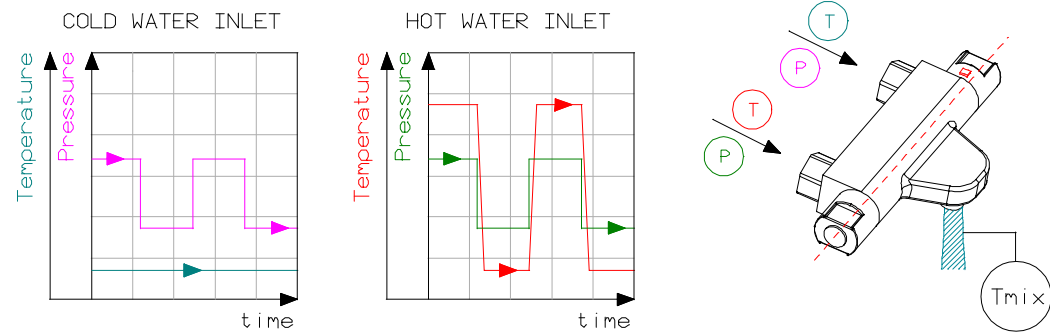
CONTROL AND ACQUISITION OF:

- ANGULAR SPEED
- TORQUE
- MIXED WATER TEMPERATURE
- SUPPLY WATER PRESSURE
- SUPPLY WATER TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
ASSE/ASME/CSA 1016:17 chap. 4.5.2

CODE: ETM01-B THERMOSTATIC MIXER ENDURANCE TEST

sw: AQ2TB-LTIE-CSA



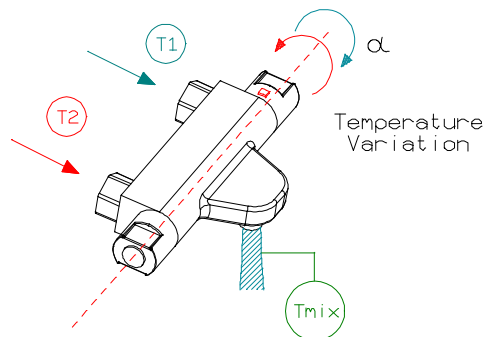
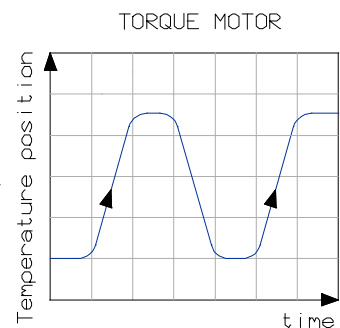
CONTROL AND ACQUISITION OF:

- ANGULAR SPEED
- TORQUE
- MIXED WATER TEMPERATURE
- SUPPLY WATER PRESSURE
- SUPPLY WATER TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
ASSE/ASME/CSA 1016:17 chap. 4.5.3

CODE: ETM02 THERMOSTATIC MIXER ENDURANCE TEST

sw: AQ2TB-1LM-DRIVE



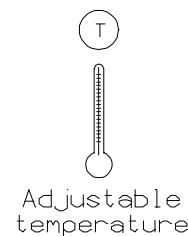
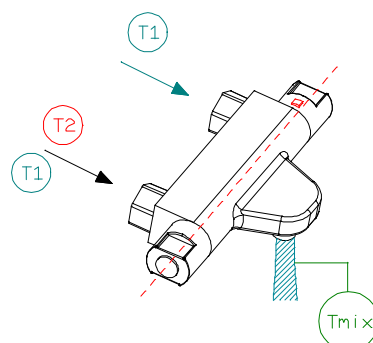
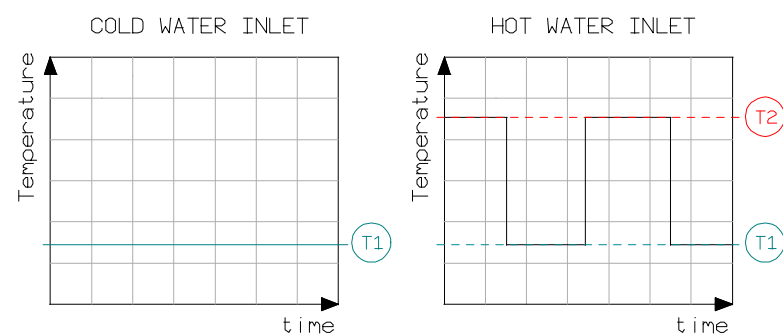
CONTROL AND ACQUISITION OF:

