

6 cm² Nominal Diameter Hydraulic Load Cell



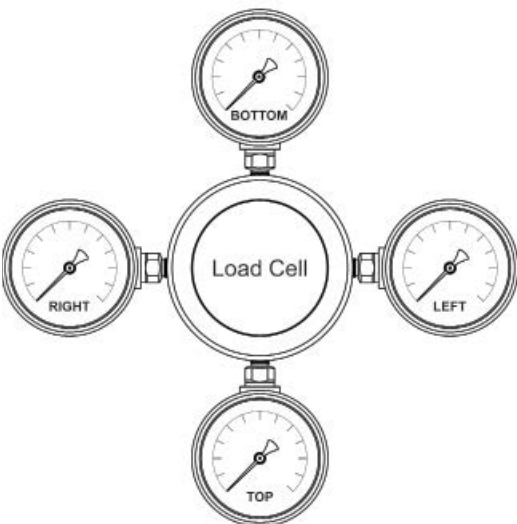
SERIES

- Compact flat body design for compression force measurement
- Ranges from 150 lb_f to 7,000 lb_f
- Accuracy levels range from ±0.125% full scale (BFSL) to ±1.5% full scale, depending on the measuring instrument
- Durable stainless steel housing and piston provide exceptional corrosion resistance and durability
- A high quality NOSHOK 300 Series pressure gauge or 100, 200 or 615 Series transducer is directly mounted to the load cell for precise measurement indication
- Operates without an external power supply when using a pressure gauge for indication
- Provides an extremely high degree of accuracy because the load cell is vacuum filled and sealed, eliminating the error that can be caused by entrapped air
- Steel jacketed flexible tubing and capillary systems are offered to accommodate applications that require remote mounting of the gauge or transducer
- An optional liquid filled gauge dampens the effects of pulsation, vibration and shock, and lubricates the gauge internals for extended service life
- Various output signals available in transducer models that are CE compliant

APPLICATIONS

- Spot welding
- Control the forces of the stamp on printing machines
- Control the forces between rollers on printing equipment
- Measure and control the forces between welding tongs on spot welding machines
- Control systems
- Robotic equipment
- Production lines
- Testing equipment

Instrument Connection



SPECIFICATIONS

Nominal diameter	ND 6
Load cell housing	Stainless steel
Piston	6 cm ² Stainless steel Optional plastic for welding brackets
Max piston stroke	0.02" (0.5 mm)
Connecting type	Connecting spacer, 50 mm - standard Connecting spacer, 100 mm - optional Flexible tubing with spiral steel jacket - optional (Max. length 1 m)
Gauge «ll -uid	Glycerin Others available upon request
Load cell «ll	Silicone
Operating temperature	14 °F to 122 °F (-10 °C to 50 °C)
Ambient temperature	-4 °F to 140 °F (-20 °C to 60 °C)

ORDERING INFORMATION				
LOAD CELLS	106P	ND 6 - Compression - plastic piston	106S	ND 6 - Compression - stainless steel piston
MEASURING RANGES	150A	150 lb _f	900A	900 lb _f
	400A	400 lb _f	1400A	1,400 lb _f
	750A	750 lb _f	2800A	2,800 lb _f
	Other ranges available, please consult factory.			
INSTRUMENTS	1	25-300 Series gauge	7	200 Series transducer
	6	100 Series transmitter	8	615 Series transducer
INSTRUMENT CONNECTIONS*	A	Bottom	C	Right side
	B	Top	D	Left side
			E	None**
25-300 SERIES GAUGE OPTIONS		100 SERIES TRANSMITTER OPTIONS		615 SERIES TRANSDUCER OPTIONS
0 No options 1 Dry gauge 2 Maximum indicating pointer 3 Set pointer 4 Rubber case protector 5 Glass overlay 6 Safety glass overlay	Accuracy		Accuracy	Accuracy
	1 0.50%		1 0.50%	1 0.25%
	2 0.25%		2 0.25%	2 0.125%
	Output		Output	Output
	1 4 mA to 20 mA		2 0 Vdc to 5 Vdc	1 4 mA to 20 mA
	Electrical Connection 1 Option 7 with 36" cable 3 6-pin Bendix 6 1/2" NPT conduit w/ 6" cable 7 Mini-Hirschmann 25 M12 x 1 (4-pin)		3 1 Vdc to 5 Vdc	2 0 Vdc to 5 Vdc
			5 0 Vdc to 10 Vdc	3 1 Vdc to 5 Vdc
			Electrical Connection	5 0 Vdc to 10 Vdc
			1 Option 7 with 36" cable	Electrical Connection
			3 6-pin Bendix	1 Option 8 with 36" cable
		6 1/2" NPT conduit w/36" cable	3 6-pin Bendix	
		7 Mini-Hirschmann	6 1/2" NPT conduit w/ 36" cable	
		25 M12 x 1 (4-pin)	8 Hirschmann	
			25 M12 x 1 (4-pin)	
CONNECTING TYPES	1 50 mm SS spacer		3 Capillary w/ spiral protective sleeve	
	2 100 mm SS spacer			
CAPILLARY LENGTH	## Specify in feet (for options 3 and 4)			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

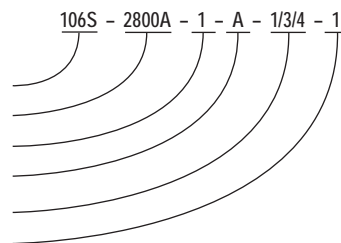
* Refer to Instrument Connection diagram on previous page.

