Giussani, founded in 1947, started his activity by manufacturing thermometers and electronic devices, then the necessity of calibrating and testing its own products forced Giussani to internally develop testing systems acquiring a specific know how.

This second activity during the years became the most important.

The company has been developing and producing more than 500 test benches for simulation and measuring temperature, pressure and electronic signals by producing more and more complex and advanced models.

30 years ago Giussani started the production of the first test bench for sanitary taps, during the last years the Company installed more than 320 test benches in the World.

Giussani currently manufactures a complete line of hydraulic test benches to measure the performance and to test the endurance of many components: sanitary taps, showers and accessories, fittings, valves, pipes, heat exchangers etc..

Please feel free to contact us for further information and in case you have special requirements.
Sanitary taps test benches

BPR-SWG50  BPR-SWG100
SANITARY TAPS TEST BENCH
- **SWG50**: Flow-rate 50+50 L/min, max. pressure 6 or 10 bar.
- **SWG100**: Flow-rate 100+100 L/min, max. pressure 6 or 10 bar.
It is possible to test single taps, single lever mixers, thermostatic mixers, shower units, flexible hoses, etc...

TESTS PERFORMED
- Measurement of flow rate, pressure and temperature.
- Measurement of safety characteristics.
- Measurement of regulating characteristics.
- Automatic test to check thermostats with 1 or 2 stations.

KAW510+ Hot (40÷95 °C) and cold (7÷25 °C) water production unit with flow rate 10+10 L/min and closed circuit.

BPR-SWG-2TP
CARTRIDGE AND MIXERS TEST BENCH
- 2 working stations.
- Productivity: approx. 80 pieces per hour with the presence of one operator.
- Automatic control of pressure, minimum and maximum temperature, mixed, closure of cold and hot water and final restoration.
- Computerized management of tests and database.
- KAW 510+ external hot and cold water production unit.

BPR-SWG50 + opz-HP e opz-C
SANITARY TAPS TEST BENCH
- Complete version suitable to detect the hydraulic performance of the devices under test.
- Hydraulic bench to perform laboratory test on sanitary taps.
- Independent station for high pressure test: water hammer test and resistance to static pressure.
- Handling device for fidelity and sensitivity tests.
- KAW510+ hot and cold water generator.

BPDS
DRAIN DEVICES TEST BENCH
The bench allows to perform flow-rate tests up to 200 L/min and pressure tests according to EN274-2 Standards.

TESTS PERFORMED:
- Flow-rate tests on floor drains, siphons, channel drain and overflow devices.
- Pressure tests on floor drains and siphons.
ENDURANCE TEST DEVICES

- Single lever mixers.
- Ceramic and traditional single taps.
- Traditional and automatic diverters.
- Shower mechanisms.
- Swivel spouts.
- Thermostatic mixers.

**BPR-2L-M-B-SWG**
HYDRAULIC BENCH FOR ENDURANCE TESTS
Test bench with two independent stations adapt to perform endurance test on sanitary tapware and thermostatic mixers.

TESTS PERFORMED:
- Single lever mixers.
- Swivel spouts.
- Ceramic or traditional single taps.
- Diverters.
- Shower mechanisms.
- Thermostatic mixers
- Fidelity and sensitivity tests.

**BP-RUMORE**
ACOUSTIC TEST BENCH
- Noise tests performed in compliance with standard NF 31-014 annex-C, test rig is designed according to ISO 3822 Standards.
- Mobile trolley with test pipe incorporated and detection devices + pressure pump.
- Measurement of noise by hydrophone + work station is integrated with dedicated software.
- Hydraulic resistance kits available.

**BPRD-2C(100-10)**
SHOWER COLUMN, SHOWER HEAD AND BODY JET TEST BENCH
- Cabinet for testing showers and shower columns.
- Working tank for flow-rate test on sanitary taps, single lever mixers and kitchen sprays.
- 5 independent test stations.
- Specific software for flow-rate tests with step pressure increase and flow-rate tests with linear increase of pressure and multi-trace graphs.
Test benches for hydraulic devices (flexible hoses, tubes, valves, heat exchangers, etc...)

**BPF-Q300-8-HT**
FLOW-RATE TEST BENCH
- Flow-rate tests with operating range up to 300 L/min and maximum pressure up to 8 bar.
- Evaluation of pressure loss generated by the device under test and calculation of Kv coefficient.
- Temperature of the supply water is adjustable from ambient to 90 °C.

**BPF200-SIC-HT-HC**
FLEXIBLE HOSES TEST BENCH
The BPF series test benches make it possible to perform tests to measure the hydraulic features in real operating conditions on flexible hoses and accessories by checking the temperature of water (from ambient to 90 °C) and test chamber (from ambient to 120 °C).

TESTS PERFORMED
- Static pressure tests and burst tests with hot or cold water.
- Ageing tests.
- Pulsing pressure tests with hot or cold water.
- Cycling pressure tests with hot or cold water and with or without water circulation.

**BPF-T-3000-SWG**
FLEXIBLE HOSES, FITTINGS AND PIPES TEST BENCH
The test benches of the BPF-T series have been designed to carry out tests to measure the hydraulic features in real operating conditions and life tests on flexible hoses, rigid pipes, multilayer pipes and fittings.

TESTS PERFORMED
- Hydraulic burst tests with maximum pressure 200 bar.
- Static pressure tests: 0÷200 bar.
- Water hammer resistance tests 0÷100 bar, 2 Hz.
- Thermal cycles 10÷93 °C.
- Flow rate tests 0÷100 L/min.

**BPF350-SI**
BURST PRESSURE TEST BENCH
The bench allows to perform pressure tests to evaluate the sealing and the burst pressure of the device under test.
- Maximum burst pressure: 350 bar.
- Adjustable pressure increase.
- Continuous recording of pressure and volume within the device under test.