- ANGULAR SPEED
- TORQUE
- MIXED WATER TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
EN1111:2017 chap. 16.8.2
NF 077 doc.4 rev.18 chap. 12.5

CODE: ETV01 TEMPERATURE LIMITING DEVICE ENDURANCE TEST

sw: AQ2TB-1LM-H&C



CONTROL AND ACQUISITION OF:

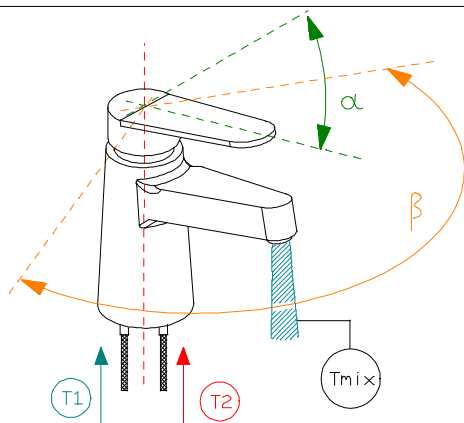
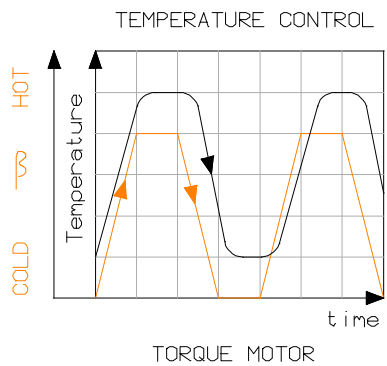
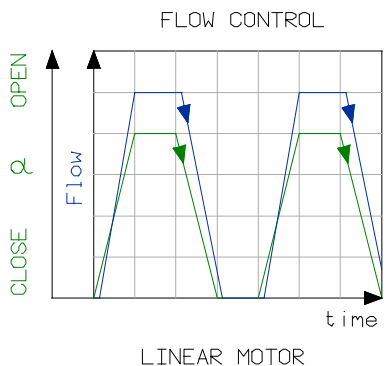
- SUPPLY TEMPERATURES
- MIXED WATER TEMPERATURE
- CYCLE PARAMETERS

EXAMPLE OF STANDARD REFERENCE
EN 1111:2017 chap. 16.8.3
EN 15092 chap. 7.10

T1: Cold water temperature
T2: Hot water temperature

CODE: ESLO1 SINGLE LEVER MIXER ENDURANCE TEST

sw: AQ2TB-LM-ENCSA



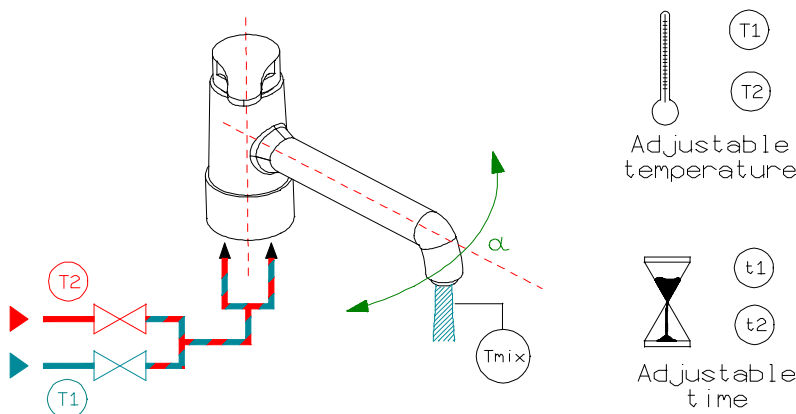
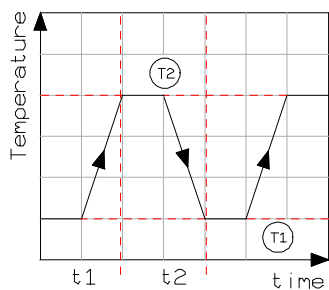
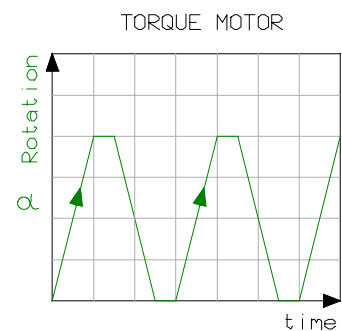
CONTROL AND ACQUISITION OF:

