



Pressure measurement on railway tank wagons



Application:

Bourdon tube pressure gauges for pressure monitoring on tank wagons for powdery goods

Deutsche Bahn AG, for manufacturers of rail cars, shipping companies (e.g. chemical industry)

Tank wagons that transport powdery goods belong to the special purpose wagons. These are normally equipped with a pressure gauge for pressure monitoring.



The problem:

Tank wagons that transport powdery goods have to be monitored on varying pressure ratios. During test operation (24 h) the pressure range is 1.0 bar. During transport, the pressure must be 0.5 bar. Unloading takes place at a pressure of 2.5 bar, which must not be exceeded.

Our solution:

In order to be able to monitor these values accurately, we have "spread" our pressure gauge. This means, in a range from 0 – 1.4 bar over 120°, we are able to read the values precisely. The unloading pressure is 2.5 bar. A red mark indicates the unloading pressure. This pressure must not be exceeded.

With special scale: RChG 63 – 1 rmFr

- ◆ 0 – 4 bar
- ◆ Crimped-on ring case stainless steel
- ◆ Connection G $\frac{1}{4}$ B
- ◆ With front flange for panel mounting
- ◆ Acrylic glass
- ◆ Movement stainless steel
- ◆ Accuracy class 1.6
- ◆ Special scale for varying pressure ratios:
 - ◆ during test operation 1 bar
 - ◆ during transport 0.5 bar
 - ◆ during unloading 2.5 bar



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