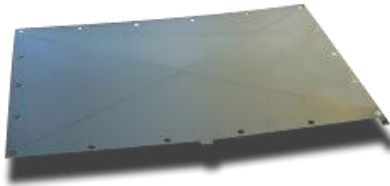


PS/R e PS/C type explosion vent panels

Donadon PS/R (rectangular) and PS/C (circular) explosion vent panels are composite tension panels composed of three parts:



- A slotted, perforated metal part
- A seal membrane (usually in PTFE)
- A protection section

In addition vacuum support is available

Suitable for use with gas in static, pulsating and cyclic conditions. PS explosion vent panels are available in square, rectangular or circular models. They usually have very low vent or vacuum

pressures.

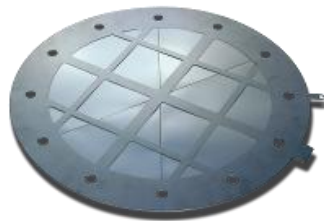
PS/R and PS/C explosion vent panels are mainly fitted to dust manifolds, dryers, troughs, silos, separators, mixers, boosters, air filters and sieves.

They can be fitted between welded frames or non-machined profiles in carbon or stainless steel. Machined frames or expensive holders are not necessary.



Explosion vent panels may be supplied in ATEX execution,

certified Ex II 2 GD. Some models may also be certified Ex II GD and may therefore be installed in locations with presence of explosive atmospheres (locations classified as category 0,20, 1, 21, 2 and 22) according to European Directive 94/9/EC (ATEX).



Explosion vent panels available in ATEX certified execution are both the rectangular (PS/Ex/R) and circular (PS/Ex/C) models

For these applications we recommend the intrinsic safety alarm system IRP certified Ex ia IIC T6 according to European Directive 94/9/EC (ATEX).

Technical Properties

Model	PS/R e PS/C
Materials	Stainless steel, Aluminium, Nickel, Hastelloy, Inconel, Monel
Membrane	PTFE, FEP, Mylar, Stainless steel, Aluminium
Dimensions	PS/R: Min: 300x300 - Max: 1120x1750 PS/C: Min: 250 - Max: 1100
Rupture pressure	0,05 – 0,5 bar g
Tolerance	from +/- 10 % to +/- 20% function of rupture pressure
Operating temperature	Up to 315°C
operating margin	50 - 70 %
Fragmentation	No (membrane only)
ATEX	Yes
Corrosion resistance	Good – may be protected with a membrane
Vacuum support	Available
Alarm system	IRP
Linings	Protection membrane

DONADON SDD Srl

Via Franceschelli, 7 – 20011 Corbetta (Milano) - Internet: www.Donadonsdd.com

Tel: +39 02 90 11 10 01; Fax: +39 02 90 11 22 10 – Email: donadonsdd@donadonsdd.com

Standard sizes and performances

Rectangular explosion vent panels PS/R

Nominal dimensions		Vent area	Vent area with vacuum support	Rupture pressure	
mm	mm	m ²	m ²	Minimum Bar g	Maximum Bar g
300	300	0,09	0,07	0,05	0,2
300	460	0,14	0,11	0,05	0,2
300	610	0,18	0,15	0,05	0,2
460	460	0,21	0,17	0,05	0,2
365	645	0,24	0,19	0,05	0,2
310	780	0,24	0,19	0,05	0,2
460	610	0,28	0,22	0,05	0,2
490	590	0,29	0,23	0,05	0,2
450	710	0,32	0,26	0,05	0,2
645	645	0,42	0,33	0,05	0,2
710	710	0,50	0,40	0,05	0,2
586	920	0,54	0,43	0,05	0,2
675	875	0,59	0,47	0,05	0,2
1000	710	0,71	0,57	0,05	0,2
890	928	0,83	0,66	0,05	0,2
920	920	0,85	0,68	0,05	0,2
920	1000	0,92	0,74	0,05	0,2
1000	1000	1,00	0,80	0,05	0,2
1120	1120	1,25	1,00	0,05	0,2
1120	1750	1,96	1,57	0,05	0,2

Circular explosion vent panels PS/C

Nominal dimensions		Vent area	Vent area with vacuum support	Rupture pressure	
inches	mm	m ²	m ²	Minimum Bar g	Maximum Bar g
10	250	0,05	0,04	0,05	0,2
12	300	0,07	0,06	0,05	0,2
16	400	0,13	0,10	0,05	0,2
20	500	0,20	0,16	0,05	0,2
24	600	0,28	0,23	0,05	0,2
28	700	0,38	0,31	0,05	0,2
32	800	0,50	0,40	0,05	0,2
36	900	0,64	0,51	0,05	0,2

(Other dimensions and rupture pressures on request)

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