- LINEAR SPEED
- FORCE
- ANGULAR SPEED
- TORQUE
- MIXED WATER TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
EN 817 chap. 12.1
ASME A112.18.1-2018/
CSA B125.1-18 chap. 5.6.1

CODE: ESSO1 SWIVEL SPOUT ENDURANCE TEST

sw: AQ2TB-LBM-ENCSA



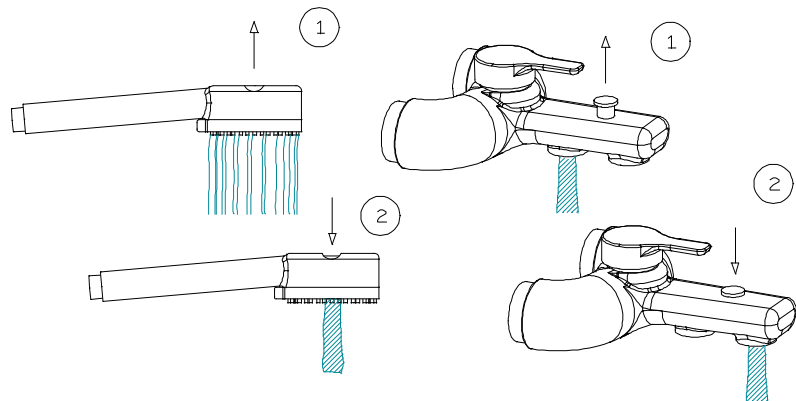
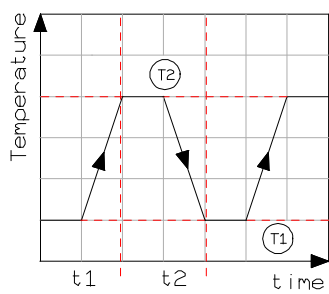
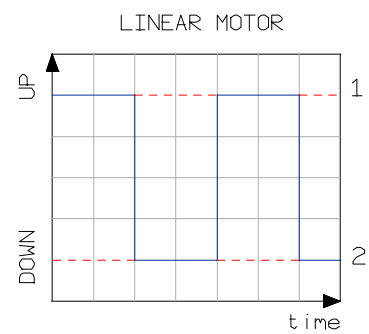
CONTROL AND ACQUISITION OF:

- ANGULAR SPEED
- TORQUE
- WATER SUPPLY TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
EN 817 chap. 12.3
ASME A112.18.1-2018/
CSA B125.1-18 chap. 5.6.1.3

