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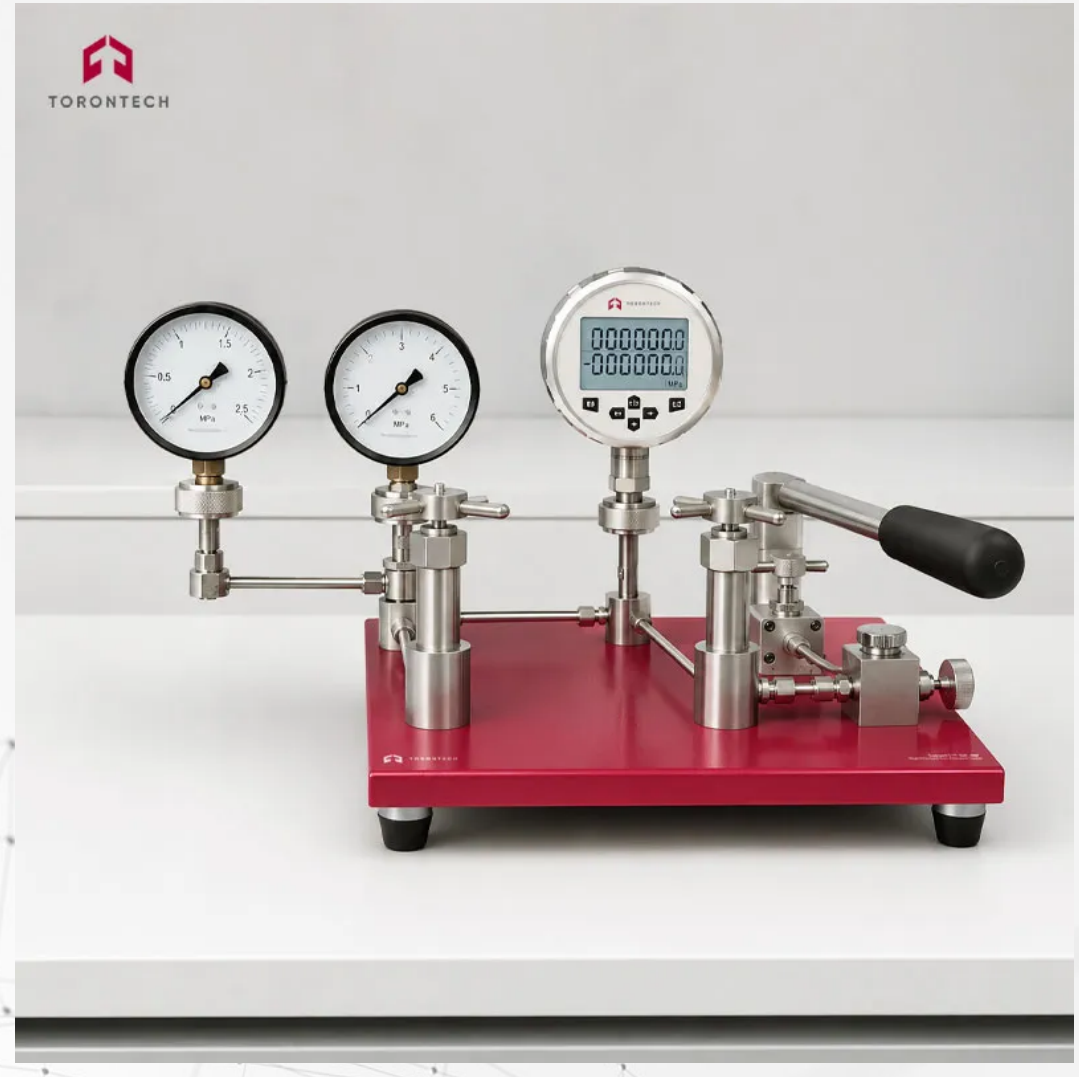


GAS PRESSURE CALIBRATOR

Gas Pressure Calibrator — ToronFT™ GP-C

ToronFT™ GP-C Gas Pressure Calibrator is a precision pneumatic pressure source and calibration instrument designed to generate, regulate, and apply stable high-pressure gas across a wide range (from −0.1 MPa (vacuum) to 10 MPa) using air as the pressure medium. Constructed from imported stainless steel connecting pipes and quick connectors, the ToronFT™ GP-HP features an open overall structure that is easy to operate and maintain, and minimizes the risk of leakage.

