

MV-RF

METAL VENT - RECTANGULAR FLAT

*OsecoElfab's MV-RF is an **all-metal explosion vent** for use where **product build-up is a concern**.*



Buy online - 10 day lead time
for common sizes

OsecoElfab's MV-RF explosion vent is an all metal design using a stainless steel controlling membrane (no fluoropolymer).

No holes or slits are visible, which makes the MV-RF vent excellent for applications, such as bag houses or bulk storage units, where product build-up may be a concern.

The vent may be exposed to system pressures up to 60% of the stamped burst pressure.

The MV-RF is also available with FDA-approved gaskets for use in sanitary service applications.

Size Range

- 8" x 8" to 44" x 69"

Set Pressure Range

- 0.2 psig to 10 psig

Warranty

- 1 year warranty as standard

Common Applications

- Applications where product build-up is a concern

Let us help you with all
your pressure relief questions.

US office | Broken Arrow

+1 (918) 258 5626 | info@osecoelfab.com

UK office | North Shields

+44 (0)191 293 1234 | uksales@osecoelfab.com

osecoelfab.com



TECHNICAL SPECIFICATIONS



Size range	8" x 8" to 44" x 69"
Set pressure range	0.2 - 10 psig (0.014 - 0.68 barg)
Operating Ratio	60%
Burst Tolerance	+/-0.5psig over 2 psig; +/-0.25 psig at or below 2 psig
Standard materials	316 Stainless Steel Silicone Sealant Neoprene Gasket (other gasket materials, including FDA gaskets, are available)
Fragmentation	Non-fragmenting design
Vacuum Service	Higher vacuum resistance than any other flat vent design
Design Standards	Meets NFPA 61 and NFPA 68 regulations

Related Products

Sensors

SVT-03

Accessories

Gaskets

Frames

Burst Pressure Ranges

MV-RF Explosion Vent Min/Max Burst Pressures (1/2)



SIZE		RELIEF AREA in ² (m ²)	MIN psig (barg)	MAX psig (barg)
inches	mm			
8 × 8	203 × 203	54.0 (0.03)	1.5 (0.10)	10.0 (0.68)
12 × 12	305 × 305	129.0 (0.08)	1.4 (0.09)	10.0 (0.68)
12 × 18	305 × 457	196.0 (0.12)	1.3 (0.09)	5.0 (0.34)
12 × 24	305 × 610	264.0 (0.17)	1.3 (0.09)	5.0 (0.34)
16 × 18	406 × 457	266.0 (0.17)	1.3 (0.09)	5.0 (0.34)
17.125 × 17.125	435 × 435	272.0 (0.17)	1.3 (0.09)	5.0 (0.34)
18 × 24	457 × 610	405.0 (0.26)	1.2 (0.08)	5.0 (0.34)
20 × 24	508 × 610	452.0 (0.29)	1.2 (0.8)	5.0 (0.34)
18 × 28	457 × 711	474.0 (0.30)	1.2 (0.08)	5.0 (0.34)
18 × 30	457 × 762	508.0 (0.32)	1.2 (0.08)	5.0 (0.34)
24 × 24	610 × 610	546.0 (0.35)	1.2 (0.08)	5.0 (0.34)
18 × 35	457 × 889	595.0 (0.38)	1.2 (0.08)	5.0 (0.34)
18 × 36	457 × 914	612.0 (0.39)	1.2 (0.08)	5.0 (0.34)
24 × 30	610 × 762	685.0 (0.44)	1.1 (0.07)	5.0 (0.34)
24 × 36	610 × 914	825.0 (0.53)	1.0 (0.06)	5.0 (0.34)
30 × 30	762 × 762	862.0 (0.55)	1.0 (0.06)	5.0 (0.34)
20 × 48	508 × 1219	914.0 (0.58)	1.0 (0.06)	5.0 (0.34)
27 × 36	686 × 914	931.0 (0.60)	1.0 (0.06)	5.0 (0.34)
25 × 40	635 × 1016	957.0 (0.61)	1.0 (0.06)	5.0 (0.34)
27 × 39	686 × 991	1010.0 (0.65)	1.0 (0.06)	5.0 (0.34)
24 × 44	610 × 1118	1011.0 (0.65)	1.0 (0.06)	5.0 (0.34)
25 × 43	635 × 1092	1030.0 (0.66)	1.0 (0.06)	5.0 (0.34)
27 × 40	686 × 1016	1036.0 (0.66)	1.0 (0.06)	5.0 (0.34)

Burst Pressure Ranges

MV-RF Explosion Vent Min/Max Burst Pressures (2/2)



SIZE		RELIEF AREA in ² (m ²)	MIN psig (barg)	MAX psig (barg)
inches	mm			
30 × 36	762 × 914	1038.0 (0.66)	1.0 (0.06)	5.0 (0.34)
24 × 47	610 × 1194	1081.0 (0.69)	1.0 (0.06)	5.0 (0.34)
24 × 48	610 × 1219	1104.0 (0.71)	0.9 (0.06)	5.0 (0.34)
27 × 43	686 × 1092	1115.0 (0.71)	0.9 (0.06)	5.0 (0.34)
25 × 47	635 × 1194	1127.0 (0.72)	0.9 (0.06)	5.0 (0.34)
25 × 49	635 × 1245	1176.0 (0.75)	0.9 (0.06)	5.0 (0.34)
36 × 36	914 × 914	1251.0 (0.80)	0.8 (0.05)	5.0 (0.34)
30 × 44	762 × 1118	1272.0 (0.82)	0.8 (0.05)	5.0 (0.34)
27 × 52	686 × 1321	1351.0 (0.87)	0.7 (0.04)	5.0 (0.34)
30 × 48	762 × 1219	1389.0 (0.89)	0.7 (0.04)	5.0 (0.34)
38 × 38	965 × 965	1396.0 (0.90)	0.7 (0.04)	5.0 (0.34)
27 × 58	686 × 1473	1509.0 (0.97)	0.7 (0.04)	5.0 (0.34)
27.5 × 57.1	698 × 1450	1512.0 (0.97)	0.7 (0.04)	5.0 (0.34)
36 × 44	914 × 1118	1533.0 (0.98)	0.7 (0.04)	5.0 (0.34)
25 × 66	635 × 1676	1588.0 (1.02)	0.6 (0.04)	5.0 (0.34)
27 × 66	686 × 1676	1719.0 (1.10)	0.5 (0.03)	5.0 (0.34)
30 × 60	762 × 1524	1740.0 (1.12)	0.5 (0.03)	5.0 (0.34)
42 × 44	1067 × 1118	1794.0 (1.15)	0.5 (0.03)	5.0 (0.34)
44 × 44	1118 × 1118	1881.0 (1.21)	0.5 (0.03)	5.0 (0.34)
44.5 × 44.5	1130 × 1130	1925.0 (1.24)	0.5 (0.03)	5.0 (0.34)
36 × 60	914 × 1524	2097.0 (1.35)	0.5 (0.03)	5.0 (0.34)
44 × 60	1118 × 1524	2573.0 (1.66)	0.3 (0.02)	5.0 (0.34)
42 × 65	1067 × 1651	2660.0 (1.71)	0.3 (0.02)	5.0 (0.34)
44 × 69	1118 × 1753	2962.0 (1.91)	0.2 (0.01)	5.0 (0.34)