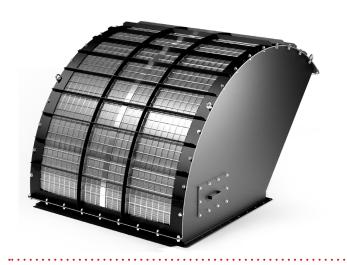
DATASHEET



FLEX R PRO - FLAMELESS EXPLOSION VENTING DEVICES



This is a safety device designed to relieve and release explosions developing inside a protected device that is in an explosive environment. In the event of an explosion, FLEX captures the explosive energy (flame, pressure) emerging from the open explosion relief device. Thanks to the special design of the flame filter, it cools the temperature of the flame and exhaust gases during the explosion to a level that is no longer dangerous to technology and to people in the proximity. FLEX R PRO consists of the VENT PRO explosion relief device and the welded FLEX II body equipped with a flame filter. It is equipped with an opening indicator for electronic signaling of the VENT PRO breach.

This data sheet describes the technical parameters of the FLEX R PRO device, which has a rectangular base. They are manufactured with the standard EN 16009 and European Directive 2014/34/EU.

FLEX CLASSIFICATION

Equipment group		II			
Explosive atmosphere		D			
Equipment category, indoor/outdoor		1 D 3G / 3G D			
Zone	indoor	20			
	outdoor	2, 22			
Max. K _{st} - non metalic dust		≤ 240 bar m/s			
Ambient temperature		-40 °C to 60 °C			
Operating temperature		-40 °C to 100 °C (optional up to 240 °C)			
Storage temperature		-10 °C to 40 °C			
P _{red,max}		up to 0,6 bar			

MATERIAL

Body	structural steel material with RAL 9005 (black) powder coated finish, other colors can be supplied depending on customer requirements				
Flame filter	stainless steel				
Explosion venting device	stainless steel it is also an integral part of FLEX, to which it is attached with adhesive, including the opening indicator				
Flange gasket	EPDM supplied with FLEX				
Fasteners	screws ISO 4017 – 8.8, nuts ISO 7040 – 8, washers ISO 7089 all is supplied with galvanized fasteners				

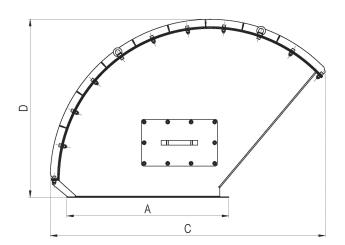


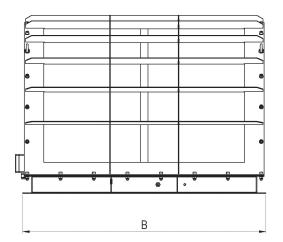
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OPTIONAL ACCESSORIES

Protective bag	it is used to cover the working surface of the FLEX flame filter to prevent foreign particles from entering the filter screens, it is recommended for use in dusty environments., In the event of an explosion, the bag will rupture and the energy absorption process will be uninterrupted				
Intrinsically safe relay	it creates an interface between the safe and unsafe zone				
Special flange gasket	in addition to the standard flange gasket, gaskets made from special materials precisely suited to the customer's specific application can also be provided				

DIMENSIONS SCHEME





Туре	Code	A [mm] [(in)]	B [mm] [(in)]	C [mm] [(in)]	D [mm] [(in)]	d - screw holes diameter [mm]	n - num- ber of bolt holes [pcs.]	Weight [kg] [(lbs)]
FLEX R1 PR0 —	R-FLM-R1-VPD-10	390 (15,4)	710 (28)	635	410	12	18	45 (99)
FLEX RIPRU —	R-FLM-R1-VPT-10			(25)	[16,2]			
ELEV DO DDO	R-FLM-R2-VPD-10	540 (21,3)	890 (35)	900 (35,4)	580 (22,8)	12	22	90 (198)
FLEX R2 PR0 —	R-FLM-R2-VPT-10							
FLEX R3 PR0 —	R-FLM-R3-VPD-10	666 [26,3]	1000 (39,4)	1130 (44,5)	735 (28,9)	12	34	125 (276)
FLEX R3 PRU —	R-FLM-R3-VPT-10							
	R-FLM-R4-VPD-10	996 (39,3)	1198 (47,2)	1660 (65,4)	1070 (42,1)	12	42	220 (485)
FLEX R4 PR0 —	R-FLM-R4-VPT-10							