

High Temperature Load Cell

FEATURES

- Operational to 400°F
- Compact—rugged
- Low deflection
- Environmentally sealed
- 20,000 to 200,000 pound capacities

APPLICATIONS

- High temperature environments

DESCRIPTION

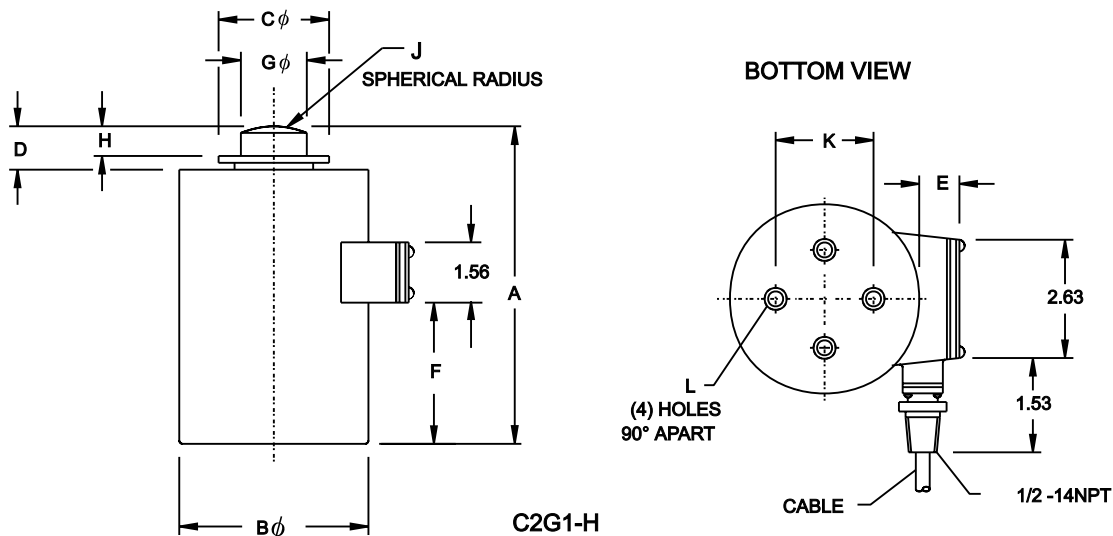
C2G1-H load cells operate at temperatures up to 400°F without needing external cooling. Ability to withstand extreme heat makes C2G1-H cells the perfect choice for weighing molten metals. Other applications include tank and scale installations in locations that are subject to intense heat.

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, C2G1-H cells perform superbly in severe environments where other transducers cannot.

OUTLINE DIMENSIONS



| CAPACITY (lbs) | A | B ϕ | C ϕ | D | E | F | G ϕ | H | J | K | L |
|----------------|--------|----------|----------|--------|--------|--------|----------|-----|----|-------|-----------------------|
| 20,000 | 7 1/2 | 4 1/2 | 2 1/4 | 3/4 | 7/8 | 3 7/16 | 1 1/4 | 1/2 | 6 | 2 3/8 | 3/8-24UNF-2B X 3/8 DP |
| 50,000 | 7 1/2 | 4 1/2 | 2 1/4 | 3/4 | 7/8 | 3 7/16 | 1 1/4 | 1/2 | 6 | 2 3/8 | 3/8-24UNF-2B X 3/8 DP |
| 100,000 | 9 1/8 | 6 | 3 1/8 | 1 1/16 | 1 1/32 | 4 3/4 | 1 3/4 | 5/8 | 12 | 4 | 1/2-20UNF-2B X 3/4 DP |
| 200,000 | 11 5/8 | 8 | 4 1/2 | 1 1/16 | 1 1/8 | 6 1/4 | 2 1/2 | 5/8 | 12 | 5 1/2 | 5/8-18UNF-2B X 1 DP |

High Temperature Load Cell

| SPECIFICATIONS | | PARAMETER | VALUE |
|-----------------------------------|---------------------------------------|-----------------------------|-------------------------|
| PERFORMANCE | | TEMPERATURE | |
| Rated output | 2 mV/V \pm 0.25% | Safe range | \pm 15 to \pm 400°F |
| Non-linearity—% RO | 0.20 | Compensated range | \pm 15 to \pm 400°F |
| Hysteresis—% RO | 0.10 | Effect on zero balance | 0.0025% RO/°F |
| Repeatability—% RO | 0.10 | Effect on rated output | 0.005% Load/°F |
| Creep—% RO (20 minutes) | 0.10 | ADVERSE LOAD RATINGS | |
| ELECTRICAL | | Safe overload | 150% RO |
| Recommended excitation | 10 VAC-DC | Ultimate overload | 300% RO |
| Zero balance—% RO | 2.5 | | |
| Input resistance | 375 Ω \pm 8 Ω @ 400°F | | |
| Output resistance | 350 Ω \pm 10.0 Ω | | |
| Number of bridges | single | | |
| Min. Insulation resistance | | | |
| Bridge to ground | 1000 M Ω (@ 50 VDC) | | |
| Shield to ground | 1000 M Ω (@ 50 VDC) | | |
| Electrical connection | 20 ft cable | | |

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

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