

VENTING PANELS RIBBED ECOTECH GTS

CHARACTERISTICS Non-resealable venting device which opens at the breaking pressure leaving the vent area completely free. The opening takes place due to the breaking of the notches and the relative "extraction" of the panel from the seal. The plastic hinge guarantees the retention of the open panel without any projection of parts of the panel or any subframe.

APPLICATION AND USE This type of safety device is intended to protect against possible explosions caused by a sudden increase in pressure of devices containing potentially explosive air / dust or air / gas mixtures such as silos, separator filters, elevators, sieves, mixers, tanks, channels and piping, dust collectors, dryers, etc. All rupture panels are safety devices and have been certified in accordance with the UNI EN 14797: 2007 standard.

TECHNICAL DATA

Material: steel ASTM A240 (304I O 316L)
Gasket: PTFE
Break pressure: 0,1 bar a 15-25 °C
Working max. vacuum strenght: -0,04 bar
Working max. pressure strenght: +0,06 bar
Opening efficiency: 0,95
Certificate CE 0588 Ex GD FSA 05 ATEX 1558 X
Max. use values allowed:
 $Kst \leq 300 \text{ bar} \cdot \text{m} \cdot \text{s}^{-1}$ $P_{\text{max}} \leq 10 \text{ bar}$
 $Kg \leq 100 \text{ bar} \cdot \text{m} \cdot \text{s}^{-1}$ $P_{\text{red,max}} \leq 2 \text{ bar}$



CUSTOMISATION

The ribbed venting panels are tailor-made, in particular for what regards: outside dimensions, relief area, centre to centre distance of the fastening holes, type of gasket

Outside dim. (mm)	Inside dim. (mm)	Relief areaa (m ²)*	Area sfogo con telaio (m ²)*
309x309	245x245	0,057	0,054
370x285	306x221	0,064	0,061
385x309	321x245	0,075	0,072
500x300	436x236	0,100	0,096
445x400	381x336	0,120	0,113
500x400	436x336	0,140	0,134
537x385	473x321	0,140	0,133
690x327	626x263	0,160	0,154
700x380	636x316	0,190	0,183
570x570	506x506	0,240	0,229
735x455	671x391	0,250	0,242
670x570	606x506	0,290	0,282
690x550	626x486	0,290	0,282
690x690	626x626	0,370	0,357
970x510	906x446	0,380	0,371
788x645	724x581	0,400	0,388
662x436	589x282	0,200	0,190
972x539	908x475	0,380	0,270
672x572	608x508	0,270	0,360
1002x668	938x604	0,500	0,480

*established considering opening efficiency

OPTIONALS

OUTSIDE FRAME

Realized in coated carbon steel. It is used for fixing venting panel to the support framework.

BACK PRESSURE FRAME

Realized in coated carbon steel, it supplies an appropriate support to the venting panel, preventing its activation during the normal depression functioning in.

With the back pressure frame, the maximum under pressure resistance in the working period can be -0,05 bar. The relief area will be reduced of the space of the frame.

SURVEY OPENING DEVICE

The survey opening device is supplied with a fork inductive sensor certified Atex II 1GD. This sensor observes the presence or not of a metallic flap inside the fork. The metallic flap is directly obtained by the contour panel. In this way, any type of venting panel sinking can be noticed by the sensor. The survey opening device: can be applied to all venting panels, can be interfaced with the monitoring and control systems, notices any change/variation, not only in case of explosion but also in case of opening.

