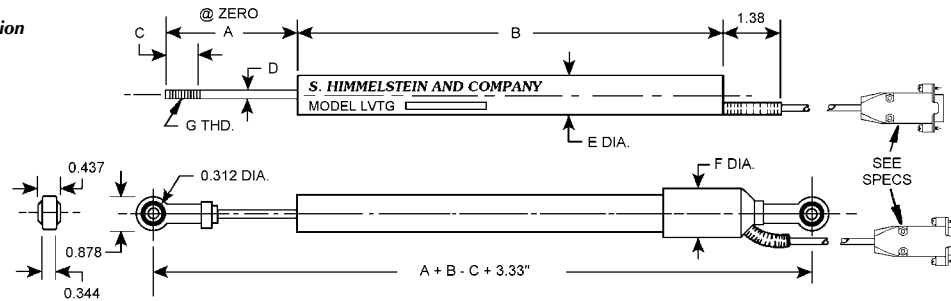


LVTG-6000 LONG STROKE DISPLACEMENT TRANSDUCERS

- ✓ ±0.6" to ±12" Ranges
- ✓ Stainless Steel Construction
- ✓ Sprung and Unsprung Construction



NOTE: ADD SUFFIX "J" FOR UNIVERSAL JOINT OPTION, ADD SUFFIX "S" FOR SPRUNG PLUNGERS. DIMENSIONS (EXCEPT "G") IN INCHES.

| DIMENSIONS (INCH) MODEL LVTG-6000- | | | | | | | |
|------------------------------------|-------|------|-------|-------|-------|-------|-------|
| | 600 | 1000 | 2000 | 4000 | 6000 | 10000 | 12000 |
| A (@ Zero) | 1.77 | 2.36 | 3.35 | 5.71 | 7.76 | 11.73 | 13.74 |
| B | 3.82 | 6.14 | 11.02 | 17.72 | 21.73 | 29.72 | 33.74 |
| C | 0.79 | 0.79 | 0.79 | 0.79 | 0.75 | 0.75 | 0.75 |
| D | 0.125 | 0.16 | 0.16 | 0.19 | 0.19 | 0.19 | 0.19 |
| E | 0.75 | 0.75 | 0.75 | 0.98 | 0.98 | 0.98 | 0.98 |
| F | 0.98 | 0.98 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 |
| G | M3 | M4 | M4 | M5 | M5 | M5 | M5 |

| DETAILED SPECIFICATIONS | MODEL LVTG-6000- | | | | | | |
|--|---|----------|----------|--------|--------|---------------|--------|
| | 600 | 1000 | 2000 | 4000 | 6000 | 10000 | 12000 |
| Linear Stroke (inch) | ±0.6 | ±1.0 | ±2.0 | ±4.0 | ±6.0 | ±10.0 | ±12.0 |
| Linear Stroke (mm) | ±15 | ±25 | ±50 | ±100 | ±150 | ±250 | ±300 |
| Spring Preload @ Zero (ounce) | 3.9 | 5.3 | 6.5 | 4.2 | 4.2 | Unsprung Only | |
| Spring Rate (ounces/10 mils) | 0.03 | 0.02 | 0.018 | 0.011 | 0.009 | Unsprung Only | |
| Body Weight/Armature Weight (ounce) | 2.1/0.35 | 3.4/0.63 | 6.0/0.88 | 21/1.9 | 32/2.8 | 46/3.7 | 56/4.3 |
| Nominal Sensitivity @ 5kHz (mV/V/millinch) | 0.84 | 0.51 | 0.24 | 0.13 | 0.081 | 0.053 | 0.043 |
| Nonlinearity (% of Full Range) | ±0.5 | | | | | | |
| Temperature Effects (% of Full Scale/°F) | ±0.0028 for Zero and ±0.0056 for Span | | | | | | |
| Operating Temperature Range (°F) | -40 to +212 | | | | | | |
| Termination | 4½ feet shielded cable with type D hooded connector; Option B, Bendix PC01W-106S connector. | | | | | | |
| Standard Connector Pinout | 1 = Shield 2 = NC 3 = -Sig. 4 = + Sig. 5 = NC 6 = + Exc 7 = + Sense 8 = -Sense 9 = -Exc. | | | | | | |
| Option B Connector Pinout | A = +Exc. B = Sig. C = -Sig. D = -Exc. F = NC | | | | | | |
| Cable to Model 704/744 LVDT Instruments. | Standard connector mates with Instrument; Option B connector requires P/N 224-4024V-20 cable. | | | | | | |

S. Himmelstein and Company Series LVTG-6000 displacement transducers have bidirectional strokes of 0.6 inches through 12 inches. Low friction bushings maintain centering between the plunger and housing. Coils are encapsulated and the housing and plunger are stainless steel. That provides excellent corrosion resistance and reduced thermal expansion errors. *Sprung* (plunger pushed outward) and *unsprung* versions are available. Optional universal joints accommodate rocking or side motions.

Complete Systems

We can furnish a complete displacement measurement system including sensors, cabling, readout and/or controller and NIST traceable system calibration. Himmelstein Model 704 single channel and Model 744 dual channel instruments are recommended. They feature superb signal conditioning with engineering unit displays, computation, tare, hold, max, min, spread, limits, serial ports and much more. See Bulletin 375 or contact the factory for details.

S. HIMMELSTEIN AND COMPANY

2490 Pembroke Avenue, Hoffman Estates, IL 60169, USA • Tel: 847/843-3300 • Fax: 847/843-8488