

TLG PROCESS GAUGES

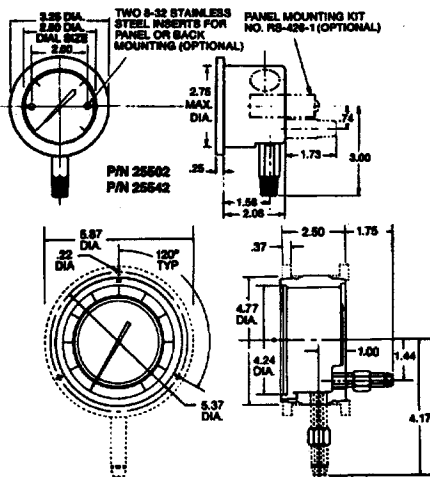
Process Gauges TLG "Tough Little Gauge"

3D Process Gauges are called TLG's for "Tough Little Gauge" Small wonder, our process gauges are designed specifically for the toughest conditions in your process. Typically a 3D TLG can last 4-10 times longer than a standard gauge, even if the standard gauge has been liquid filled. The "Tough Little Gauge" is available in diameters of: 2-1/2", 4-1/2", and 6". The 'Dyna-Mount' 4-1/2" TLG is standard with a special swivel fitting and moveable flange. The gauge can be changed to front or back flange and bottom or back mount (except 30 psi) in the field with no more than a screwdriver Standard accuracies are 0.5% mid-scale. Pressure ranges available are from vacuum to 20,000 psi.

The 3D TLG, one "Tough Little Gauge."

Pressure Range (psig)	Major Figure Interval (psig)	Major Graduation (psig)	Minor Graduation (psig)
0-30	5	1	0.2
0-60	5	1	0.5
0-100	10	5	1.0
0-150	10	5	1.0
0-200	20	10	2.0
0-250	20	10	2.0
0-300	50	10	2.0
0-500	50	10	5.0
0-500	50	10	5.0
0-1000	100	50	10.0
0-1500	100	50	10.0
0-2000	200	100	20.0
0-3000	500	100	20.0
0-4000	500	100	50.0
0-5000	1000	500	50.0
0-6000	1000	500	50.0
0-10000	1000	500	100.0
0-15000	1500	500	100.0
0-20000	2000	1000	100.0
30" Hg - 0 Vac	5	5	0.5

Dimensions



Process & Test Gauge Specifications

Pressure Ranges:
0-30 psig to 0-20,000 psig equivalent ISO and Metric Scales

Compound Ranges:
30" Hg/0-30 psig to 30" Hg/0-300 psig

Receiver Gauges:
3-15 psig or 3-27 psig linear or square root scales

Proof Pressure without calibration shift:
150% of maximum rated pressure

Burst Pressure: 500% of Scale Pressure*

Operating Media:
Any media suitable for contact with stainless steel/Inconel.

Calibration: Vertical as standard.

Accuracy:
Process - ± 0.5% of span at mid-range, ± 1.0% overall

Test - + 0.25% or + 0.50% of span.
No tapping required ⊕, includes all friction, hysteresis, and linearity variations.

Response Time:
Approximately 100ms from 0 to full scale (gas service)

Ambient Temperature:
- 65°F to + 190°F (- 54°C to + 88°C)

Service Media Temperature:
- 65°F to + 400°F (- 54°C to + 204°C)

Higher temperatures allowable depending on installation.

Life:
250,000 cycles minimum to 1,000,000,* 80% of full scale.

