3D PRECISION TEST GAUGE





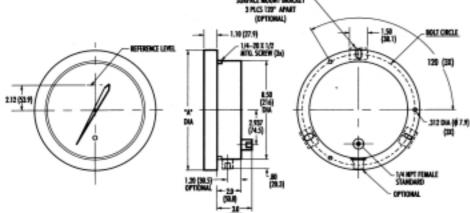
The Best Precision Test Gauge For Your High Accuracy Requirements

Features

- High accuracy 0.1% of span
- Repeatability 0.02% of span
- Hysteresis 0.1% of span (or less)
- Inherent temperature compensation from: -25 °F (-32 °C) to +125 °F (+52°C)
- 120% full scale pressure with no calibration shift
- 200% full scale pressure without damage
- Corrosion resistant materials
- Linear dials, span micro-adjust and zero reference adjust allow component replacement and simplify recalibration
- Easy reading high resolution 3D dial in soft green and white with a mirror band to eliminate parallax error
- 5 year warranty

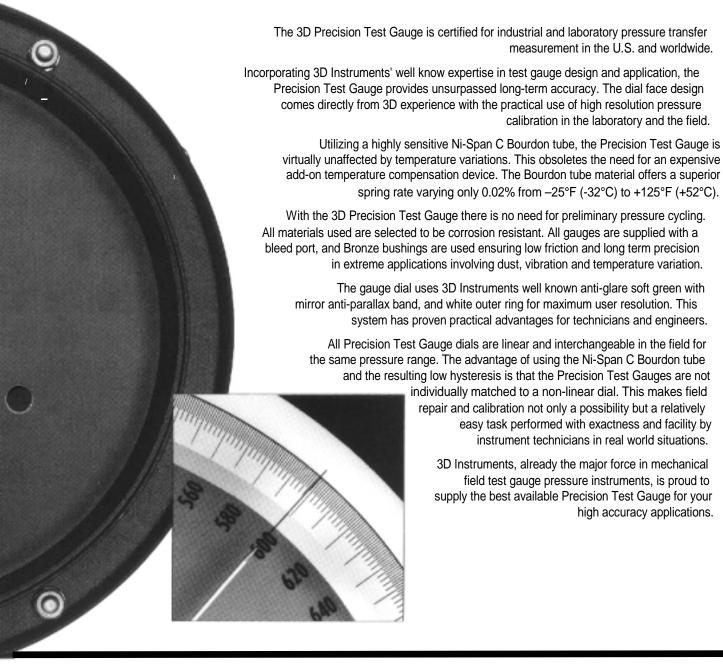


Panel Mount

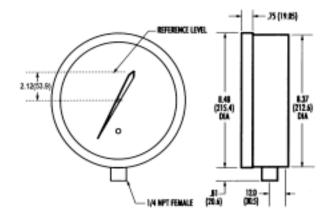


| MODEL | SIZE | 'A' DIAMETER | BOLT CIRCLE DIAMETER | | | |
|---|--------------|------------------|-------------------------|--|--|--|
| 25 X 16 | 8.5 (216m m) | 10.312 (261.9mm) | 9.375 (238.2mm) | | | |
| 25 X 17 | 12 (305mm) | 13.687 (347.7mm) | 12.750 (323.9mm) | | | |
| 25 X 18 | 16 (406mm) | 17.810 (452.4mm) | 16.750 (425.4mm) | | | |
| PANEL CUT OUT FOR ALL SIZES IS 8.75 (222.3) | | | | | | |
| ALL DIMENSIONS ARE IN INCHES (MM) | | | | | | |

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Stem Mount





Precision Test Gauge Specifications

Precision Test Gauge Accuracy - 0.1% of span This accuracy statement includes repeatability, linearity and hysteresis, obtained by calibration with pressure standards traceable to NIST

Calibration Points - 12 points up scale and 12 down scale
Overpressure - 120% of span without calibration shift
200% of span without damage

Repeatability - 0.02% of span

Hysteresis - .1% span or less

Measurand Fluid - gauges are calibrated with air (up to 1,000 psi) or distilled water (up to 10,000 psi), Other fluids compatible with Ni Span C, 300 series stainless steel and Buna-N may be used. Gauges may be oxygen cleaned.