CODE: EDO1 DIVERTER ENDURANCE TEST

sw: AQ2TB-LD-ENCSA



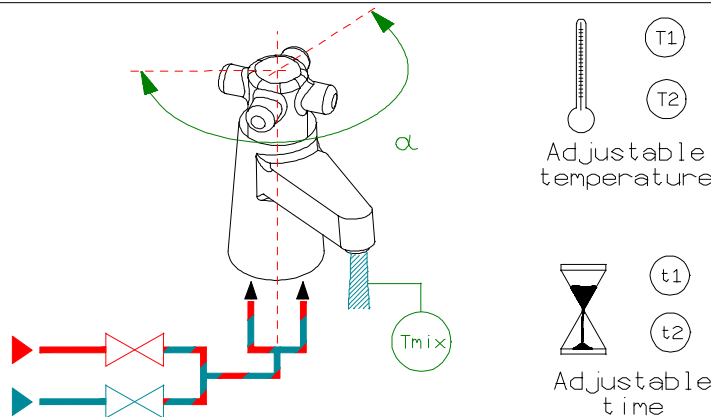
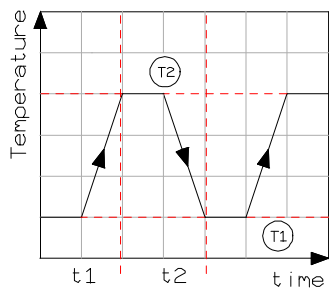
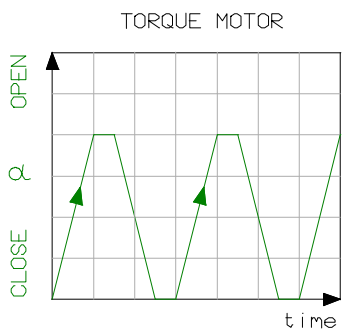
CONTROL AND ACQUISITION OF:

- LINEAR SPEED
- FORCE
- FLOW VARIATION

EXAMPLE OF STANDARD REFERENCE
EN 200 chap. 12.2
EN 817 chap. 12.2
EN 1111:2017 chap. 16.6
ASME A112.18.1-2018/
CSA B125.1-18 chap. 5.6.1.5

CODE: EFCO1 FLOW CONTROL ENDURANCE TEST

sw: AQ2TB-LR-ENCSA
sw: AQ2TB-LCD-ENCSA
sw: AQ2TB-LPC-ENCSA



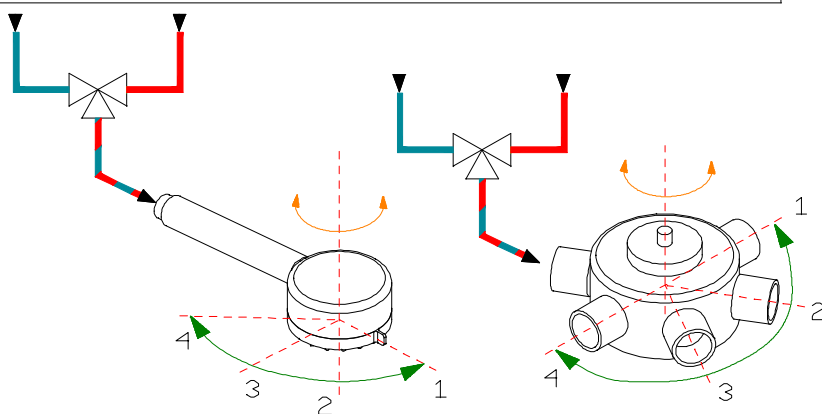
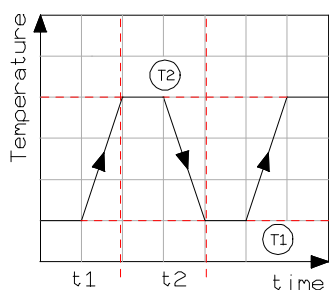
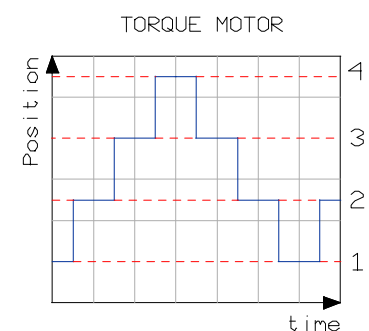
CONTROL AND ACQUISITION OF:

- ANGULAR POSITION
- TORQUE
- WATER SUPPLY TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
EN 200 chap. 12.1
EN 1111:2017 chap. 16.2/3/4
ASME A112.18.1-2018/
CSA B125.1-18 chap. 5.6.3

