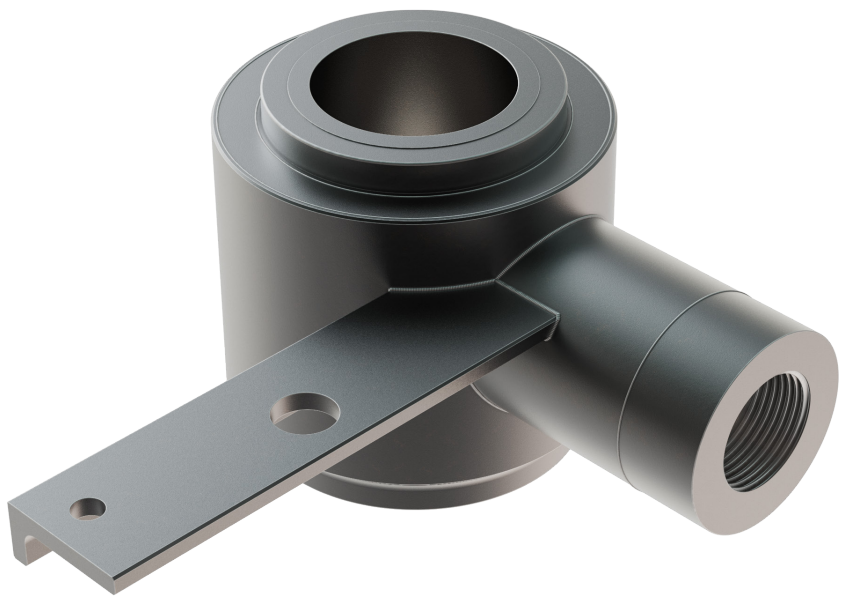
CC1 compression load cell



product description

The CC1 is a stainless steel compression type load cell with complete hermetic sealing, commonly used as a POC/polished rod load cell within the oil pumping industry. The CC1 is designed to withstand harsh industrial environments, it has a mV/V output and is available with various cable connector options.

applications

Pump monitoring systems (POC / polished rod load cell).

accessories

- Compatible range of electronics
- Various interconnecting cables
- Spherical washers
- Load spacer

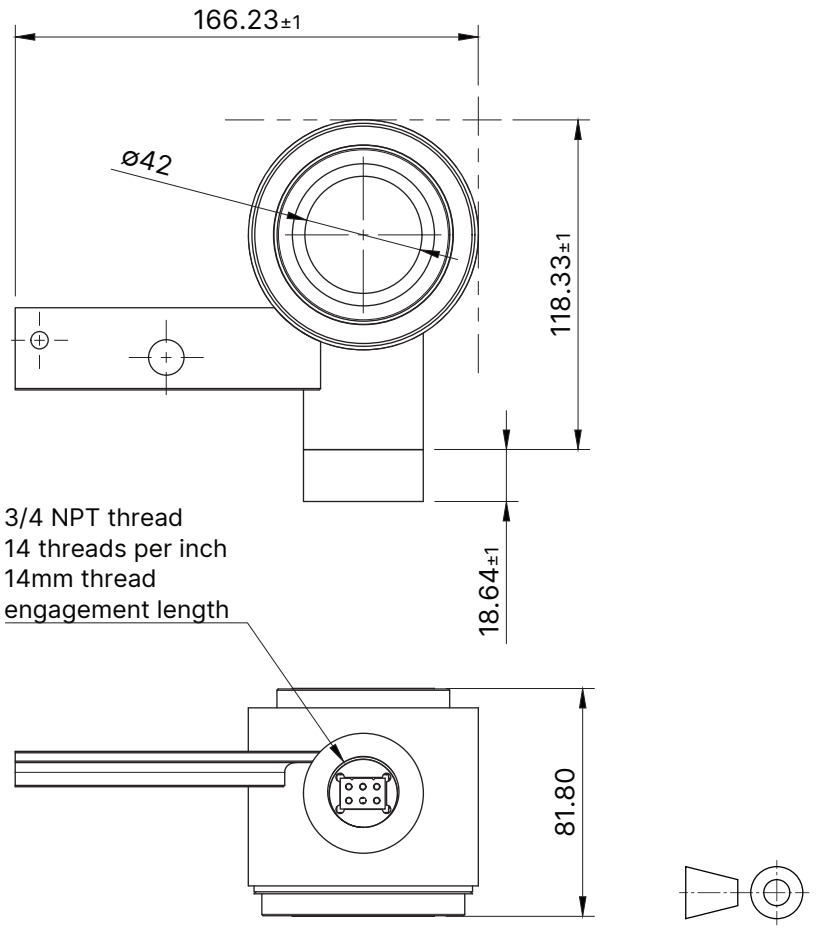
key features

- Capacity of 30 klb (13.6 t) & 50 klb (22.7 t)
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- Traceable calibration in accordance with NIST (National Institute of Standards and Technology)
- mV/V output with standard 6-pin MOLEX connector

specifications

Maximum capacity (E_{max})	klb	30	50
Metric equivalents (1 klb=0.45359 t)	t	13.6	22.7
Packed weight	Kg	2.45	2.54
Temperature effect on zero output (TC_0)	%*RO/°C	±0.027 (±0.0015 %*RO/°F)	
Temperature effect on sensitivity (TC_{RO})	%*RO/°C	±0.036 (±0.002 %*RO/°F)	
Non-linearity	%*RO	±0.050	±0.250
Hysteresis	%*RO	±0.050	±0.250
Repeatability	%*RO	±0.050	±0.250
Rated output (RO)	mV/V	2 ± 0.5%	
Zero balance	%*RO	± 3	
Excitation voltage	V	5...15	
Input resistance	Ω	800 ± 50	
Output resistance	Ω	700 ± 0.5%	
Insulation resistance (100 V DC)	MΩ	≥ 500	
Safe load limit (E_{lim})	%*E_{max}	200	
Compensated temperature range	°C	–25...+65 (-14...+150 °F)	
Operating temperature range	°C	–55...+80 (-70...+175 °F)	
Load cell material		Stainless steel 17-4 PH (1.4548)	
Sealing		Complete hermetic sealing; cable entry sealed by glass to metal header	
Protection according EN 60 529		IP68 (up to 2 m water depth) / IP69K	

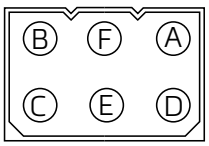
product dimensions (mm)



wiring

As standard the CC1 is provided with a MOLEX 6-pin male connector and a threaded connector shell.

Connector pin	Function
A	Excitation +
B	Signal +
C	Signal -
D	Excitation -
E	Ground
F	Not connected



Specifications and dimensions are subject to change without notice.