

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 in<sup>3</sup>

Displacement High range:

..... 2.8 to 3.2 cm<sup>2</sup>/0.17 to 0.20 in<sup>3</sup> per stroke

Displacement Low range:

0.30 to 0.40 cm<sup>2</sup>/0.018 to 0.024 in<sup>3</sup> 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/cm<sup>2</sup>, bar, kPa

Complete tester  
in one case  
with pressure source  
and gauges

## 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.

ISO 9001 Manufacturer

Specification Sheet  
SS-Comparator Tester, Type T

**AMETEK**<sup>®</sup>  
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
	<b>Model</b>
T	Type T Comparator with Test Gauge, Pump, Tools and Carrying Case
	<b>Test Gauge and Range</b>
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 <sup>2</sup> , 0-42 kg/cm <sup>2</sup> , 0-210 kg/cm <sup>2</sup> , 0-350 kg/cm <sup>2</sup>
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
	<b>Sample order number</b>
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 Denmark A/S**  
Gydevang 32-34 | 3450 Allerød | Denmark  
T: +45 4816 8000 | ametek@ametek.dk

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

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**AMETEK Mansfield & Green (North America)**  
T: +1 800 527 9999 | cal.info@ametek.com

**AMETEK Singapore Pte. Ltd. (Singapore)**  
T: +65 6 484 2388 | aspl@ametek.com.sg

**AMETEK Inc. Beijing Rep. Office (China)**  
T: +86 10 8526 2111 | jofra@ametek.com.cn

**AMETEK GmbH (Germany)**  
T: +49 2159 9136 510 | info.mct-de@ametek.de

**AMETEK Calibration Instruments (UK)**  
T: +44 (0) 1243 833 302 | jofra@ametek.co.uk

**www.jofra.com**