Needle Movement - 310°

Temperature - 25°F (-32°C) to 125°F (+52°C) operating ambient

Warranty - 5 years

The lowest full scale pressure is 15 psi (1 bar), the highest full scale pressure is 10,000 psi (660 bar) or the equivalent in other pressure units. These ranges are available in PSIG, PSIA, INCHES OF MERCURY, and MILLIMETERS OF MERCURY. Other ranges and pressure units are available on request.

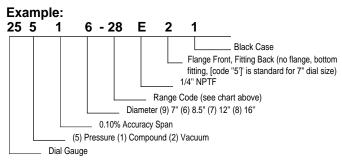
| Gauge Diameter | Model Number | Standard Fittings (1) | Mounting | Net Weight (lbs.) | Shipping Weight (lbs.) |
|-------------------|-----------------|--------------------------|----------|----------------------|---------------------------|
| 7 | 25X19 | Bottom | *Stem | 4 (1.8 kg) | 11 (5.0 kg) |
| 85 | 25X16 | Lower Back | Panel | 5 (2.2 kg) | 12 (5.5 kg) |
| 12 | 25X17 | Lower Back | Panel | 7 (3.2 kg) | 14 (6.4 kg) |
| 16 | 25X18 | Lower Back | Panel | 12 (5.5 kg) | 20 (9.0 kg) |

*Front flange available as an option. Consult factory

| Code | Standard | Increments | Sub- | Gauge |
|----------|---------------|------------|-----------|------------|
| | Range | increments | divisions | Diameter |
| 15 | 0-15 psi | 750 | .02 | 7,8.5, 12 |
| | | 1500 | .01 | 16 |
| 21 | 30 psi | 600 | .05 | 7, 8.5, 12 |
| | | 1500 | .02 | 16 |
| 22 | 60 psi | 600 | .10 | 7, 8.5, 12 |
| | | 1200 | .05 | 16 |
| 23 | 1 00 psi | 1000 | .1 | All |
| 24 | 150 psi | 750 | .2 | 7, 8.5, 12 |
| | | 1500 | .1 | 16 |
| 25 | 200 psi | 1000 | .2 | All |
| 26 | 300 psi | 600 | .5 | 7, 8 5, 12 |
| | | 1500 | .2 | 16 |
| 51 | 400 psi | 800 | .5 | All |
| 27 | 500 psi | 1000 | .5 | All |
| 28 | 600 psi | 600 | 1 | 7, 8.51 12 |
| | | 1200 | .5 | 16 |
| 53 | 800 psi | 800 | 1 | All |
| 29 | 1000 Psi | 1000 | 1 | All |
| 31 | 1 500 psi | 750 | 2 | 7, 8.5, 12 |
| 31 | 1 500 psi | 1500 | 1 | 16 |
| 32 | 2000 psi | 1000 | 2 | All |
| 33 | 3000 psi | 600 | 5 | 7,8.5, 12 |
| 33 | 3000 psi | 1500 | 2 | 16 |
| 34 | 4000 psi | 800 | 5 | All |
| 35 | 5000 psi | 1000 | 5 | All |
| 36 | 6000 psi | 600 | 10 | 7, 8.5, 12 |
| | 1 | 1200 | 5 | 16 |
| 37 | 8000 psi | 800 | 10 | All |
| 38 | 10000 psi | 1000 | 10 | All |
| | | - VACUUM | | |
| 15 (AAU) | 15-0 psi | 750 | .02 | 7, 8.5, 12 |
| | | 1500 | .01 | 16 |
| 15 | 30-0 in / hg | 600 | .05 | 7, 8 5, 12 |
| | | 1500 | .02 | 16 |
| 15 (AAQ) | 800-0 mm / hg | 800 | 1 | All |
| | | | | |
| | | | | |

Ordering Information

3D 1/10% Precision Test Gauges can be ordered by building a part number as follows:



NOTE: (1) Standard fittings are female 1/4" NPT Other fittings are optional.

An ISO 9000



Instruments, Inc.

Direct Drive Difference

Registered Company