

Brilex Indoor Vent



Indoor Explosion Venting

By using BRILEX Explosion Vents in combination with a unique BRILEX Ceramic Filter, economical venting of dust explosions is possible. When the vent opens during an explosion, the ceramic filter retains the dust and cools down the hot gases.

Development Criterion

Existing quench pipes are uneconomical, not re-usable or have lower venting efficiencies requiring high vessel strength. The BRILEX IndoorVent offers unlimited use with the highest known efficiency.

Due to high investigation costs and bad efficiency, design engineers and end users tried to find alternatives. The BRILEX IndoorVent offers a combination of a fast opening BRILEX Explosion Vent with a high efficient ceramic filter. The vent area of the IndoorVent is greater than the vent areas of existing quench systems. After an explosion the IndoorVent can be re-used. The result is a cost effective solution for plant designers and end users for all industries.

Parameters

The BRILEX IndoorVent can be used for reduced explosion pressures (P_{red}) between 0.2 to 1.5 barg and K_{st} values up to 250 bar.m/sec.

After an Explosion

Times have changed since explosion quenching systems had to be thrown into the waste bin after single use. The BRILEX IndoorVent can be re-used after changing the filter cartridges and the explosion vent. Maintenance time of approximately 30 minutes is only needed before it can be used again. BRILEX guarantees this after each dust explosion.

Approvals

The BRILEX IndoorVent has been tested by well-known institutions and is certified according to the ATEX 100a standard. BRILEX is certified to DIN EN ISO 9001 : 2000.

Delivered Products

BRILEX delivers complete units consisting of the IndoorVent and a pre-installed BRILEX explosion vent including integrated flange gaskets and monitoring sensor. Spare part kits are available for immediate use after an explosion. These consist of replacement explosion vent and new filter cartridges and monitoring sensor.





Table of Sizes	STANDARD INDOORVENT						
<i>Type</i>	<i>IV240</i>	<i>IV600</i>	<i>IV1000</i>	<i>IV1600</i>	<i>IV2200</i>	<i>IV3200</i>	<i>IV4200</i>
<i>Internal Diameter</i>	DN200	DN300	DN400	DN500	DN600	DN700	DN800
<i>Vent area cm²</i>	240	600	1000	1600	2200	3200	4200



Table of Sizes	INDOORVENT ^{EXL}					
<i>Type</i>	Dimensions L/W/H (mm)	Weight (kg)	Pred max (bar g)	Eff. vent Area (cm ²)	Kst max	Max explosible Volume per IV (m ³)
<i>457 x 890 SB</i>	970/540/875	90	0.9	1900	200	<=4.4
<i>457 x 890 DB</i>	970/540/1705	163	0.9	3100	200	<=4.4
<i>457 x 890 DB</i>	970/540/1705	163	0.9	2100	200	>4.4<=9.6



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