

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.

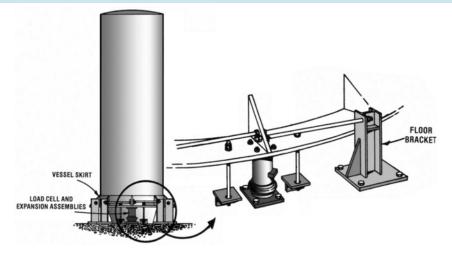
Double diaphragm fabrication and gage linearizing combine to offer precision performance and long term reliability. Low

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

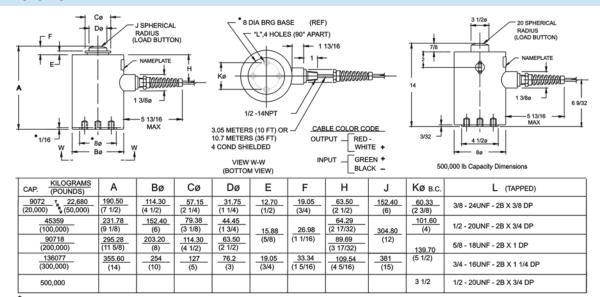
CONFIGURATION



Compression Load Cells



DIMENSIONS



NOTE: CONFIGURATION & DIM'S (*) ARE FOR 136077 Kg/(300,000 LB) CAP. ONLY 20K - 200K lb capacities have NTEP Co

150% rated capacity

300% rated capacity

SPECIFICATIONS

Adverse Load Ratings Safe Overload

Ultimate Overload

SPECIFICATIONS				
Performance Capacities	20K, 50K, 100K, 200K, 300K, and 500K lb (9K, 13.6K, 22.7K, 45.4K, 90.7K, 136K, and 227K kg)		Material Element Cannister Sealing	high grade tool steel low carbon steel, painted*
Rated Output (RO) 2.0 mV 0.25%) Repeatability 0.01% Combined Error 0.05% Zero Balance 1.0% R Creep (20 minutes) 0.02% Temperature Effects: On Zero Balance 0.0015 On Rated Output 0.0008 Electrical Recommended Excitation 10 Vac	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
	0.0015%RO/°F all c 0.0008%Load/°F all on 10 Vac-dc 350 ohms (+/-3.5)		Approvals NTEP FM/CSA Intrinsically Safe	Class IIIL, 4,500 divisions e Class I, II, III; Division 1, Groups A-G Class I, Division 2, Groups A-D
Output Resistance Cable Length Temperature Safe Range	350 ohms (+/-3.5) 350 ohms (+/-3.5) 10 or 35 foot cable		BLH is continually seeking to improve product quality and performance. Specifications may change accordingly. *single component, waterborne polyurethane copolymer - bigh gloss	

Safe Range -30 to +175°F high gloss.

Compensated Range +30 to +130°F