

# CC3 compression load cell



## product description

The CC3 polished rod load cell is specifically designed for the oil and gas industry to address pump off control monitoring in well automation. The CC3 provides a rugged, steel casting, that is impervious to shock loading, moisture ingress and fatigue failures.

The CC3 features a Nickel plated 4340 steel sensing element which increases performance and reliability. The assembly includes a powder coated housing, UV resistant sealants with an environmental seal rated to IP67. The CC3 also carries HazLoc approvals for intrinsically safe operation in Class 1, Division 1 environments.

## applications

Pump off control (polished rod load cell)

## accessories

Spherical washers

Load plates

Coiled or straight cables in a variety of lengths

## key features

Capacity of 30 klb (13.6 t) & 50 klb (22.7 t)

UL Approved Class 1, Div 1 (pending)

Rugged design, waterproof, UV and corrosion resistant

Fatigue rated to a minimum 50,000,000 life cycle



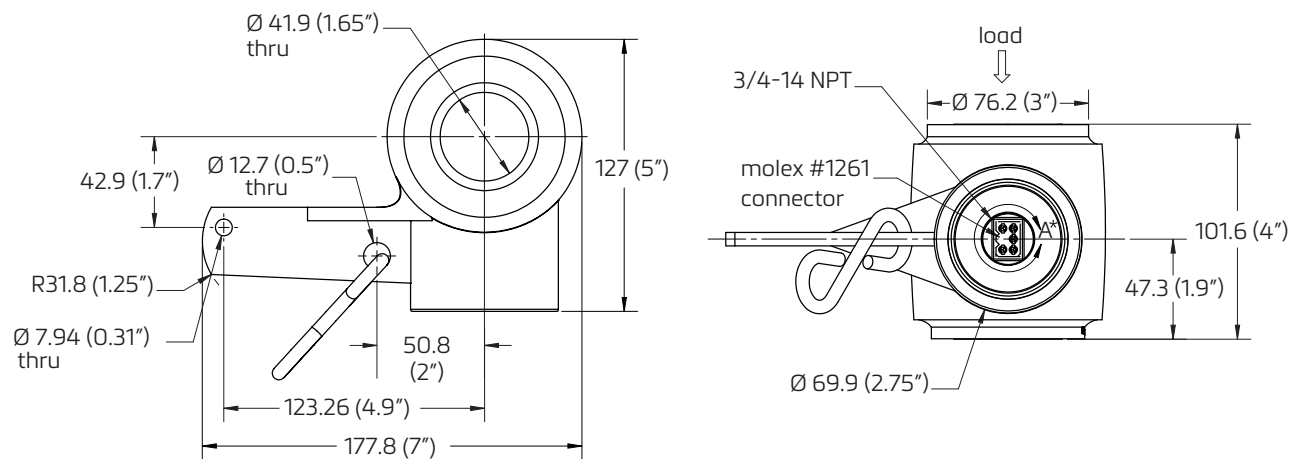
RoHS compliant



## specifications

Maximum capacity ( $E_{max}$ )	klb	30	50
Metric equivalents (1 klb=0.45359 t)	t	13.6	22.7
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)	
Non-linearity	%*RO	$\pm 0.250$	
Hysteresis	%*RO	$\pm 0.250$	
Rated output (RO)	MV/V	$2 \pm 0.5\%$	
Insulation resistance (100 V DC)	MΩ	$\geq 5000$	
Zero balance	%*RO	$\pm 1$	
Input resistance ( $R_{LC}$ )	Ω	$770 \pm 50$	
Output resistance ( $R_{out}$ )	Ω	$700 \pm 3.5$	
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		4340/4140	
Protection according EN 60 529		IP67	
Surface Finish		Sensor body = Electroless Nickel Plating Cast housing = Powder coated	

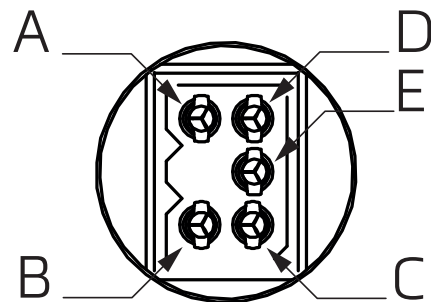
## product dimensions (mm)



## wiring

As standard the CC3 is provided with a 5 pin Molex connector.

Molex pin	Function
A	Excitation +
B	Signal +
C	Signal -
D	Excitation -
E	No Connection



Specifications and dimensions are subject to change without notice.