Fire and explosion protection

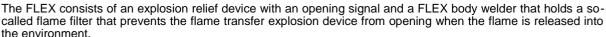
DATASHE

FLEX R PRO

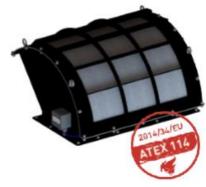
If there is an explosive atmosphere in the form of a swirling cloud of dust and if this cloud comes in contact with a source of initiation, an explosion may occur immediately.

To protect technology, the so-called explosion relief device opens to allow the flame, dust, and fumes to escape into the environment, resulting in a drop in explosive pressure below the threshold to ensure that technology is not damaged.

Release of explosion into the environment is not suitable for applications where the released explosion may cause damage to health or property (for example inside buildings). In this case, it is necessary to use the device for flameless relief, FLEX.



The FLEX R is designed in accordance with European Directive 2014/34 / EU.





FLEX SPECIFICATION Ш Equipment group Explosive atmosphere D Equipment category, interior / exterior 1 D 3G / 3G D Zone - interior 20, 21, 22 - exterior 2.22 220 to 240 bar m/s Max K_{st} - organic dust -20°C to 60°C Ambient temperature Operating temperature -20°C to 100°C Storage temperature 10°C to 40°C to 0,6 bar P red max

MATERIAL DESIGN				
Body	Structural steel, with the surface treatment RAL 9005 (black). Different colours can be supplied upon the customer request.			
Flame filter	Stainless steel			
Explosion venting device	Stainless steel. Together with position sensor is an integral part of FLEX. Glued.			
Flange gasket	EPDM. Supplied with FLEX			
Bolting material	Screws ISO 4017 – 8.8, nuts ISO 4070 – 8, washers ISO 7090 All supplied with FLEX. Galvanized.			



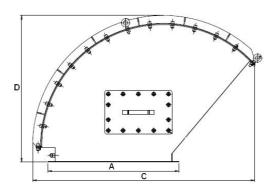


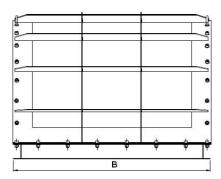
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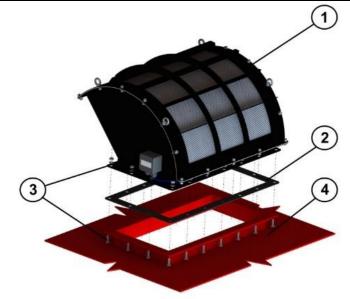
OPTIONAL ACCESSORIES							
The protective bag	The protective bag is intended to cover the functional area of the FLEX flame filter, of any penetration of foreign particles in the filter meshes reducing. The protective bag is recommended for the use in dusty premises. In the case of explosion, the bag breaks and the energy is absorbed without any disturbance.						
The intrinsically safe relay	Forms the interface between the safe and hazardous zones.						
The special flange gasket	In addition to a standard flange packing, seals can also be supplied from special materials that suit exactly the customers application.						

Dimensional scheme:





TYPE	Code	A [mm] [(in)]	B [mm] [(in)]	C [mm] [(in)]	D [mm] [(in)]	d – opening diameter [mm]	n – number of openings [ks]	Weight [kg] [(lbs)]
FLEX R1	R-FML-R1-D	390 (15,4)	710 (28)	635 (25)	410 (16,2)	14	18	40 (88)
	R-FML-R1-SU							
FLEX R2	R-FML-R2-D	540 (21,3)	890 (35)	900 (35,4)	580 (22,8)	14	22	74 (163)
	R-FML-R2-SU							
FLEX R3	R-FML-R3-D	666 (26,3)	1000 (39,4)	1130 (44,5)	735 (28,9)	14	34	109 (240)
	R-FML-R3-SU							
FLEX R4	R-FML-R4-D	996 (39,3)	1198 (47,2)	1660 (65,4)	1070 (42,1)	14	42	215 (473)
	R-FML-R4-SU							



The exploded view of the rectangular FLEX

(1 – FLEX, 2 – flange gasket, 3 – bolting materials, 4 – protected technology)



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