

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



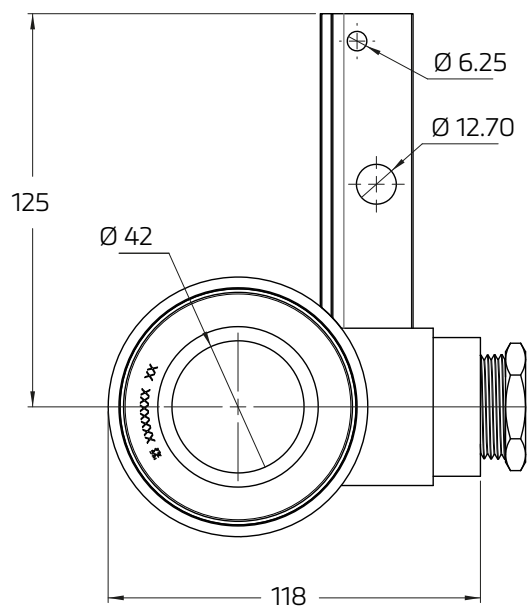
RoHS
compliant



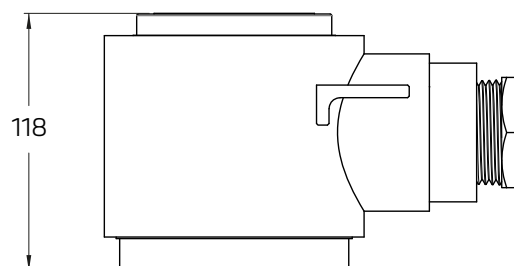
specifications

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	$\leq \pm 0.027$ ($\leq \pm 0.0015$ %*RO/°F)	
Temperature effect on sensitivity (TC_{RO})	%*RO/°C	$\leq \pm 0.036$ ($\leq \pm 0.002$ %*RO/°F)	
Combined error	%*RO	$\leq \pm 0.5$	
Repeatability	%*RO	$\leq \pm 0.02$	
Insulation resistance (100 V DC)	MΩ	≥ 500	
Zero balance	%*RO	$\leq \pm 1$	
Input resistance (R_{LC})	Ω	800 ± 50	
Output resistance (R_{out})	Ω	$700 \pm 0.5\%$	
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	
Rated output (RO)	mV/V	$2 \pm 0.5\%$	
Excitation voltage	V	5...15	

product dimensions (mm)



Bottom perspective
(Looking up from underneath)

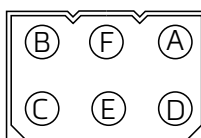


Left perspective
(Bracket-side view)

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.