

# GLVF

## GASKET LINED VENT

*A lightweight solution to protect bucket elevators during deflagrations*



The OsecoElfab GLVF is an excellent solution for protecting bucket elevators during deflagrations. The lightweight vent features a built-in gasket and built-in outlet frame that eliminates the need to fabricate an angle iron hold down frame.

Designed to meet the requirements of NFPA 61, the GLVF is an economical solution, available for the most commonly used sizes. An alarm sensor available for automatic system shut-down should the vent activate.

|                            |                           |
|----------------------------|---------------------------|
| <b>Size</b>                | Customizable              |
| <b>Burst Pressure</b>      | Customizable              |
| <b>Operating Ratio</b>     | 50%                       |
| <b>Burst Tolerance</b>     | +/-0.25 psig at 0.75 psig |
| <b>Common Applications</b> | Bucket elevators          |

**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](http://osecoelfab.com)



# TECHNICAL SPECIFICATIONS



|                       |  |
|-----------------------|--|
| Size range            | 9"x12", 12"x18", 18"x24" (Custom sizes available on request) |
| Pressure range        | Custom pressures available on request - contact factory      |
| Temperature range     | -40°F to 180°F (-40° to 82°C)                                |
| Standard materials    | 316 Series Stainless Steel, Closed cell foam                 |
| Max. Operating Ratio  | 50% of stamped maximum burst pressure                        |
| Performance Tolerance | +/-0.25 psig at 0.75 psig                                    |
| Fragmentation         | Non-fragmenting design                                       |
| Vacuum Service        | Not recommended for vacuum service                           |
| Design Standards      | Meets the requirements of NFPA 61                            |

## Related Products

### Sensors

SVT-03



## Free Flow Area / Minimum Net Flow Area (MNFA)

| NOMINAL BORE |         | MNFA     |                 |
|--------------|---------|----------|-----------------|
| inches       | DN (mm) | Sq. Inch | mm <sup>2</sup> |
| 1            | 25      | 0.864    | 557             |
| 1.5          | 40      | 2.036    | 1,313           |
| 2            | 50      | 3.355    | 2,164           |
| 3            | 80      | 7.393    | 4,769           |
| 4            | 100     | 12.73    | 8,212           |
| 6            | 150     | 28.89    | 18,638          |
| 8            | 200     | 50.0     | 32,258          |
| 10           | 250     | 78.9     | 50,903          |
| 12           | 300     | 113.1    | 72,967          |
| 14           | 350     | 137.9    | 88,967          |
| 16           | 400     | 176.7    | 113,999         |
| 18           | 450     | 233.7    | 150,773         |
| 24           | 600     | 424.6    | 273,934         |

## Burst Tolerance

+/-5% > 40 psig  
+/-5% > 2.8 barg

+/-2 psig ≤ 40 psig  
+/-0.14 barg ≤ 2.8 barg

## K<sub>R</sub> Value (Frictional Loss Factor)

| K <sub>R</sub>  | PRO+ | PRO+KRGL |
|-----------------|------|----------|
| K <sub>RG</sub> | 0.29 |          |
| K <sub>RL</sub> |      | 0.69     |