High Temperature Load Cell

FEATURES

- Operational to 400°F
- Compact—rugged
- Low deflection
- Environmentally sealed
- 20,000 to 200,000 pound capacities
- **Optional features**
  - Stainless Steel design

APPLICATIONS

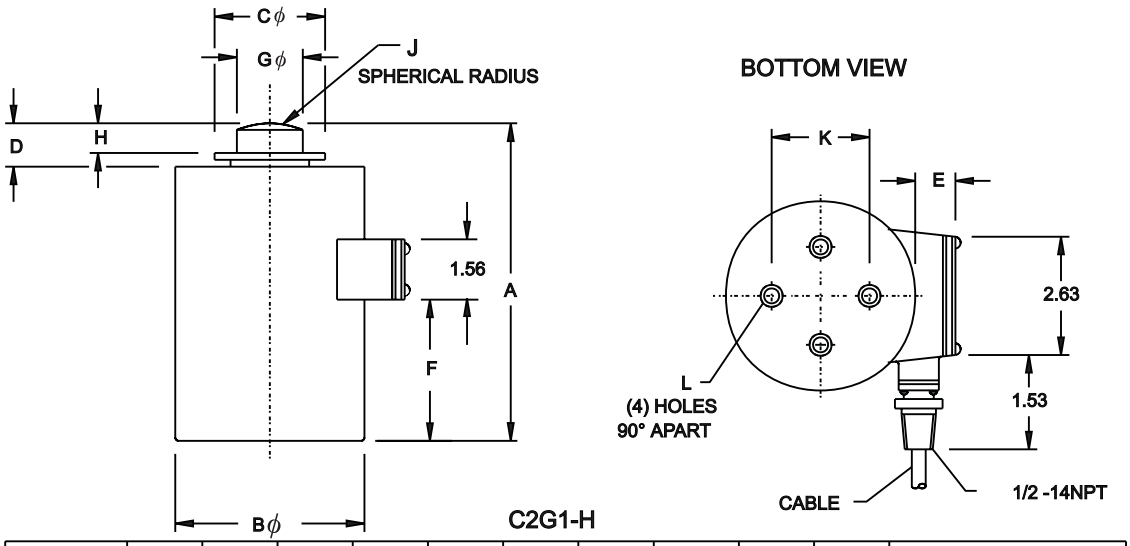
- High temperature environments

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



C2G1-H

CAPACITY (lbs)	A	Bϕ	Cϕ	D	E	F	Gϕ	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

BLH NOBEL
A VPG Brand

High Temperature Load Cell

SPECIFICATIONS	
PARAMETER	**VALUE**
PERFORMANCE	
Rated ouput	2 mV/V ±0.25%
Non-linearity—% RO	0.20
Hysteresis—% RO	0.10
Repeatability—% RO	0.10
Creep—% RO (20 minutes)	0.10
ELECTRICAL	
Recommended excitation	10 VAC-DC
Zero balance—% RO	2.5
Input resistance	375 Ω ±8 Ω @ 400°F
Output resistance	350 Ω ±10.0 Ω
Number of bridges	single
Min. Insulation resistance	
Bridge to ground	1000 MΩ (@ 50 VDC)
Shield to ground	1000 MΩ (@ 50 VDC)
Electrical connection	20 ft cable

PARAMETER	VALUE
TEMPERATURE	
Safe range	±15 to ±400°F
Compensated range	±15 to ±400°F
Effect on zero balance	0.0025% RO/°F
Effect on rated output	0.005% Load/°F
ADVERSE LOAD RATINGS	
Safe overload	150% RO
Ultimate overload	300% RO

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