CODE: EMWSO1 MULTIWAY SELECTOR ENDURANCE TEST

sw: AQ2TB-LMWSENCSA



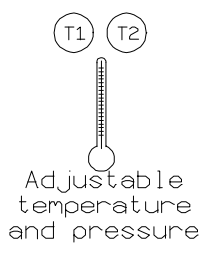
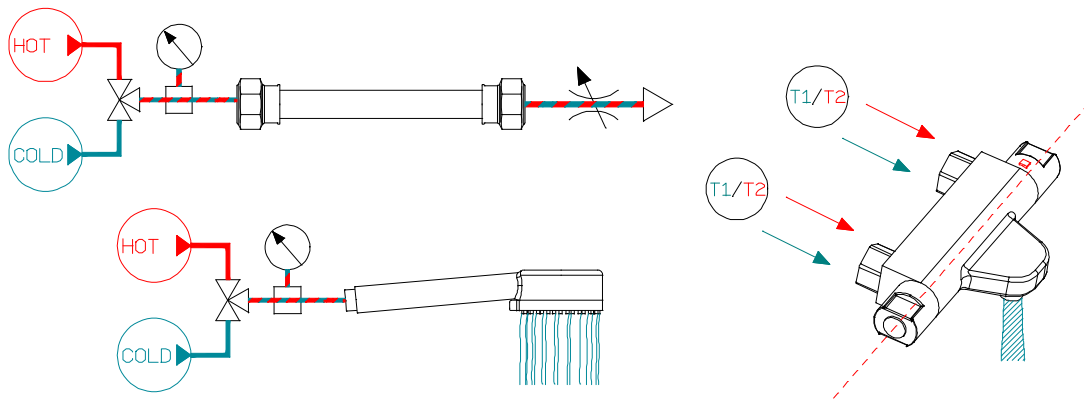
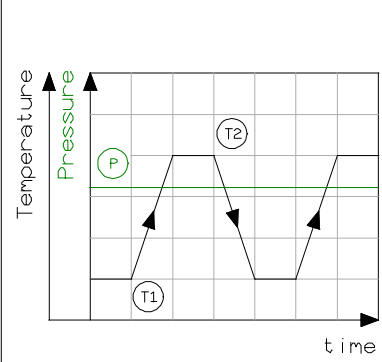
CONTROL AND ACQUISITION OF:

- ANGULAR SPEED
- TORQUE
- MIXED WATER TEMPERATURE

EXAMPLE OF STANDARD REFERENCE
ASME A112.18.1-2018/
CSA B125.1-18 chap. 5.6.1.4

CODE: TSO1 THERMAL SHOCK TEST

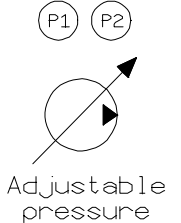
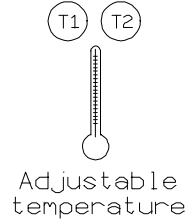
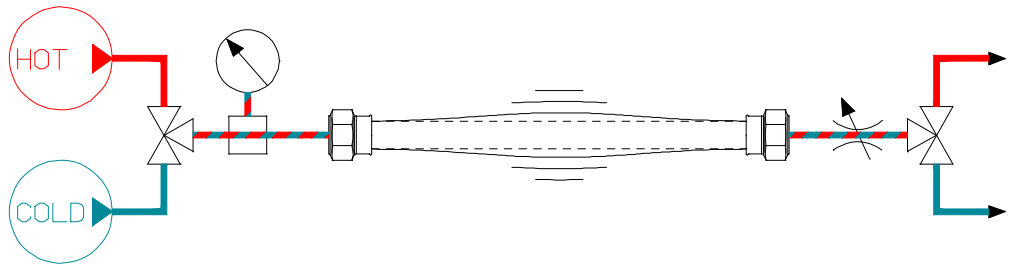
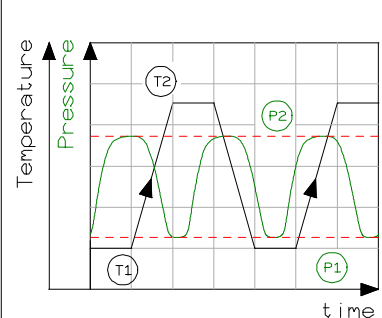
sw: AQ2TB-1LD-H&C



