

FEATURES

- Capacity range:500, 1K, 2K, 3K, 5K, 10K, 20K, 50K, and 100K lb (227, 454, 907, 1.4K, 2.27K, 4.54K, 9K, 13.6K, 22.7K, and 45.4K kg)
- Environmentally sealed
- Operational: -30° to +175°F
- Low deflection
- Compact and rugged
- FM approved
- Optional features
 - o Stainless Steel design
 - CSA approval

APPLICATIONS

- Test and measurement
- Calibration standards
- · Redundant weighing systems



C3P1 and C3P2 cells are fabricated with high strength 'ring' type elements to provide an output signal of 3 mV/V at rated capacity. Each cell is designed for minimum deflection and 150% safe overload without damage. C3P2 cells contain a second bridge. The second bridge can be used simultaneously with the first bridge for dual output or be reserved as a backup in case of failure in the first bridge. Double diaphragm fabrication offers precision

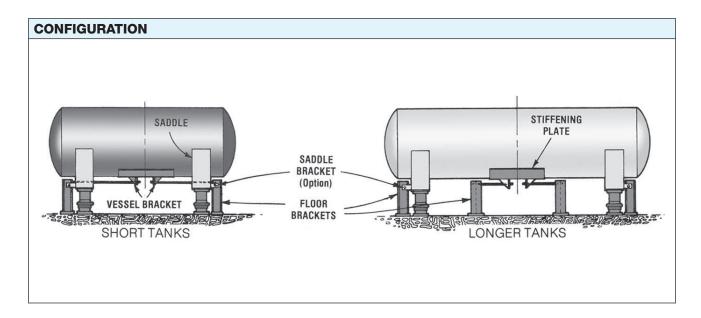




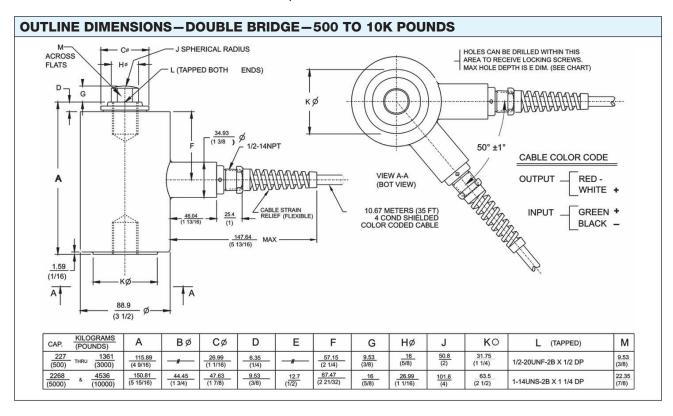


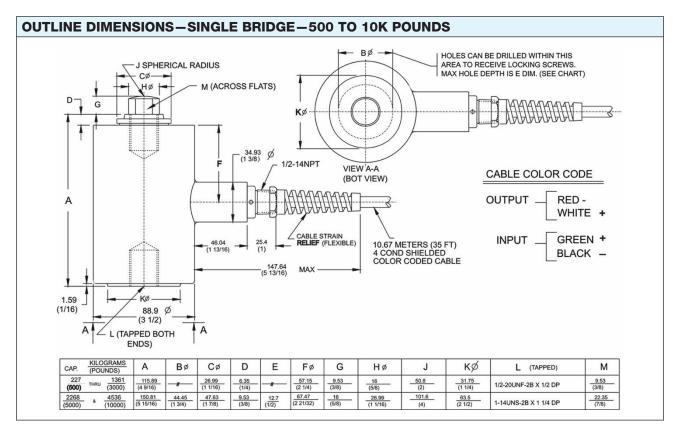
performance and long term reliability. Low deflection and superior sealing guarantee trouble-free operation.

Relatively low mass and small deflection under load, produce excellent frequency response. Overall, C3P1/C3P2 cells perform superbly in many environments where other transducers cannot.

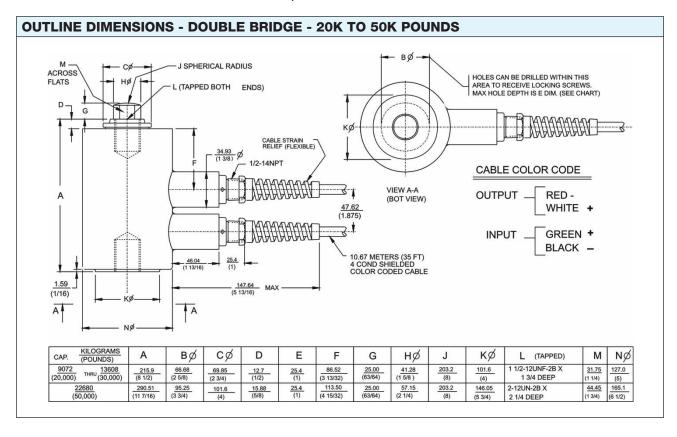


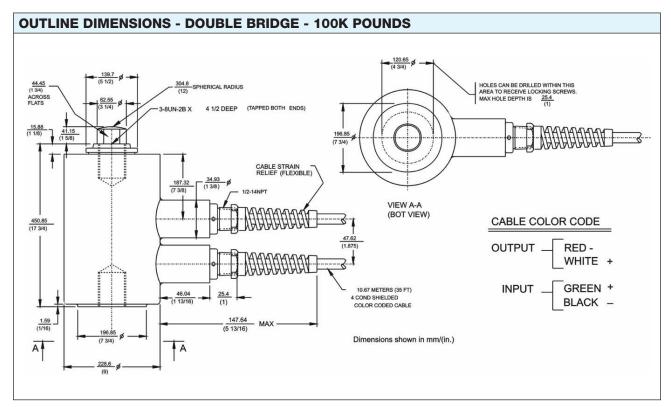














SPECIFICATIONS		
PARAMETER	VALUE	
PERFORMANCE		
Capacities	500, 1K, 2K, 3K, 5K, 10K, 20K, 50K, and 100K lb (227, 454, 907, 1.4K, 2.27K, 4.54K, 9K, 13.6K, 22.7K, and 45.4K kg)	
Rated output (RO)	3.0 mV/V (±0.10%)	
Repeatability	0.02% RO	
Combined error	0.10% RO (500 lb)	0.07% RO (1K–100K lb)
Zero balance	1.0% RO	
Creep (20 minutes)	0.03% RO	
Temperature effects on zero balance	0.0015% RO/°F	
Temperature effects on rated output	0.0008% Load/°F	
ELECTRICAL		
Recommended excitation	10 VAC-DC	
Input resistance	350 Ω (±3.5)	
Output resistance	350 Ω (±3.5)	
Cable length	35 ft cable	
Number of bridges	single or double	
TEMPERATURE		
Safe range	-30°F to +175°F	
Compensated range	+30°F to +130°F	

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PARAMETER	VALUE	
ADVERSE LOAD RATINGS		
Safe overload	150% rated capacity	
Ultimate overload	300% rated capacity	
MATERIAL		
Element	High grade tool steel or stainless 17-4 steel	
Cannister	Low carbon steel, painted* or stainless steel	
SEALING		
Environmental class	IP67	
DEFLECTION		
500 lb	0.007 in	
1K lb	0.006 in	
2K, 3K lb	0.005 in	
5K lb	0.007 in	
10K lb	0.005 in	
20K lb	0.007 in	
50K lb	0.010 in	
100K lb	0.013 in	

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly. Appearance may deviate from picture.

^{*} Single component, waterborne polyurethane copolymer—high gloss.



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