



Hydraulic load cells with pressure transducer

Technical features

Hydraulic load cells are constituted by two circular plates made of stainless steel, welded along the entire circumference of the cell, and connected to a pressure transducer through a steel tube. The space between the two plates is filled with de-aired oil which ensures good thermal performance and good sensitivity even under low loads. When the cell undergoes a deformation, the oil pressure changes in proportion to the applied load.

The instrument is completely made of stainless steel. IP68 sealing makes this instrument extremely reliable. The load cell is also designed to compensate eccentric loads. The ease of use and the low chance of an incorrect installation ensure safe and reliable results. The cell must be installed with load orthogonal to the support plane. Load cells can be equipped with a distribution plate (optional) for a better distribution of the load.

Applications

Hydraulic load cells are used to measure the load present between two metal structures or between concrete and steel.

Hydraulic load cells can be used in particular:

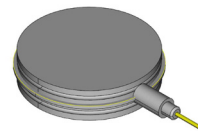
- Under a centring base
- Between two centring elements
- To measure the load on a strut
- To measure the load during acceptance tests on poles

Related Instrumentation

- 2x2x0.25 PUR Cable
- NTC
- Readout Units Geotester 3.0
- Datalogger D200-D800-D1600-D3200
- OtrMonitoring web site



Technical specifications



	Hydraulic load cell 1900 KN	Hydraulic load cell 3000 KN
Description	Hydraulic load cell 1900 KN	Hydraulic load cell 3000 KN
Capacity	1900 KN	3000 KN
External diameter	220 mm	270 mm
Diameter bearing surface	200 mm	246 mm
Thickness	38 mm	38 mm
Output	4-20 mA two wire	4-20 mA two wire
Non linearity	< 1% F.S	< 1% F.S.
Thermistor	NTC3K integrated on request	NTC3K integrated on request
Temperature operating range	-20°C / +50°C	-20°C / +50°C
Material	Stainless steel	Stainless steel
	Special hydraulic load cells with different range can be supplied on request.	

Codes & Part Numbers

P/N 2016020 Hydraulic Load cell 1900 KN STAINLESS STEEL
 P/N 2016021 Hydraulic Load cell 3000 KN STAINLESS STEEL
 P/N 2016022 Hydraulic Load cell 1900 KN GALVANIZED STEEL
 P/N 2016023 Hydraulic Load cell 3000 KN GALVANIZED STEEL