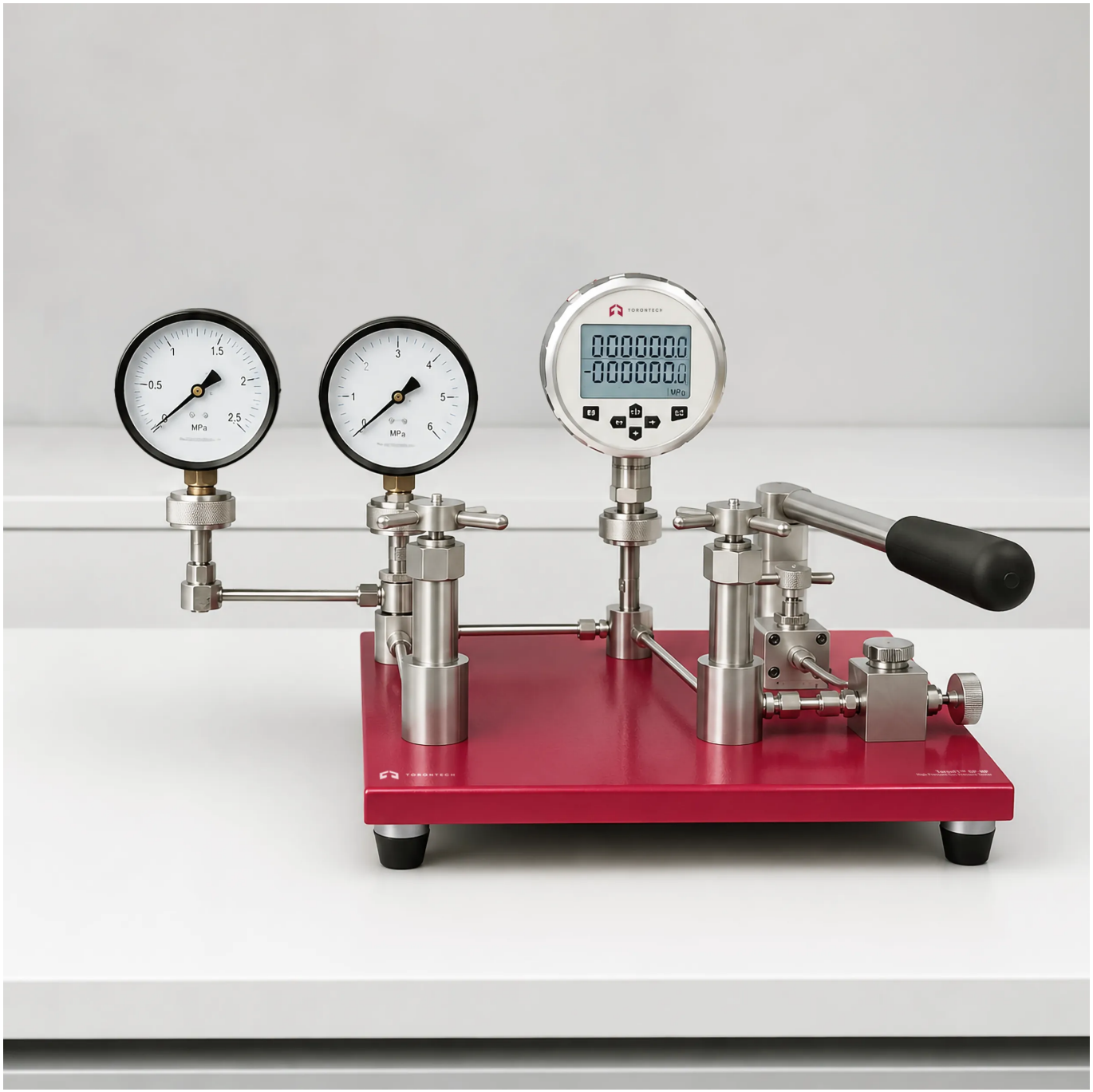
The lever-type mechanism of the high pressure gas pressure tester provides fine, precise pressure generation capability across the full range, including the ability to generate negative pressure (vacuum). Equipped with sufficiently long connecting hoses and transition joints, and featuring a back-intake, directly exhausting valve located at the meter being inspected, the ToronFT™ GP-HP prevents pollutants from entering and contaminating the pump body — ensuring clean, reliable gas pressure generation for the life of the instrument.

