

Level Measurement, Replacement of Radar

Application: Process Weighing
Industry Sector(s): Pharmaceutical

The Customer

A producer of pharmaceutical products with its factory located in Sweden.

Customer Inquiry

The customer had problems measuring content in their tanks (x10) using radar level measurement. They couldn't detect content below 100 liters, as the tanks' bottoms are cone-shaped and have an agitator located there. Using the agitator gave them fluctuations in reading.

They asked for help and gave us the following conditions:

- There is no height left for raising the tanks.
- Traditional KIS load cells are too expensive for this project.

Solutions and Equipment

We paid a visit to the customer to review the tanks, which are all located in the same room. As an alternative to traditional KIS load cells we proposed KIS-9 weigh modules. We told them to cut off the existing tank legs and arrange new mounting as per the principal layout provided by us.

Equipment:

- Load cell KIS-9-20 kN with tilt guard (x30)
- Junction box SL-4-SS (x10)
- Instrument G4-RM (x2) with Profibus DP, 10 weighing channels total
- Commissioning etc.

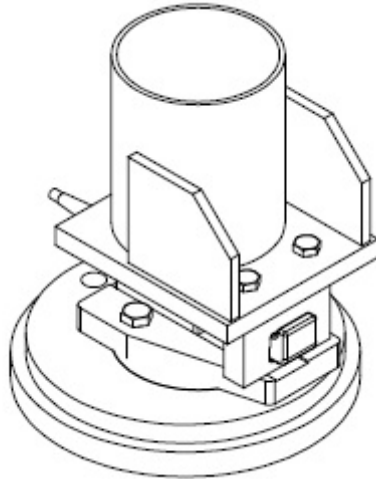


Figure 1: KIS-9 mounted under the leg of the tank

Customer Comments

The results from the first tank were so good that we immediately ordered equipment for the nine remaining tanks. Today we can read accurate weight values during agitation; but more importantly, we can read the content down to zero (0) kilograms and know that the tank is empty.

“The result from the test tank was of such high accuracy that we decided to use the same system for our nine remaining tanks”

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