CC1 / CC1B compression load cell



product description

The type CC1 & CC1B 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. Both are designed to withstand harsh industrial environments. Outputs include mV/V and 4-20mA with various cable connector options available. The range services capacity at 30 klb & 50 klb.

applications

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

accessories

Compatible range of electronics

Various interconnecting cables

Spherical washers

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)

CC1 - mV/V output with standard 6-pin MOLEX connector

CC1B - 4-20mA output with optional Amphenol Connector Type

MIL-DTL-5015 type connector











OIML valid for standard CC1 variant only. Not yet available for CC1B.



specifications

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	≤±	0.05
Hysteresis	%*RO	≤ ±	0.05
Repeatability	%*RO	≤ ±	0.02
Insulation resistance (100 V DC)	MΩ	≥ 5	500
Zero balance	%*RO	≤	±1
Input resistance (R _{LC})	Ω	800	± 50
Output resistance (R _{out})	Ω	700 ±	- 0.5%
Safe load limit (E _{lim})	%*E _{max}	20	00
Compensated temperature range	°C	-25+65 (-	14+150 °F)
Operating temperature range	°C	-55+80 (-	70+190 °F)
Load cell material		Stainless steel 1	7-4 PH (1.4548)
Sealing			cable entry sealed by glass
Protection according EN 60 529		IP68 (up to 2 m wo	ater depth) / IP69K

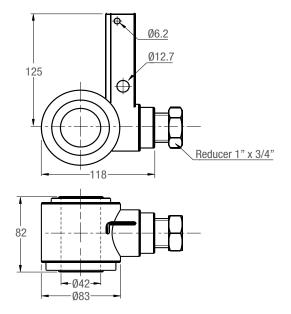
CC1 Specific Specifications

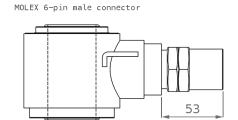
Rated output (RO)	mV/V	2 ± 0.5%
Excitation voltage	V	515

CC1B Specific Specifications

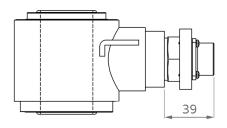
Rated output (RO)	mA	4-20
Supply voltage	V	15 - 24

product dimensions (mm)





Amphenol Connector Type MIL-DTL-5015



wiring

As standard the CC1 & CC1B are provided with a MOLEX 6-pin male connector and a threaded connector shell. The CC1B is available with the Amphenol Connector Type MIL-DTL-5015.





Connector pin	Function CC1	Function CC1B
1	- Excitation	Output / TX -
2	Not connected	Not connected
3	-Signal	Supply / TX +
4	+ Excitation	Not connected
5	Ground	Shield
6	+ Signal	Not connected

Connector pin	Function CC1B
А	Not connected
В	Shield
С	Not connected
D	Output / TX -
F	Not connected
F	Supply / TX +
Г	
G	Not connected

Specifications and dimensions are subject to change without notice.