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EXPLOSION DOOR EXDOOR AxB M

ExDoor – explosion door – is designed to vent off explosive pressure at a value lower than the safe static overpressure of the inner space of the protected device. This reduces the explosion to a value lower than the permissible pressure capacity of the protected equipment.

Under the designed operating conditions, the inner space of protected equipment of the ExDoor is sealed off. The vent panel on the frame bursts during an explosion, causing the vent path to open up.

The vent panel of the assembly around the circumference of the ExDoor. The number of magnets for the assembly of vent panel determines the magnitude of the pulling force. These magnets hold the vent panel in the closed position. When the overpressure is created under the vent panel, the pulling force of the magnet is overcome, which leads to the opening of the explosion door and mitigation of the explosion pressure. The protected device is exposed to a pressure lower than its pressure resistance. Explosion door front cover is attached to the frame with anchor chains.

CLASSIFICATION OF EXDOOR	
Equipment group	II
Explosive atmosphere	D
Dust class	St2
Operating temperature	-40 °C to +70 °C
Storage temperature	10 °C to +40 °C

MATERIAL DESIGN	
Explosion door	carbon steel with an anti-corrosion coating

OPTIONAL ACCESSORIES	
Flange gasket	EPDM
Fasteners	screws ISO 4017 – min. strength 8.8, nuts ISO 4032, washers ISO 7089 (galvanized)
Installation flange	carbon steel

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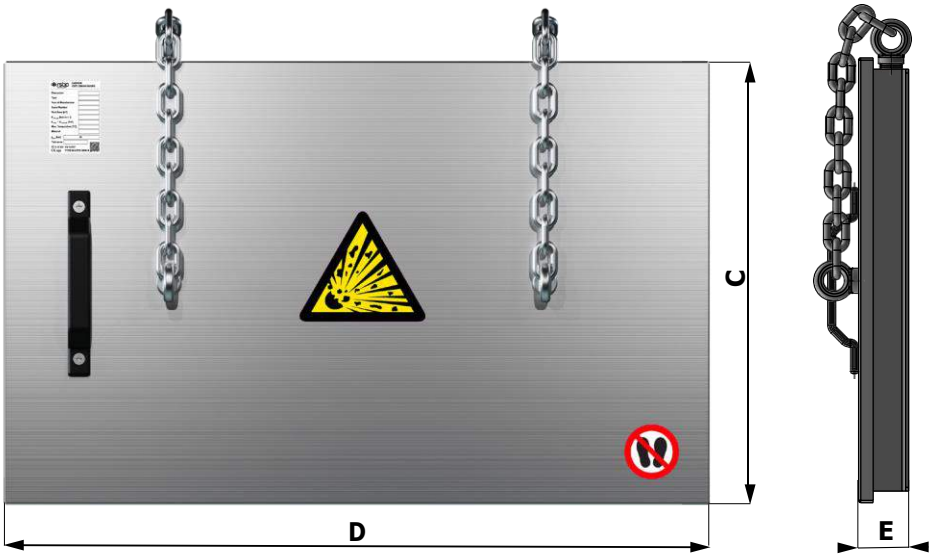
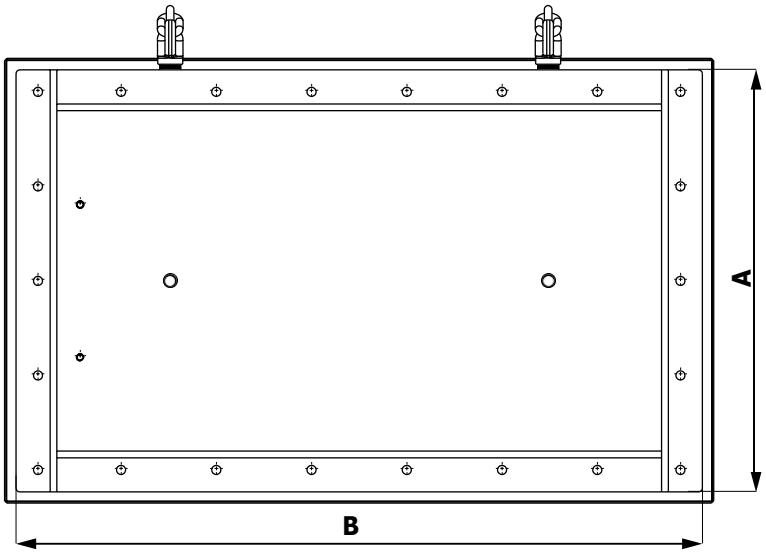
DIMENSIONAL DIAGRAM





TECHNICAL PARAMETERS

Type	Vent area [m2]	Pstat [kPa]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Fasteners				Bolt torque [N.m-1]
								Number of screws [pcs]	Screws type [ISO 4017]	Nuts type [ISO 4032]	Washers type [ISO 7089]	
450x800	0.358	3.5	560	910	590	940	71	22	M10	M10	10	21