

# **Compression Load Cells**



## **FEATURES**

- Capacity range:
   20K, 50K, 100K, 200K, 300K, and 500K lb
   (9K, 13.6K, 22.7K, 45.4K, 90.7K, 136K, and 227K kg)
- · Compact and rugged
- Operational: -30° to +175°F
- Low deflection
- · Environmentally sealed
- NTEP Certificate of Conformance for Class IIIL scale applications (20K to 200K)
- FM and CSA approved

### **OPTIONAL FEATURES**

Capacities greater than 500K lb (227K kg) - consult factory

## **DESCRIPTION**

C2P1 load cells are designed for various types of weighing and force measurement. Construction of C2P1 load cells utilizes all of the advantages of SR-4® strain gages. C2P1 load cells meet or exceed NIST Handbook 44 requirements and are Factory Mutual approved. Also, the National Type Evaluation Program (NTEP) has issued Certificate of Conformance number 87-060 for C2P1 20K to 200K pound capacities.

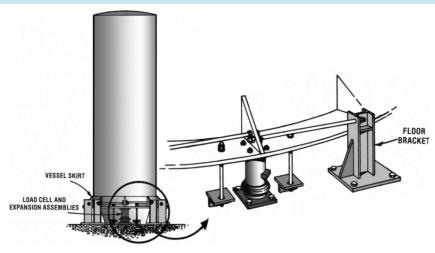
Double diaphragm fabrication and gage linearizing combine to offer precision performance and long term reliability. Low

deflection and superior sealing guarantee trouble-free operation. Relatively low mass and small deflection under load, produce excellent frequency response. Overall, C2P1 cells perform superbly in many services where other transducers cannot.

#### **APPLICATIONS**

- Coal silos
- · Rail car weighing
- Truck scales
- Force measurement

## **CONFIGURATION**

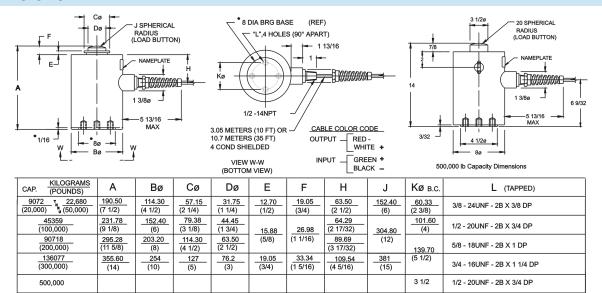


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# Compression Load Cells



## **DIMENSIONS**



NOTE: CONFIGURATION & DIM'S (\*) ARE FOR 136077 Kg/(300,000 LB) CAP. ONLY

<b>SPECIFICATIONS</b>				
Performance Capacities	20K, 50K, 100K, 200K, 300K, and 500K lb (9K, 13.6K, 22.7K, 45.4K, 90.7K, 136K, and		Material Element Cannister Sealing	high grade tool steel low carbon steel, painted*
Rated Output (RO) 0.25%) Repeatability Combined Error Zero Balance Creep (20 minutes) Temperature Effects:	227K kg) 20K - 300K 2.0 mV/V (+/-0.1%) 0.01% RO 0.05% RO 1.0% RO 0.02% RO	500K (+/- 0.02% RO 0.08% RO 1.0% RO 0.03% RO	Environmental Class  Deflection  20K lb  50K lb  100K lb  200K lb  300K lb  500K lb	0.0075 inches 0.0065 inches 0.0075 inches 0.007 inches 0.012 inches 0.020 inches
Recommended Excitation 10 Vac-dc Input Resistance 350 ohms (+/-3.5)		FM/CSA Nonincendive	Groups A-G Class I, Division 2, Groups A-D	
Output Resistance Cable Length	tput Resistance 350 ohms (+/-3.5)		BLH is continually seeking to improve product quality and performance. Specifications may change accordingly.	
Temperature Safe Range -30 to +175°F		*single component, waterborne polyurethane copolymer - high gloss.		

high gloss.

Safe Overload 150% rated capacity Ultimate Overload 300% rated capacity

+30 to +130°F

Compensated Range

**Adverse Load Ratings** 





Vishay Precision Group

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