VAPOR ACTUATED REMOTE THERMOMETERS AND THERMOWELLS

SPECIFICATIONS

SIZES: 2, 2-1/2, 3-1/2, 4 and 4-1/2 inch

CASE MATERIAL: Brass or stainless steel (dry or liquid filled) **CONNECTION:** Bottom connection; back connection; lower back connection

OPTIONAL FILL FLUIDS: Glycerine, Glycerine-H2OD

and Silicone

MOUNTING OPTIONS: Front or rear flange, bezel & U-clamp RANGES: -40 °F/C to 60 °F/C through 50 °F/C to 400 °F/C CAPILLARY LENGTH & MATERIAL: Copper & stainless steel;

BULB MATERIAL & DIMENSIONS: Copper or stainless steel; 2-5/8 x 3/8 inch through 7 x 12 inch



REMOTE THERMOMETERS

NOSHOK VAPOR ACTUATED REMOTE THERMOMETERS operate using a temperature actuated liquid in the sensing element and a highly accurate, high quality pressure gauge to indicate media temperature. As the media temperature increases the capillary fill fluid vaporizes, causing an increase of pressure within the bourdon tube, and activates the movement and pointer for proper indication. Dial scale graduations are non linear, therefore, the highest degree of accuracy and readability is found in the upper half of the scale.

WARRANTY: One Year[†]

SPECIFICATIONS

MATERIALS: Brass. 304 stainless steel or 316 stainless steel

INSERTION: 1-5/8 inch to 22 inch BORE DEPTH: 2-1/2 inch to 24 inch PROCESS CONNECTION: 3/4 inch - STD: Others available upon request



THFRMOWFI IS

NOSHOK THERMOWELLS are recommended whenever the process being measured may be under pressure, is corrosive, abrasive or may be at a high velocity. They are also recommended as protection to the operator. The correct thermowell will reduce the possibility of damage to the temperature instrument and allows an instrument to be removed and replaced without shutting down and possibly draining the process. Standard thermowells are supplied with 1/2 inch NPSM instrument connection. The female thread will accept the 1/2 inch NPT male thread without galling or seizing.

WARRANTY: One Year[†]

HYDRAULIC LOAD CELLS

SPECIFICATIONS

NOMINAL DIAMETER: 6cm²

LOAD CELL HOUSING MATERIAL: Stainless steel **PISTON:** Stainless steel – STD; plastic – Optional **CONNECTING LINE:** 50mm adapter – STD; others available RANGES: From 150 lbs-force through 7,000 lbs-force

MEASURING INSTRUMENT

PRESSURE GAUGE: 2-1/2 inch 300 Series, one piece die cast brass case; dry or liquid filled

TRANSDUCER: 100, 200 or 615 Series transducer OUTPUT SIGNALS: 4 mA to 20 mA, 2-wire: 0 Vdc to 5 Vdc,

0 Vdc to 10 Vdc, 1 Vdc to 5 Vdc, 1 Vdc to 6 Vdc &

ACCURACY: ±0.125% Full Scale (B.F.S.L) to ±1.5% Full Scale OPERATING TEMP.: 14 °F to 122 °F (-10 °C to 50 °C)

1 Vdc to 11 Vdc, 3-wire **AMBIENT TEMP.:** -4 °F to 140 °F (-20 °C to 60 °C)



1000 SFRIFS

NOSHOK HYDRAULIC LOAD CELLS are engineered with a compact flat body design for use within control systems of spot welding machines, robots, printing machines and other compression force measurement applications. The stainless steel housing and piston provide for exceptional corrosion resistance and extended service life. Accuracy levels range from ±0.125% full scale (B.F.S.L) to $\pm 1.5\%$ full scale depending on the measuring instrument.

WARRANTY: One Year+; Three Year+ on liquid filled gauges & transducers

SPECIFICATIONS

NOMINAL DIAMETER: 20cm²

LOAD CELL HOUSING MATERIAL: Stainless steel PISTON: Stainless steel

CONNECTING LINE: Direct connection – STD; flexible tubing, capillary restrictor

RANGES: From 300 lbs-force through 22,000 lbs-force

MEASURING INSTRUMENT

PRESSURE GAUGE: 2-1/2 inch 300 Series, one piece die cast brass case; dry or liquid filled; 4 inch 901 Series stainless steel case; dry or liquid filled TRANSDUCER: 100, 200 or 615 Series transducer OUTPUT SIGNALS: 4 mA to 20 mA, 2-wire: 0 Vdc to 5 Vdc, 0 Vdc to 10 Vdc, 1 Vdc to 5 Vdc, 1 Vdc to 6 Vdc & 1 Vdc to 11 Vdc, 3-wire ACCURACY: ±0.5% Full Scale (B.F.S.L) to ±0.125%

Full Scale

OPERATING TEMP:: 14 °F to 122 °F (-10 °C to 50 °C) **AMBIENT TEMP.:** -4 °F to 140 °F (-20 °C to 60 °C)



2000 SERIES

NOSHOK HYDRAULIC LOAD CELLS are designed for measuring axial loads and bearing forces in turning and drilling machines, extruders, and other compression or tension force applications. The self adapting piston and housing are constructed of high grade, corrosion resistant stainless steel and are available in standard or ring form. A high quality, highly accurate NOSHOK pressure gauge or transducer is attached for measurement indication.

WARRANTY: One Year†; Three Year† on liquid filled gauges & transducers