

# MV-RD

METAL VENT - RECTANGULAR DOMED

**OsecoElfab's MV-RD is ideal for bag houses, dust collectors bulk storage units requiring a rectangular vent.**



Buy online - 10 day lead time  
for common sizes

### Size Range

- 12" x 12" to 36" x 44"

### Set Pressure Range

- 1.5 psig to 14 psig

### Warranty

- 2 year warranty as standard

### Common Applications

- Ductwork, Bag Houses, Bulk Storage, Dust Collection

OsecoElfab's MV-RD explosion vent is designed for high cycling applications such as dust collectors and bag houses, and for bulk storage units and ductwork applications requiring a rectangular vent.

It may be exposed to system pressures up to 80% of the stamped burst pressure range, and is suitable for applications that experience vacuum pressure up to 12psig/24.4 inHg.

The MV-RD's high cycling characteristics reduce maintenance and increase the vent's life cycle. It mounts on enclosures where dust explosions may occur, and will activate to safely relieve pressure in the event of a deflagration, thereby preventing a large explosion.

Let us help you with all  
your pressure relief questions.

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REQUEST A QUOTE OR  
BUY DIRECT ONLINE



# TECHNICAL SPECIFICATIONS



|                    |   |
|--------------------|---|
| Size range         | 12" x 12" to 36" x 44"  |
| Set pressure range | 1.5 - 14 psig (0.1 - 0.96 barg)   |
| Temperature range  | -20°F to 150°F (-28°C to 65°C)  |
| Operating Ratio    | 80%   |
| Burst Tolerance    | +/-0.25 psig  |
| Standard materials | 316 Stainless Steel<br>Silicone Sealant<br>Neoprene Gasket (other gasket materials, including FDA gaskets, are available) |
| Fragmentation      | Non-fragmenting design  |
| Vacuum Service     | Vacuum Range 10 psig to 12 psig/20 inHg to 24inHg   |
| Design Standards   | Meets NFPA 61 and NFPA 68 regulations   |

## Related Products

### Sensors

SVT-03

### Accessories

Gaskets

Frames

# Burst Pressure Ranges

## MV-RD Explosion Vent Min/Max Burst Pressures



| SIZE    |            | RELIEF AREA<br>in <sup>2</sup> (m <sup>2</sup> ) | MIN<br>psig (barg) | MAX<br>psig (barg) | VACUUM<br>psig (barg) |
|---------|------------|--|--------------------|--------------------|-----------------------|
| inches  | mm         |  |                    |                    |                       |
| 12 x 12 | 305 x 305  | 129.0 (0.08)                                     | 2.5 (0.17)         | 14.0 (0.96)        | 12.0 (0.83)           |
| 12 x 24 | 305 x 610  | 264.0 (0.17)                                     | 1.25 (0.08)        | 8.0 (0.55)         | 12.0 (0.83)           |
| 18 x 24 | 457 x 610  | 405.0 (0.26)                                     | 1.25 (0.08)        | 6.25 (0.43)        | 10.0 (0.69)           |
| 24 x 24 | 610 x 610  | 546.0 (0.35)                                     | 1.25 (0.08)        | 4.25 (0.29)        | 12.0 (0.83)           |
| 18 x 35 | 457 x 889  | 595.0 (0.38)                                     | 1.5 (0.10)         | 6.75 (0.46)        | 12.0 (0.83)           |
| 24 x 36 | 610 x 914  | 825.0 (0.53)                                     | 1.25 (0.08)        | 4.25 (0.29)        | 12.0 (0.83)           |
| 36 x 36 | 914 x 914  | 1251.0 (0.80)                                    | 1.25 (0.08)        | 2.25 (0.15)        | 12.0 (0.83)           |
| 36 x 44 | 914 x 1118 | 1533.0 (0.99)                                    | 1.0 (0.67)         | 2.0 (0.14)         | 10.0 (0.69)           |