** Not required for transmitters, switches, or any instrument other than a dial indicating gauge.

Note: Separate multiple options with forward slash "/"

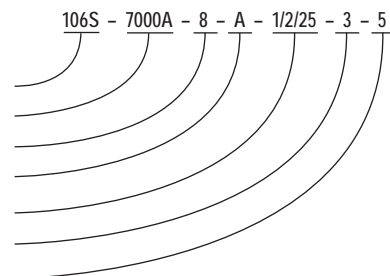
EXAMPLE - With Pressure Gauge

Load cell..... 1000 Series ND 6
 Measuring range..... 2,800 lb_f
 Instrument..... 25-300 Series gauge
 Instrument connection..... Bottom connection
 Options..... Dry gauge, set pointer, RCP
 Connecting type..... 50 mm stainless steel spacer



EXAMPLE - With Pressure Transducer

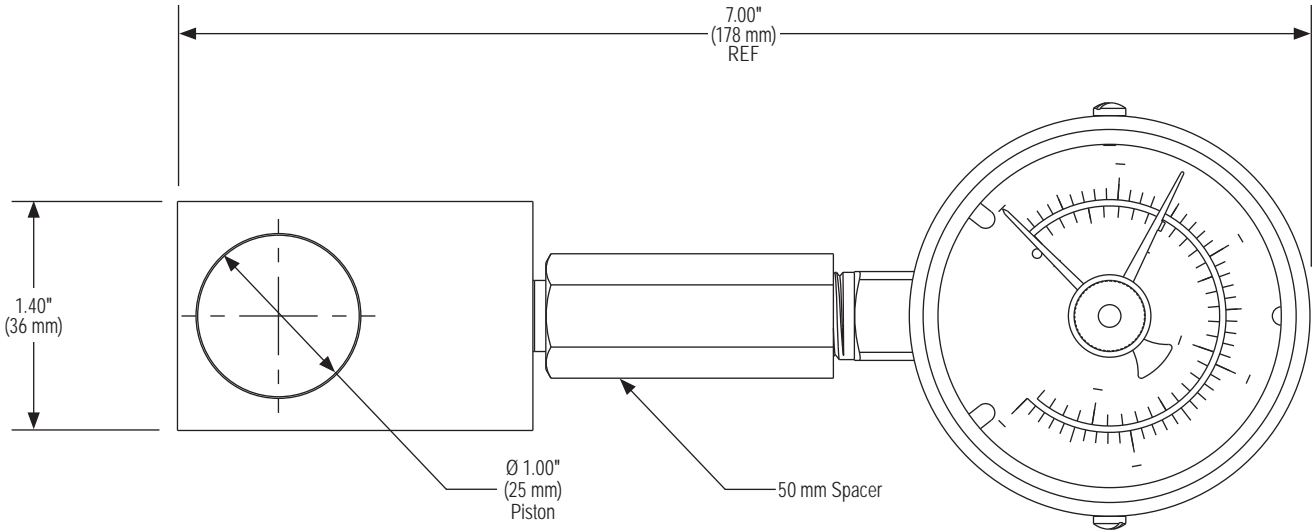
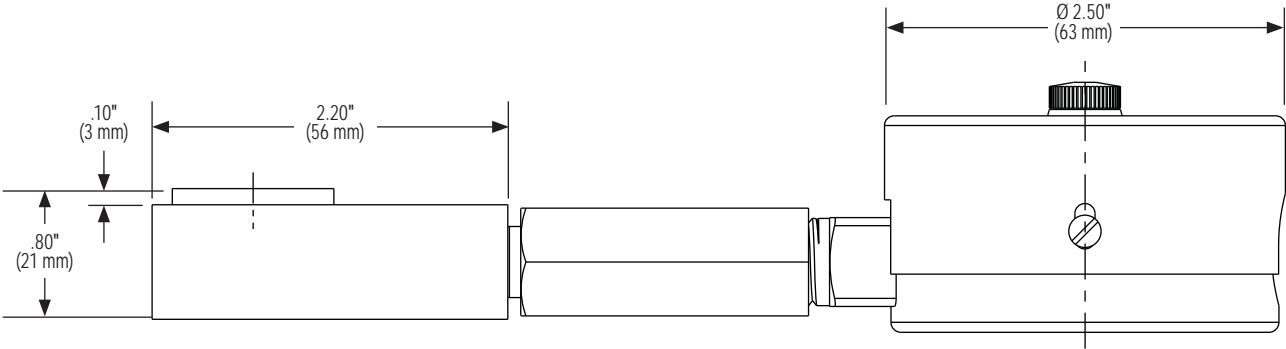
Load cell..... 1000 Series ND 6
 Measuring range..... 7,000 lb_f
 Instrument..... 615 Series transducer
 Instrument connection..... Bottom connection
 Options..... 0.25% accuracy, 0 Vdc to 5 Vdc, M12 x 1 (4-pin)
 Connecting type..... Capillary w/ spiral protective sleeve
 Capillary length..... 5'



Mechanical Force Measurement

Dimensions

With 25-300 Series Pressure Gauge



With 100/200 Series Transducer

