

Paint & Varnish Processing

Silo Safety System KCS

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Description ▼

The KCS Silo Safety System for the safeguarding of silos consists of a central electronic monitoring and control unit which manages a series of silos and a component kit including, in the basic version one power panel for each silo, a silo pipe connection, a pinch valve, a tanker coupling with the filling pipe, a maximum level indicator, a differential pressure switch or electronic pressure meter, a pressure gauge for the venting filter, a pressure relief valve, and an audible alarm.

Function ▼

The KCS Silo Safety System can be used for silos which are filled by tanker with powdery materials. Damage to the silo or its accessories is most likely during the operation of tanker filling. This is due to the risk of overfilling or excess pressurisation. The KCS system, supplied in component form, prevents both overfilling and excess pressurisation, thus avoiding damage to the silo, to the venting filter or other accessories, as well as reducing the risk of dust emission into the atmosphere.



Application ▼

In Dry-Mix plants it is essential that each silo is equipped with the safety components described. The control panel should be installed in the central control room from where the plant operator can monitor up to 32 silos.

Benefits ▼

- ✓ Avoids harm to people and damage to the silo and its accessories;
- ✓ Reduces risk of air pollution;
- ✓ Eliminates risk of filling the wrong silo;
- ✓ Starts and stops filter cleaning automatically;
- ✓ Receives indication from electronic pressure meter whether filter may need attention.

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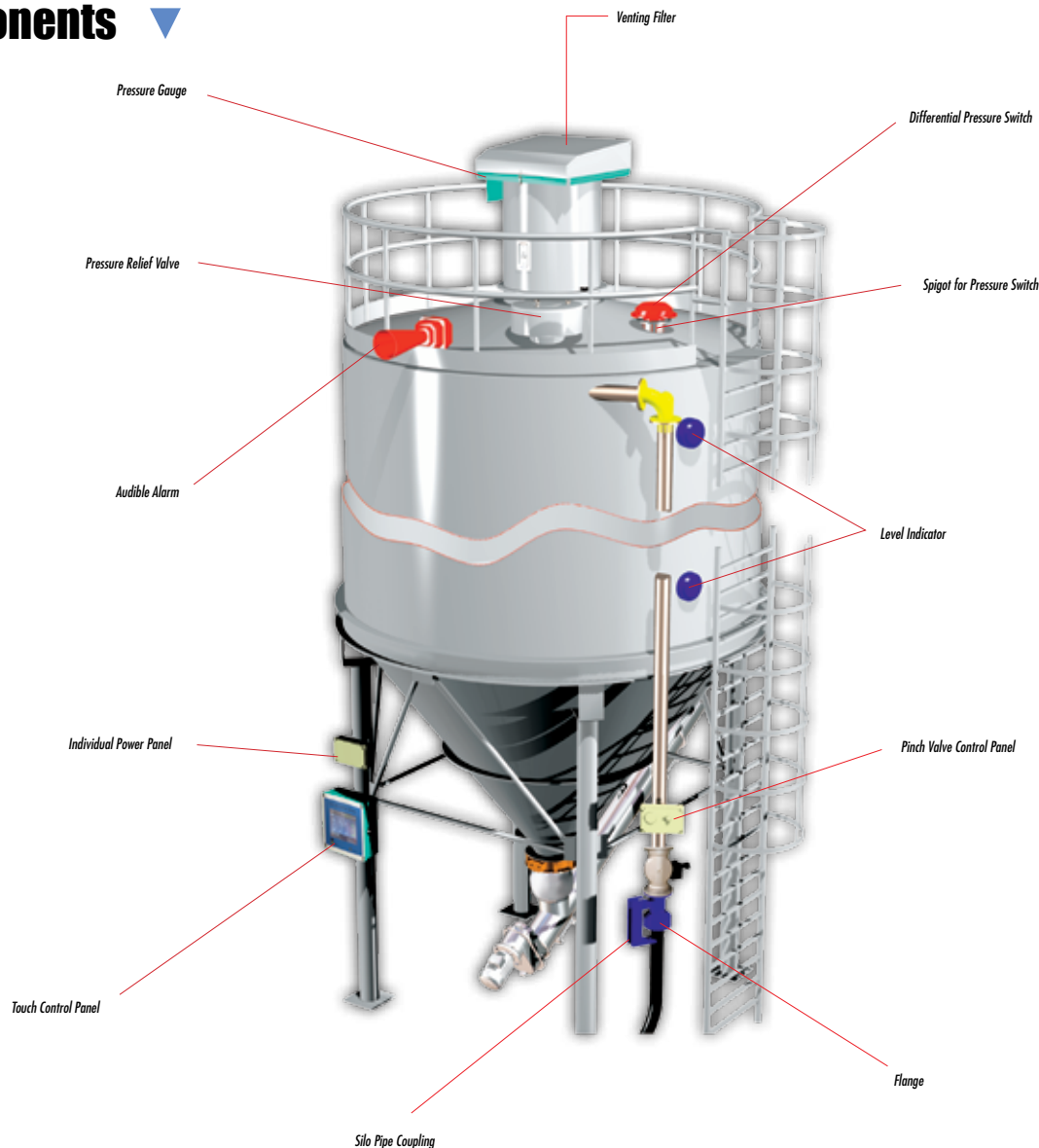
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Technical Features / Performance ▼

- ▶ To avoid damage to silo and accessories
- ▶ To reduce risk of air pollution
- ▶ To eliminate risk of filling wrong silo
- ▶ To start and stop filter cleaning automatically
- ▶ To receive indication from pressure gauge whether filter may need attention
- ▶ To benefit from control panel monitoring of:
 - Internal pressure of any silo;
 - Maximum level indicator free;
 - Presence of compressed air to venting filter (if air jet filter is used);
 - Presence of compressed air to pinch valve.

Components ▼



This datasheet might not show the complete range but only the models specialised for the application.