

# XPLO-VENT FV-C

SINGLE SKINNED, CURVED FLAMELESS VENTING (FV) PANEL

**Curved explosion panels designed and certified for use inside the Xplo-Gard™ flameless vents for cylindrical vessels**



The FV-C panels are rectangular, single-skinned, metal vents. We curve the flat panel to a custom radius for direct installation onto cylindrical vessels. FV-C panels are suitable for applications with a low vacuum or low working pressure (up to 50% of static burst pressure). Typical applications include bucket elevators, conveyors, silos, and cyclones.

The FV-C panel comes ready to bolt into the Xplo-Gard vent bodies with an integral flange and gasket. The wide gasket provides a fully dust-proof seal.

The standard burst pressure is 1.45 psi / 0.1 bar (max. 7 psi / 0.5 bar) at 22°C (72°F). To ensure the correct burst pressure is achieved, the FV-C panel is tested after the curve has been formed.

### Size Range

- 7" x 19" to 44" x 44" / 170x470mm to 1130x1130mm

### Set Pressure Range

- 1.45 - 7 psi / 0.1 - 0.5 bar

### Efficiency Ratio

- 80% - 100%

### Common Applications

- Bucket Elevators, Conveyors, Silos, Cyclones

**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)

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XPLO-GARD WITH THE  
FV-C PANEL**



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# TECHNICAL SPECIFICATIONS



Size range	7" x 19" to 44" x 44" / 170 x 470mm to 1130 x 1130mm
Set pressure range (Pstat @ 72°F / 22°C)	1.45 - 7 psi / 0.1 - 0.5 bar
Temperature range	Standard EPDM gasket: -40°F to 176°F / -40°C to 80°C High temperature graphite gasket: -328°F to 932°F / -200°C to 500°C Silicone gasket: -76°F to 392°F / -60°C to 200°C
Efficiency Ratio	80% - 100%
Burst Tolerance	+/- 25% (1.45 - 2.9 psi / 0.1 - 0.2 bar) +/- 20% (2.9 - 7 psi / 0.2 - 0.5 bar)
Standard materials	Panel: 304L Stainless Steel (316L available on request) Flange: 304L Stainless Steel (316L available on request) Gasket: EPDM (High-temperature graphite or FDA / 1935/2004 CE silicone gaskets available on request)
Fragmentation	Non-fragmenting design
Vacuum Service	Max vacuum resistance: 0.7 psi / 50 mbar
Kst Max	500 bar m/s
Design Standards	Meets NFPA 68 and ATEX regulations

## Certifications

ATEX Ex II GD:  
*INERIS 23ATEX0019X*

ATEX Quality Assurance Notification:  
*ITS19ATEXQ05062*

CE

## Related Products

**Flameless Vents**  
Xplo-Gard CURVE

# Xplo-Vent FV-C Dimensions

for installation in Xplo-Gard



INTERNAL DIMENSIONS*		EXTERNAL DIMENSIONS*		MAX. RELIEF AREA*	
inches	mm	inches	mm	in <sup>2</sup>	cm <sup>2</sup>
7" x 19"	170 x 470	10" x 22"	250 x 550	121.7	785
11" x 18"	270 x 458	14" x 21"	350 x 538	189	1,220
12" x 20"	300 x 500	15" x 23"	380 x 580	229.4	1,480
12" x 24"	305 x 610	15" x 27"	386 x 690	286	1,845
14" x 26"	350 x 650	17" x 29"	430 x 730	349.5	2,255
19" x 23"	490 x 590	22" x 26"	570 x 670	444	2,865
24" x 24"	610 x 610	27" x 27"	690 x 690	572.7	3,695
18" x 35"	457 x 890	21" x 38"	537 x 970	626	4,040
23" x 36"	586 x 920	26" x 39"	666 x 1000	830.8	5,360
25" x 44"	645 x 1130	29" x 48"	735 x 1220	1,123	7,250
36" x 36"	920 x 920	39" x 39"	1000 x 1000	1,305	8,425
44" x 44"	1130 x 1130	48" x 48"	1220 x 1220	1,971	12,720

\*The guiding dimensions are metric; conversions to inches are approximate.