TEST RANGE
PRESSURE: 1 - 5 bar
TEMPERATURE: 15 - 80 °C
FLOW: 2 - 80 L/min
STANDARD REFERENCE
EN 1112 chap. 10.3
EN 1113 chap. 9.6
NF 079 doc. 8 chap. 12

CODE: P03-TC CYCLING PRESSURE + THERMAL SHOCK

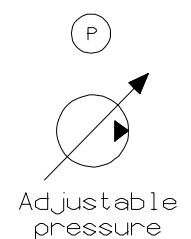
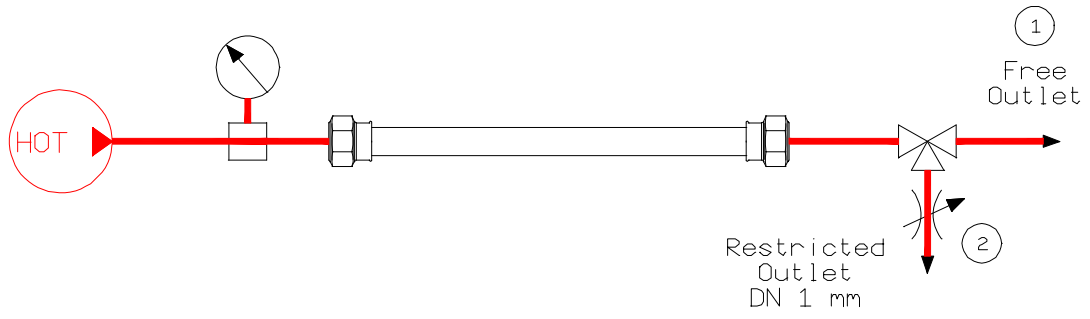
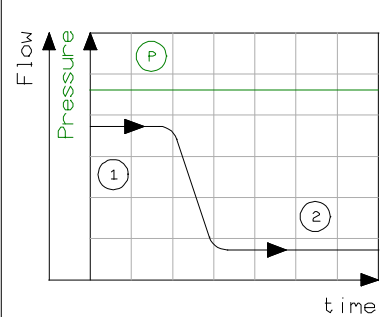
sw: AQ2TB-CYCLEAUT



TEST RANGE
PRESSURE: 1 - 14 bar
TEMPERATURE: 10 - 95 °C
FLOW: 2 - 50 L/min

CODE: PRH01 PRESSURE RESISTANCE AT ELEVATED TEMPERATURE TEST

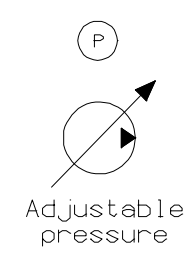
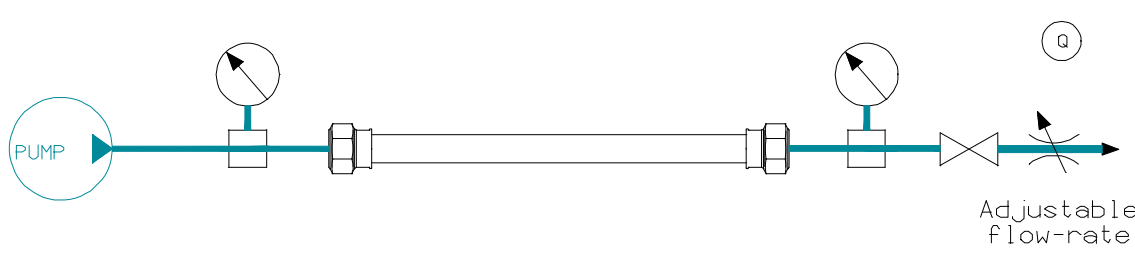
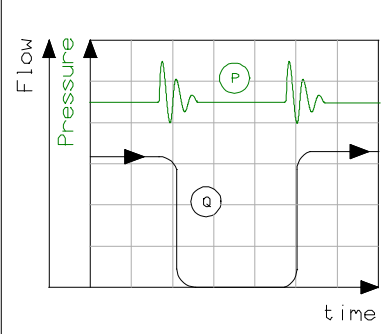
sw: AQ2TB-LSH



