

pressure



FUNCTIONAL SPECIFICATIONS

Pressure range

Pump 15,000 psi / 1,000 bar

Gauge 10,000 psi / 700 bar

Model dependent

Accuracy $\pm 0.025\%$ of gauge span

10,000 psi/700 bar $\pm 0.50\%$ of gauge span

Pressure Source - Lever action, hand-actuated,
dual volume hydraulic pump

Medium Distilled water/alcohol mix

Optional - AAA oil - specify when ordering

Reservoir capacity 1.23 l / 75 in³

Displacement High range:

..... 2.8 to 3.2 cm³/0.17 to 0.20 in³ per stroke

Displacement Low range:

0.30 to 0.40 cm³/0.018 to 0.024 in³ per stroke

O-rings Buna N

Optional - EPT or Viton - specify when ordering

Test connections .. 1/4" NPT, 1/2" NPT, 7/16 UNF

With metric models 1/4" BSP and 1/2" BSP

Engineering units psi, kg/cm², bar, kPa

Complete tester
in one case
with pressure source
and gauges

ISO 9001 Manufacturer

Specification Sheet
SS-Comparator Tester, Type T

Comparator Tester Type T



The AMETEK Comparators are ideal secondary standards for pressure measurement. The comparator test set consists of a hydraulic hand pump on a pan as the pressure source, a test manifold and a set of four 4.5 inch test gauges. Gauge PSIG span vary with model.

Pressure comparators are used as secondary pressure standards. They allow you to accurately and rapidly test pressure instrumentation by comparing the instrument on a pressurized test manifold with test gauges of known accuracy and span.

Type T Comparators feature hand-operated pumps with a manual dual volume control valve. The control valve delivers high volume to rapidly build pressure, and low volume for easy pumping and a gradual approach to the calibration point. The instrument features a test manifold with venier for controlling pump pressure.

AMETEK[®]
CALIBRATION INSTRUMENTS

PHYSICAL SPECIFICATIONS

Wetted parts..... Stainless steel, Monel, Brass, Ni-Span C (temperature compensated gauges only), Carbon Steel, Buna N

Weight 55 lbs / 24.95 kg

Overall dimensions (HxWxD)..... 16x20.625x11 in / 40.6x52.4x27.9 cm

ORDERING INFORMATION

Order Number	Description
Model	
T	Type T Comparator with Test Gauge, Pump, Tools and Carrying Case
Test Gauge and Range	
3	0-160 PSIG, 0-600 PSIG, 0-5,000 PSIG, 0-10,000 PSIG
3A	0-30 PSIG, 0-600 PSIG, 0-3,000 PSIG, 0-5,000 PSIG
3AM	0-2 kg/cm ² , 0-42 kg/cm ² , 0-210 kg/cm ² , 0-350 kg/cm ²
3AN	0-200 kPa, 0-4,000 kPa, 0-21,000 kPa, 0-35,000 kPa
3/Bar	0-11 Bar, 0-42 Bar, 0-350 Bar, 0-700 Bar
Sample order number	
T 3	Type T Comparator with range 0-160 PSIG, 0-600 PSIG, 0-5,000 PSIG, 0-10,000 PSIG, complete with hand pump, tools and carrying case



AMETEK Calibration Instruments

is one of the world's leading manufacturers and developers of calibration instruments for temperature, pressure and process signals as well as for temperature sensors both from a commercial and a technological point of view.

JOFRA Temperature Instruments

Portable precision thermometers. Dry-block and liquid bath calibrators: 5 series, with more than 25 models and temperature ranges from -90° to 1205°C / -130° to 2200°F. All featuring speed, portability, accuracy and advanced documenting functions with JOFRACAL calibration software.

JOFRA Pressure Instruments

Convenient electronic systems ranging from -25 mbar to 1000 bar (0.4 to 15,000 psi) - multiple choices of pressure ranges, pumps and accuracies, fully temperature-compensated for problem-free and accurate field use.

JOFRA Signal Instruments

Process signal measurement and simulation for easy control loop calibration and measurement tasks - from handheld field instruments to laboratory reference level bench top instruments.

JOFRA / JF Marine Instruments

A complete range of calibration equipment for temperature, pressure and signal, approved for marine use.

FP Temperature Sensors

A complete range of temperature sensors for industrial and marine use.

M&G Pressure Testers

Pneumatic floating-ball or hydraulic piston dead weight testers with accuracies to 0.015% of reading.

M&G Pumps

Pressure generators from small pneumatic "bicycle" style pumps to hydraulic pumps generating up to 1,000 bar (15,000 psi).

*...because calibration is
a matter of confidence*

AMETEK®
CALIBRATION INSTRUMENTS

Sales & Service:
Europe, Asia, Africa, Middle East and South America

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