



Fire and explosion protection

EXPLOSION DOOR (PUSM AxB – M / OTR50)

Explosion door are designed to protect technological systems in which there is a risk of explosion. Under normal operating conditions, the escape hole of the device covered by a PUSM. When the operating pressure level is exceeded inside the device, PUSM are opened on the housing to relieve pressure from the exposed area. The technological device is this subjected to a pressure lower than its resistance to pressure and therefore does not destroy it.



This datasheet describes the technical parameters of PUSM (type M). These PUSM are designed so that permanent magnets are placed along their circumference and the explosion vent is held in the closed position by means of these magnets. The overpressure created under the explosion vent overcomes the magnet's force until the explosion door is released. The explosion door is held when the chains are opened. They are produced in rectangular design only. Explosion door are designed and testing in accordance with EN 14 797 and European Directive 2014/34 / EU.

DATASHEET

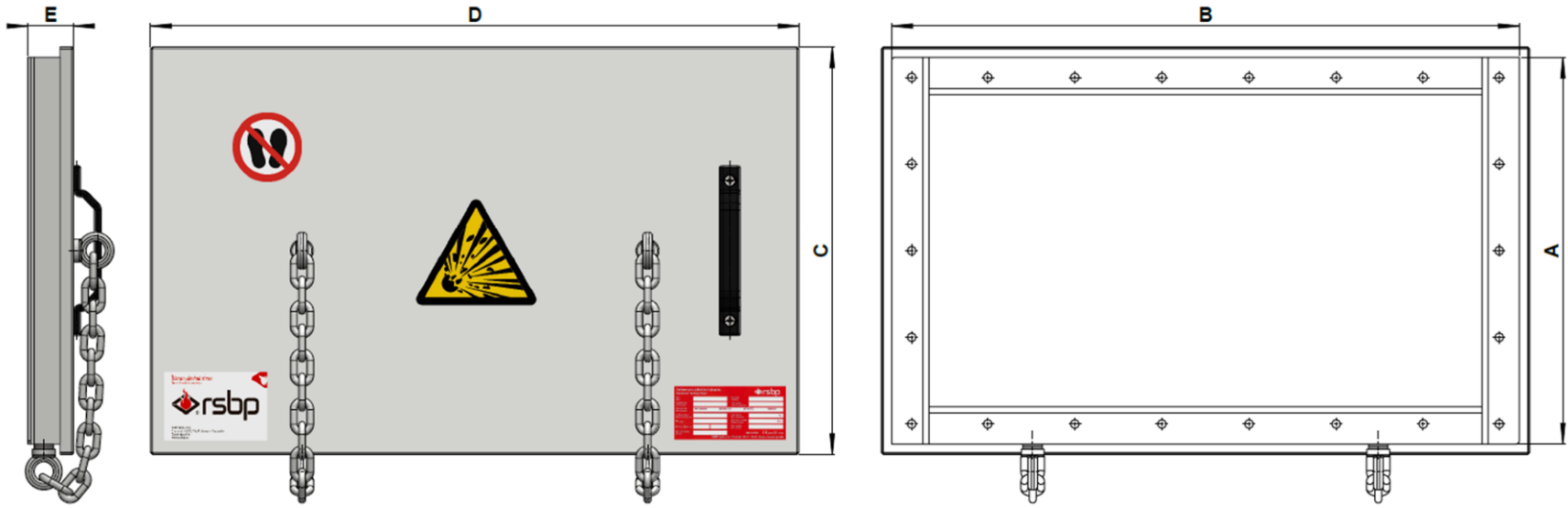
EXPLOSION VENTING DEVICE CLASSIFICATION	
Device group	II.
Explosive ambience	D
Dust class	St2
Operating temperature	40 to 70°C (short term to 80°C)
Storage temperature	10 to 40°C

MATERIAL DESIGN	
Explosion vent	Carbon steel with an anti-corrosion coating

OPTIONAL ACCESSORIES	
Flange gaskets	EPDM
Bolting materials	Screws ISO 4017 – 8.8, Nut ISO 4070, Washers ISO 7090 (all in galvanized finish)
Installation Flange	Carbon steel



BASIC DIMENSIOS



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Type	Density [kg/m ²]	Escape area [m ²]	p _{stat,max} [kPa]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Number of screws [ks]	Type of screws [ISO 4017]	Type of nuts [ISO 7040]	Type of washers [ISO 7090]	Tightening torque [N.m ⁻¹]
450x800	26	0,36	5	560	910	590	940	71	22	M10x35	M10	10	21
282x637	28	0,18	5	390	710	420	740	18					
2x282x637	28	0,36	5	390	1390	420	1420	28					