TEST RANGE
PRESSURE: 1 - 3 bar
TEMPERATURE: 70 °C
FLOW: 1 - 6 L/min
STANDARD REFERENCE
EN 1113 chap. 9.4

CODE: WHB01 WATER HAMMER TEST NBR 14878

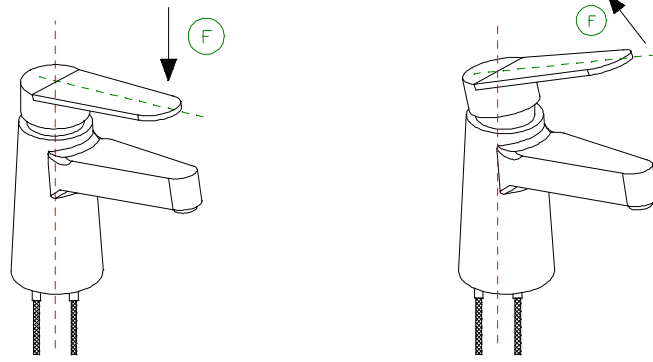
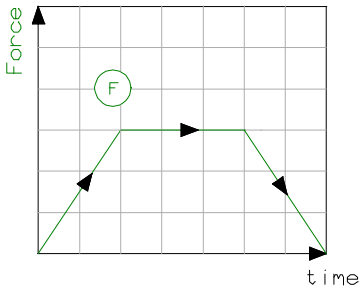
sw: AQ2TB-NBR14878D



TEST RANGE
PRESSURE: 4 bar
TEMPERATURE: up to 65 °C
FLOW: adjustable
STANDARD REFERENCE
NBR 14878 annex D

CODE: TTO1 TORSION TEST

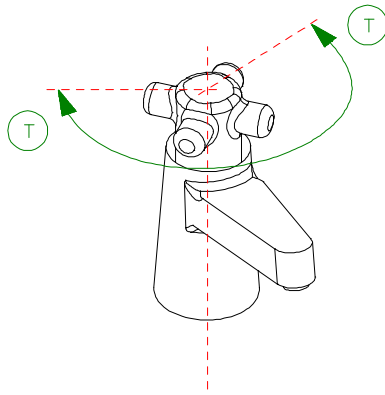
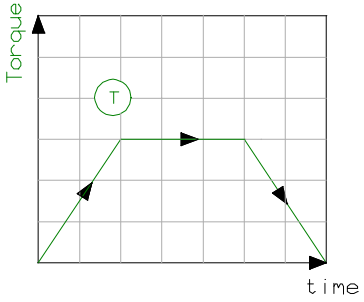
AQ2TB-COMBI-FM
AQ2TB-COMBI-LM



STANDARD REFERENCE
EN 817 chap. 11

CODE: TT02 TORSIONAL RESISTANCE TEST

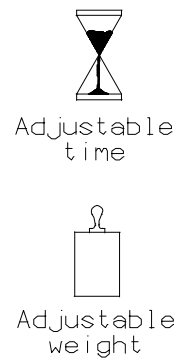
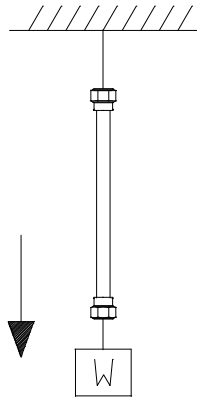
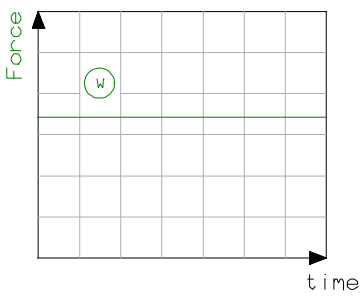
AQ2TB-COMBI-RM