Dial Sizes:
Process - 2-1/2" (64mm)
4-1/2" (114mm) 6" (152mm)
Test - 2-1/2" (64mm) 4-1/2" (114mm)
6" (152mm) 8-1/2" (216mm) 12" (305mm)

Repeatability: ± 0.025% full scale

Sensitivity: ± 0.025% full scale

Materials:
Case - ABS Plastic (std) SS (opt)
Dial, Capillary tube, fittings, screws, and rivets - Stainless Steel ⊕ ⊕
Sensing Element - Inconel X-750

Gauges conform to ANSI B40.1 1991 for "Gauges, Pressure and Vacuum. Dial Type, Elastic Element"

* Except on ultra high pressure (>10,000 psig)

** 2-1/2" Dial, Plastic

⊕ Except 30 PSI and Caisson Gauges

⊕ ⊕ 0.25% Accuracy Gauges are traceable to N.I.S.T.

Others available as an option.

Model No.	A	B	C	D	E	F	G	H	K	L	M	Panel
255*4	4.83 (122.7)	2.50 (63.5)	6.00 (152.4)	1.00 (25.4)	5.37 (136.4)	1.54 (39.1)	4.99 (126.7)	1.65 (41.9)	0.24 (5.6)	0.50 (12.7)	4.50 (114.3)	5.00 (127.0)
255*5	6.31 (160.3)	2.50 (63.5)	7.63 (193.8)	1.00 (25.4)	7.00 (177.8)	2.13 (54.3)	5.72 (145.3)	1.65 (41.9)	0.28 (7.1)	0.50 (12.7)	8.00 (203.2)	8.50 (215.9)
255*6	8.81 (223.8)	2.50 (63.5)	10.20 (259.1)	1.00 (25.4)	9.63 (244.6)	2.13 (54.3)	6.97 (177.0)	1.65 (41.9)	0.28 (7.1)	0.50 (12.7)	8.50 (215.9)	9.00 (228.8)
255*7	12.50 (317.5)	2.50 (63.5)	14.13 (358.9)	1.00 (25.4)	13.50 (342.9)	2.13 (54.3)	8.82 (224.0)	1.65 (41.9)	0.28 (7.1)	0.50 (12.7)	12.00 (304.8)	12.75 (323.9)

TEST GAUGES

Test Gauges

The 3D Test Gauge series gives you a choice of two different degrees of accuracy to match your application. All 3D accuracy figures are real: they include all friction, error, hysteresis, and linearity variations. And 3D gauges maintain their rated accuracy over the entire life of the gauge. With no gears or wear points there is no need for recalibration.

Every dial is clearly marked for fast, accurate reading with calibrations covering a 270° arc. Parallax is corrected on the test gauges by a neutral glare-free face and a corrosion resistant stainless steel dial, incorporating a polished mirror band. Our test gauges are easy to zero with a front mounted zero adjust screw, virtually the only adjustment necessary over the life of the gauge. 3D test gauges are ideal for field calibrations where rough service conditions cause the need for frequent recalibrations in lesser gauge technologies. 3D Test Gauges are available in; 2-1/2", 4-1/2", 6", 8-1/2", and 12" diameters. Accuracies available are 0.5% and 0.25% of span. A variety of case configurations and colors is provided so that you can match the exact pressure calibration instrument required for your service.

Pressure Range (psig)	Major Figure Interval (psig)	Minor Figure Interval (psig)	Major Graduation (psig)	Inter. Graduation (psig)	Minor Graduation (psig)
0-30	5	1	5	1	0.1
0-60	10	1	10	1	0.2
0-100	10	1	10	1	0.5
0-150	10	2	10	1	0.5
0-200	10	2	10	2	1.0
0-300	50	5	50	5	1.0
0-500	100	10	100	10	2.0
0-600	100	10	100	10	2.0
0-1000	200	20	100	10	5.0
0-1500	100	20	100	10	5.0
0-2000	100	20	100	20	10.0
0-3000	500	50	500	50	10.0
0-4000	500	100	500	100	20.0
0-5000	1000	100	1000	100	20.0
0-6000	1000	200	1000	50	50.0
0-10000	1000	200	1000	100	50.0
0-15000	1000	200	1000	100	50.0
0-20000	1000	500	1000	100	100.0
30" Hg - 0 Vac	10	1	10	1	0.2

Dimensions

