

EVN 3.0

EXPLOSION RELIEF VALVE

PRODUCT INFORMATION SHEET



CAPT-AIR®

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Description

Many process vessels are located inside a building or areas where standard explosion venting cannot be safely employed. For these applications, the IEP Technologies EVN3.0 flameless explosion vent may be the best protection solution. When an explosion occurs, the EVN3.0 opens and vents the explosion pressure through a flame arrester, thereby cooling the hot gases and quenching the flame. The EVN3.0 integrated opening detection sensor provides an interface with the process control system and allows plant personnel to respond accordingly in case of an explosion within the protected application.

The IEP Technologies EVN3.0 flameless vent is self-closing which can reduce “post-event” downtimes. Also available is the EVN3.0H which includes a food grade silicone gasket.

Both the EVN3.0 and EVN3.0H are available in a latching model, EVN3.0NC. The EVN3.0NC opens and latches until manually released and can be used in conjunction with isolation flap valves which have been tested to EN16447 – “Alternate testing procedure”.

Advantages

- Provides explosion pressure relief without flame ejection
- Opens at low pressure setting (0.05 bar g)
- ATEX and NFPA compliant
- Operational to full vacuum
- Self-closing and Latching versions
- Reduced “post-explosion” downtimes due to immediate resealing (self-closing version)
- Virtually maintenance free
- Design crevice / void free reducing product residues (CIP -cleaning possible)
- Integrated counter flange gasket
- Fully compliant to:
 - EG 1935/2004 & 2023/2006
 - EN 16009
 - FDA 21 CFR 177.2600
 - NFPA 68

EVN3.0 Series



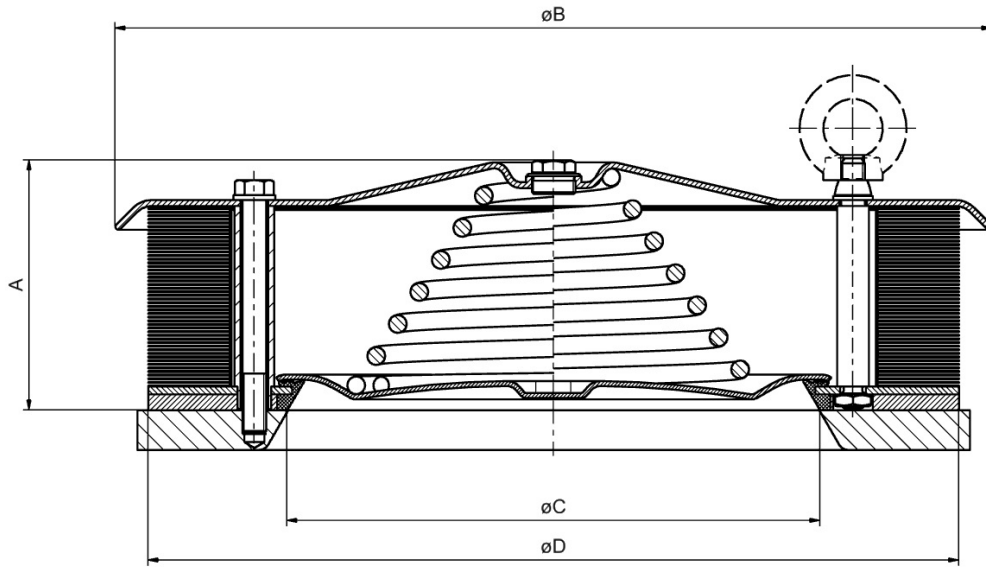
EVN 3.0H



EVN 3.0HNC

Application

Flameless explosion venting device designed specifically for use in standard or hygienic applications where ignitable dust substances are handled. This includes explosion protection for vessels such as product receivers, dust collectors, silos, dryers, bucket elevators and other mechanical conveying devices.



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Type	Geom. Relief Area* cm ² /in ²	Dimensions				Approx weight kg/lb
		A mm (in)	B mm (in)	C mm (in)	D mm (in)	
266EVN3.0	499/78	126 (4.96)	442.2 (17.5)	268.6 (10.57)	409 (16.1)	24/53
320EVN3.0	732/114	132 (5.2)	510 (20.08)	321.5 (12.66)	462 (18.19)	30/66
420EVN3.0	1260/195	156.5 (6.16)	625 (24.6)	416.6 (16.4)	579 (22.8)	50/110
480EVN3.0	1665/258	192.5 (7.58)	690 (27.17)	476.6 (18.76)	644 (25.35)	64/141
565EVN3.0	2300/365	213 (8.39)	790 (31.1)	562.2 (22.13)	735 (28.94)	97/214
645EVN3.0	2990/450	218 (8.58)	961 (37.83)	637.7 (25.11)	899 (35.39)	128/282
735EVN3.0	3905/605	251 (9.88)	961 (37.83)	727.7 (28.65)	910 (35.83)	137/302

* Effective venting relief area given in the EVN 3.0 Product Manual