STANDARD REFERENCE
EN 200 chap. 11
EN 1111 chap. 15.2.3

CODE: TST01 TENSILE STRENGTH TEST

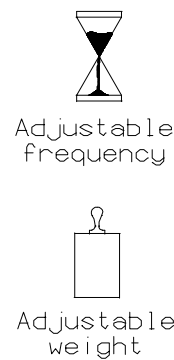
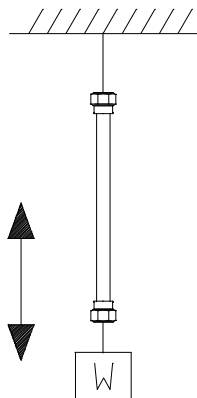
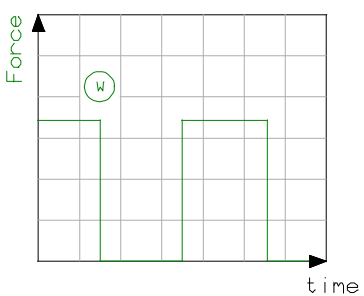
without software



STANDARD REFERENCE
EN 1113 chap. 9.2
EN 16146 chap. 9.2

CODE: TSC01 TENSILE CYCLING TEST

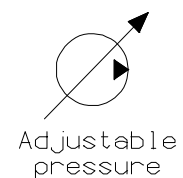
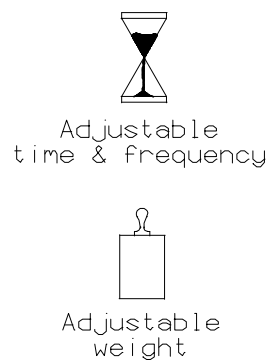
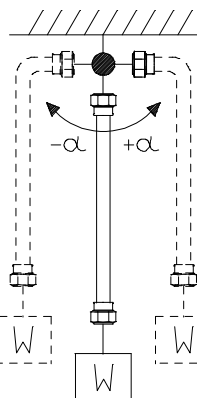
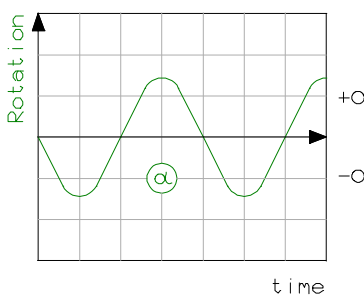
without software



STANDARD REFERENCE
ASME A112.18.1-2018
CSA B125-1.18
Chap. 5.6.3.5

CODE: RFL01 FLEXING DURABILITY TEST

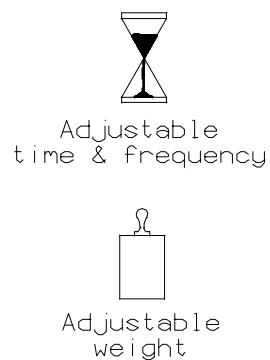
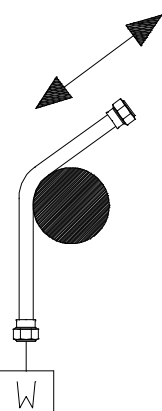
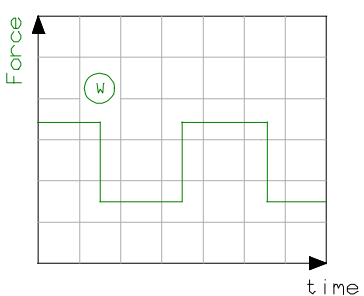
without software



STANDARD REFERENCE
EN 1113 chap. 9.3
EN 16146 chap. 9.3

CODE: RDO1 DURABILITY TEST

without software



STANDARD REFERENCE
EN 16146 chap. 9.4