

Non Return Valve EV-VF VigiFLAP

APPLICATIONS

The **VigiFLAP** is a non-return valve designed to prevent propagation of overpressure or flame front caused by an explosion downstream in vessels such as dust collectors, cyclones or filters into the piping system.

The valve is held open either by air flow or proprietary locking mechanism. As a result the VigiFLAP can be used to isolate either the inlet or outlet of a filter from explosion.

In the event of an explosion, the valve closes and locks preventing passage of the flame front (as required by NFPA regulations).



CERTIFICATIONS & STANDARDS

EN 16447 EN 15089 NFPA 69



STANDARD FEATURES

- Body: painted steel
- 100% stainless steel AISI 304
- Diameters : ø6" to ø52" / ø160 mm to ø1320 mm
- Gasket : EPDM (Silicone FDA 392°F/200°C option)
- Pressure drop: Lower pressure drop with round domed flap

OPTIONAL FEATURES

The EM-NRV is 100% NFPA 69 compliant with the following optional features:

- **Body**: Galvanized steel
- **Body**: Stainless steel
- Frame silicone FDA: 392°F/200 °C
- Accumulated dust level :
- Dust level sensor to prevent dust accumulation
- Connection box installed on the body, according to the ATEX zone (opposite side of the locking mechanism)





DIMENSIONS

TECHNICAL DATA								
PART NUMBER	DN (inch)	DN (mm)	Door gasket	Body gasket	Body			
50206 - 020211	ø 6	ø 160	EPDM	EPDM	Mild steel			
50207 - 020211	ø 7	ø 180	EPDM	EPDM	Mild steel			
50208 - 020211	ø 8	ø 200	EPDM	EPDM	Mild steel			
50210 - 020211	ø 10	ø 250	EPDM	EPDM	Mild steel			
50212 - 020211	ø 12	ø 300	EPDM	EPDM	Mild steel			
50214 - 020211	ø 14	ø 350	EPDM	EPDM	Mild steel			
50216 - 020211	ø 16	ø 400	EPDM	EPDM	Mild steel			
50218 - 020211	ø 18	ø 450	EPDM	EPDM	Mild steel			
50220 - 020211	ø 20	ø 500	EPDM	EPDM	Mild steel			
50222 - 020211	ø 22	ø 550	EPDM	EPDM	Mild steel			
50224 - 020211	ø 24	ø 600	EPDM	EPDM	Mild steel			
50226 - 020211	ø 26	ø 650	EPDM	EPDM	Mild steel			
50228 - 020211	ø 28	ø 700	EPDM	EPDM	Mild steel			
50230 - 020211	ø 30	ø 750	EPDM	EPDM	Mild steel			
50231 - 020211	ø 31	ø 800	EPDM	EPDM	Mild steel			
50233 - 020211	ø 33	ø 850	EPDM	EPDM	Mild steel			
50235 - 020211	ø 35	ø 900	EPDM	EPDM	Mild steel			
50237 - 020211	ø 37	ø 950	EPDM	EPDM	Mild steel			
50239 - 020211	ø 39	ø 1000	EPDM	EPDM	Mild steel			
50243 - 020211	ø 43	ø 1100	EPDM	EPDM	Mild steel			
50247 - 020211	ø 47	ø 1200	EPDM	EPDM	Mild steel			
50252 - 020211	ø 52	ø 1320	EPDM	EPDM	Mild steel			

^{*} Units in inches rounded to the closest whole number

FREE FLOWING DESIGN

The alignment of the VigiFlap Valve and piping system is designed to maintain a continuous self-cleaning air stream, with extremely low frictional resistance

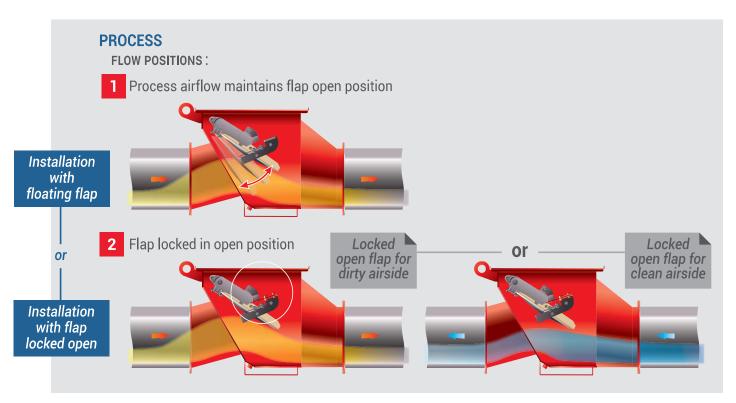


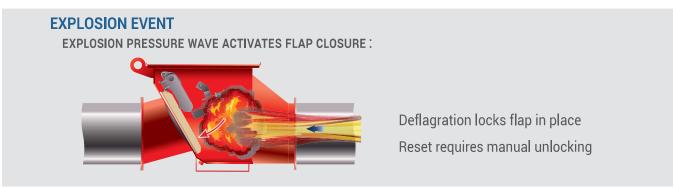
FREE FLOW DESIGN



Explosion Isolation Valve EV VigiFLAP

PROCESS FLOW POSITIONS





TECHNICAL INFORMATION

KST MAX	St1 ≤ 200 bar.m/s St2 ≤ 300 bar.m/s	DUST	Any kind of dust	POSITION OF THE DEVICE	Vertical / Horizontal
KST MIN	≤ 50 bar.m/s	AMBIENT TEMPERATURE	-4°F +140°F -20°C +60°C	FLUX	Overpressure or vacuum
PMAX	145 psi ≤ 10 bar	SPEED FLOW	2950-6890 fpm 15m/s 35m/s	FLOW TEMPERATURE	≤ 176° F ≤ 80° C
MESG	1/16" 1.5 mm (ex: sulfur)	DUST CONCENTRATION	No limit	INTERIOR	ATEX zone 20





EV VigiFLAP TYPICAL INSTALLATION CONFIGURATIONS

THE EV VigiFLAP IS DESIGNED FOR USE ON BOTH THE DIRTY AND CLEAN AIR SIDE OF FILTER, WITH OR WITHOUT ELBOWS