APPLICATIONS

Gas Pressure Calibrator — ToronFT™ GP-C Applications

- Pressure transmitter and differential pressure transmitter calibration: on-site and laboratory calibration of industrial pressure sensing devices
- Precision pressure gauge calibration: verification and adjustment of high-accuracy pressure gauges across the full working range
- Ordinary pressure gauge testing: production-line and periodic re-calibration of standard industrial pressure gauges
- Micro pressure and vacuum pressure instrument calibration: generating stable sub-atmospheric and vacuum reference pressures
- Fire extinguishing system pressure instrument calibration: calibration of pressure gauges and transmitters on gas fire suppression systems

- General laboratory pressure source: providing a stable, portable gas pressure supply for research and quality assurance applications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FEATURES

Gas Pressure Calibrator — ToronFT™ GP-C Key Features

- Wide pressure generation range: −0.1 MPa (vacuum) to 10 MPa — covering fine vacuum through high-pressure gas instrument calibration
- Pressure medium: air — clean, safe, and widely available; no liquid or hazardous gas required
- Lever-type pump mechanism: small resolution, light pressure generation effort, high pressure capability, and negative pressure (vacuum) generation
- Imported stainless steel connecting pipes and quick connectors — durable, leak-resistant construction for long service life
- Open overall structure: easy to operate, maintain, and inspect; minimizes leakage risk
- Back-intake directly exhausting valve at the meter location — pollutants are exhausted directly, preventing pump body contamination
- Long connecting hoses and transition joints — flexible routing for diverse calibration configurations
- Stability: better than 0.02% F.S. — ensuring repeatable, traceable calibration-grade pressure output
- Pressure interfaces: 2× M20×1.5 quick interfaces — no wrench required for connection or disconnection
- Compact form factor: 370 mm × 310 mm × 130 mm — portable for on-site calibration and laboratory use

THEORY & METHOD

Theory and Method

The ToronFT™ GP-C uses a lever-actuated pump mechanism to compress air within its stainless steel hydraulic circuit, generating stable, controllable gauge pressures from −0.1 MPa (vacuum) to 10 MPa. The lever design provides the

mechanical advantage needed to achieve high pressures with low operator effort, while the small resolution of the mechanism allows fine, incremental pressure adjustment for precise calibration work.

The back-intake, directly exhausting valve is positioned at the pressure outlet — at the location of the meter being inspected — ensuring that exhaust gases exit directly at the measurement point rather than recirculating through the pump body. This arrangement keeps the pump internals free from process contaminants, extending pump service life. The long connecting hoses and transition joints allow flexible routing between the pressure source and the instrument under calibration, accommodating a wide range of installation configurations without introducing bending stresses at the connection interfaces.

TECHNICAL SPECIFICATIONS

Gas Pressure Calibrator — ToronFT™ GP-C Technical Specifications

Parameter	Specification
Model	ToronFT™ GP-C
Pressure Range	-0.1 MPa ~ 10 MPa
Pressure Medium	Air
Pump Mechanism	Lever type
Stability	Better than 0.02% F.S.
Pressure Interfaces	2× M20×1.5 quick interfaces (no wrench required)
Connecting Pipes	Imported stainless steel with quick connectors
Overall Dimensions (L×W×H)	370 mm × 310 mm × 130 mm

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