

DryMix Processing

Membrane Pressure Relief Valves VHS

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Description ▼

VHS Pressure Relief Valves consist of a cylindrically shaped body with flanged connection spigot to the silo, an exhaust outlet spout for duct connection, an elastic diaphragm able to re-establish pressure balance instantaneously, a counterweight kit to keep the valve closed under normal conditions, and a weather protection cover.

Function ▼

The counterweight-loaded VHS-type Pressure Relief Valve has one decisive advantage over the spring-loaded type. Due to the moment of inertia of the helical springs on the latter, pressure balance is re-established extremely quickly but not instantaneously. The VHS, on the other hand, does the job in real time. Through an interplay of pressure on different surface areas on both sides of a membrane fitted inside the valve casing, perfect pressure balance is achieved. In the event of excess pressure this interaction enables air from inside the silo to flow back into the atmosphere. In case of suction pressure the air penetrates from the atmosphere into the silo.



Application ▼

VHS Pressure Relief Valves are the last resort if abnormal pressure conditions endanger the silo structure. This is why sudden excess or suction pressure inside the silo must be dealt with instantaneously. Even though ideally a Pressure Relief Valve should never have to go into action, it must be efficient and reliable when needed. With thousands of units installed worldwide, VHS Pressure Relief Valves have given evidence of being totally reliable under the most different conditions.

Benefits ▼

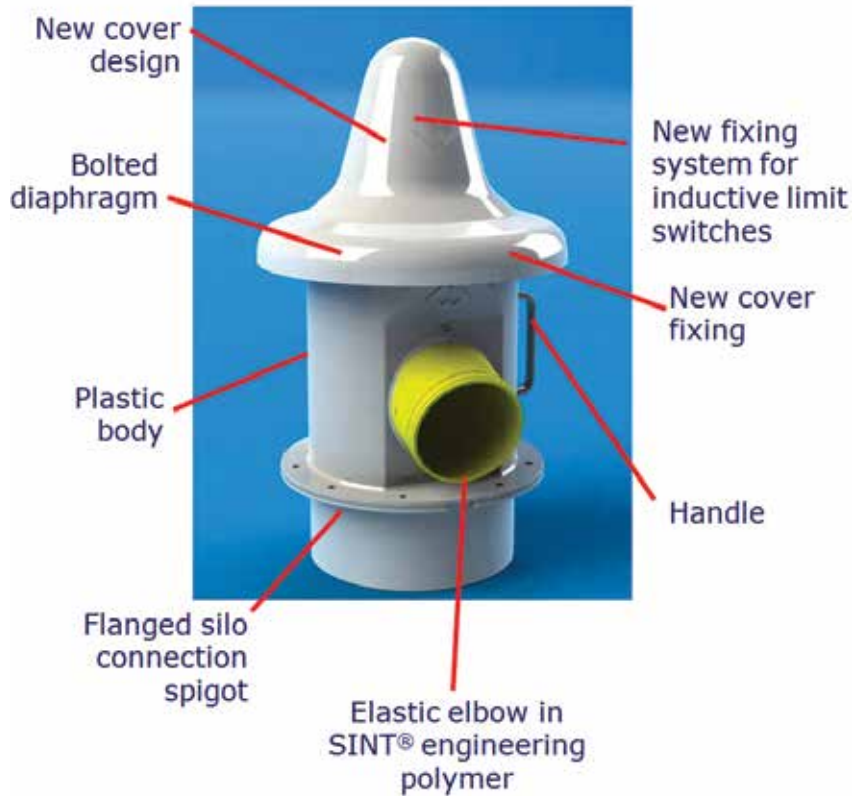
- ✓ Safety for people, plant and environment;
- ✓ Compliance with existing regulations;
- ✓ Maximum efficiency and minimum operating costs;
- ✓ Quick and easy maintenance;
- ✓ Attractive price.

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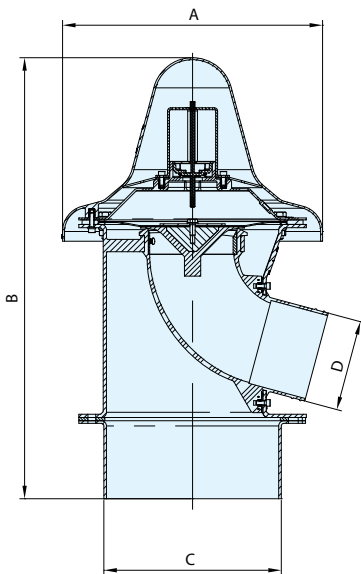
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Technical Features / Performance ▼



Overall Dimensions ▼



| VHS273 | Excess Pressure | Negative Pressure | kg |
|---------------|----------------------------------|--------------------------|-----|
| Standard-type | 500 mm H ₂ O | -50 mm H ₂ O* | 8.0 |
| Option | 300 ~ 1,000 mm H ₂ O* | -50 mm H ₂ O* | |

| A | B | C | D |
|----------|--------|----------|----------|
| Ø 366 mm | 557 mm | Ø 273 mm | Ø 140 mm |

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