

Rosemount 2120 On Low Vessel Drain Duty

RESULTS

- Reliable control of low level to ensure total emptying
- Protects pump from running dry
- Minimum process intrusion length
- Low-cost installation
- Weatherproof housings

APPLICATION

Low-level drain of oils in horizontal cylinders stored at ambient pressure and temperature.

CUSTOMER

Petrochemical industry

CHALLENGE

The challenge is to ensure that none of the previous mix, which may have a different formulation, remains in the vessel. To accomplish this, a detector is fitted as low as possible in the vessel so that it is known when the vessel is completely drained.

SOLUTION

The Rosemount 2120 successfully detects remaining liquid at very low levels meaning that the entire contents of the vessel can be emptied. The relay output from the unit gives a 'vessel empty' indication on the control panel.

Alternatively the Rosemount 2120 can directly control the pump using the direct load switching electronics output option to protect against pump running dry. This prevents damage to the pump and consequent downtime.

The short forks for minimum intrusion in the vessel allows simple low cost installation at any angle into pipes and vessels. With the forks projecting only 1³/₄-in. (50 mm) into the pipe, the Rosemount 2120 can be installed in smaller diameter pipes.

With a range of weatherproof housing types rated IP66/67 or NEMA 4X, the Rosemount 2120 can be installed into almost any environment.



Figure 1: The Rosemount 2120 vibration fork level switch with its small forks and superior resistance to false switching will mount directly into the pipe.



Figure 2: Rosemount 2120 mounting for successful low-level drain.

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