# Xplo-Vent FV-C Dimensions

for standalone use (page 1/2)



INTERNAL DIMENSIONS*		EXTERNAL DIMENSIONS*		MAX. RELIEF AREA*	
inches	mm	inches	mm	in <sup>2</sup>	cm <sup>2</sup>
4" x 11"	110 x 290	7" x 14"	174 x 354	44.9	290
6" x 23"	150 x 600	9" x 27"	230 x 680	137.1	885
7" x 19"	170 x 470	10" x 22"	250 x 550	121.7	785
9" x 9"	229 x 229	12" x 12"	310 x 310	79.8	515
9" x 12"	229 x 305	12" x 15"	310 x 386	106.9	690
9" x 17"	220 x 420	12" x 20"	300 x 500	141	910
10" x 24"	247 x 610	13" x 27"	327 x 690	230.1	1,485
11" x 18"	270 x 458	14" x 21"	350 x 538	189	1,220
12" x 20"	300 x 500	15" x 23"	380 x 580	229.4	1,480
12" x 23"	300 x 600	14" x 26"	366 x 666	248.7	1,605
12" x 18"	305 x 457	15" x 21"	386 x 538	241.6	1,385
12" x 24"	305 x 610	15" x 27"	386 x 690	286	1,845
12" x 30"	319 x 765	16" x 33"	405 x 850	384.4	2,480
13" x 15"	340 x 385	16" x 18"	404 x 449	193.7	1,250
13" x 17"	340 x 440	16" x 20"	404 x 504	221.6	1,430
14" x 26"	350 x 650	17" x 29"	430 x 730	349.5	2,255
15" x 25"	375 x 655	18" x 29"	460 x 740	378.9	2,445
15" x 24"	390 x 620	19" x 27"	470 x 700	371.2	2,395
16" x 16"	410 x 410	19" x 19"	480 x 480	257.3	1,660
16" x 20"	420 x 520	19" x 23"	500 x 600	335.5	2,165
16" x 36"	420 x 920	19" x 39"	500 x 1000	524.6	3,385
18" x 35"	457 x 890	21" x 38"	537 x 970	626	4,040
19" x 19"	490 x 490	22" x 22"	570 x 570	368.9	2,380
19" x 23"	490 x 590	22" x 26"	570 x 670	444	2,865
19" x 24"	470 x 610	22" x 27"	550 x 690	441	2,845
19" x 27"	480 x 680	22" x 30"	580 x 780	505.3	3,260

\*The guiding dimensions are metric; conversions to inches are approximate.  
Other sizes are available on request.

# Xplo-Vent FV-C Dimensions

for standalone use (page 2/2)



INTERNAL DIMENSIONS*		EXTERNAL DIMENSIONS*		MAX. RELIEF AREA*	
inches	mm	inches	mm	in <sup>2</sup>	cm <sup>2</sup>
20" x 20"	520 x 520	23" x 23"	600 x 600	415.4	2,680
20" x 24"	520 x 620	23" x 27"	600 x 700	496	3,200
20" x 40"	520 x 1020	23" x 43"	600 x 1100	816.8	5,270
23" x 30"	580 x 780	26" x 34"	670 x 870	696.7	4,495
23" x 36"	586 x 920	26" x 39"	666 x 1000	830.8	5,360
23" x 46"	580 x 1180	34" x 50"	670 x 1270	1,054.7	6,805
24" x 24"	610 x 610	27" x 27"	690 x 690	572.7	3,695
24" x 44"	610 x 1118	27" x 47"	690 x 1198	1,051	6,785
25" x 25"	645 x 645	29" x 29"	740 x 740	640.1	4,130
25" x 44"	645 x 1130	29" x 48"	735 x 1220	1,123	7,250
26" x 26"	653 x 653	29" x 29"	740 x 740	660.3	4,260
27" x 27"	680 x 680	30" x 30"	780 x 780	712.2	4,595
28" x 40"	720 x 1020	31" x 43"	800 x 1100	1,131	7,300
30" x 30"	780 x 780	35" x 35"	880 x 880	942.4	6,080
30" x 46"	780 x 1180	35" x 50"	880 x 1280	1,419	9,160
31" x 39"	800 x 1000	35" x 43"	890 x 1090	1,233	7,960
35" x 35"	880 x 880	39" x 39"	980 x 980	1,193	7,700
36" x 44"	915 x 1118	39" x 47"	996 x 1198	1,581	10,200
36" x 36"	920 x 920	39" x 39"	1000 x 1000	1,305	8,425
39" x 39"	980 x 980	42" x 42"	1080 x 1080	1,488	9,600
39" x 39"	1000 x 1000	41" x 41"	1056 x 1056	1,500	9,680
40" x 40"	1020 x 1020	43" x 43"	1100 x 1100	1,605	10,360
42" x 42"	1080 x 1080	46" x 46"	1180 x 1180	1,798	11,600
44" x 44"	1130 x 1130	48" x 48"	1220 x 1220	1,971	12,720
46" x 46"	1180 x 1180	50" x 50"	1280 x 1280	2,150	13,875
39" x 79"	1000 x 2000	42" x 82"	1080 x 2080	3,090	19,1940

\*The guiding dimensions are metric; conversions to inches are approximate.  
Other sizes are available on request.