

Explosion Diverter EV-VDIV

APPLICATIONS

The **Explosion Diverter EV-VDIV** valve with an explosion panel is the ideal addition to any exterior process flow duct system where there is potential for hazardous explosive overpressure or multiple explosive events. This device helps reduce the potential for system damage caused by high overpressure and rapid flame front expansion.



CERTIFICATIONS & STANDARDS

EN 14491
EN 14797
NFPA 69



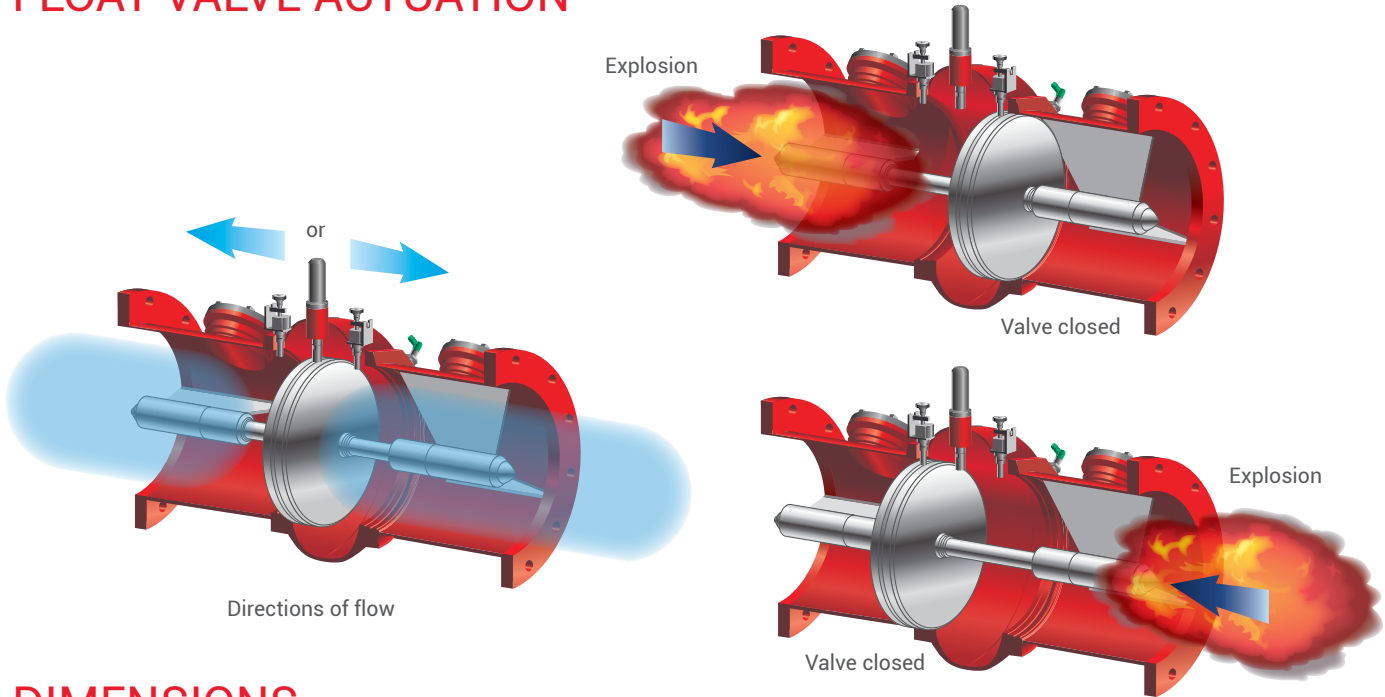
STANDARD FEATURES

- Flat explosion vent panel VL or domed explosion vent panel VD

OPTIONAL FEATURES

- Stainless steel construction

FLOAT VALVE ACTUATION



DIMENSIONS

		TECHNICAL DATA									
MODEL DIAMETER		DN	50	80	100	150	200	250	300	400	500
		Inch	2"	3"	4"	6"	8"	10"	12"	16"	20"
Min. explosion pressure		psi/mbar	0.70/50								
Max. explosion pressure at 68°F / 20°C		psig/bar abs	191/12 (increased operating temperature results in reduced strength)								
Air speed in direction of explosion		fpm / m/s	1970 - 5905 / 10 - 30								
Air speed in the direction against the explosion		fpm / m/s	6890 / 35								
Organic dusts	max. Kst	bar*m*s ⁻¹	300								
	min. installation distance	ft/m	7/2	7/2	7/2	7/2	10/3	10/3	10/3	10/3	10/3
	max. installation distance	ft/m	40/12	40/12	40/12	40/12	40/12	40/12	40/12	40/12	40/12
Gas < vapors, gas group IIB	max. Kst	bar*m*s ⁻¹	300								
	min. installation distance	ft/m	7/2	7/2	7/2	7/2	10/3	10/3	10/3	10/3	10/3
	max. installation distance	ft/m	26/8	26/8	26/8	26/8	8 26/8	26/8	26/8	26/8	26/8
Hybrid mixtures (Proportion of gas below the LEL)	max. Kst	bar*m*s ⁻¹	300								
	min. installation distance	ft/m	7/2	7/2	7/2	7/2	10/3	10/3	10/3	10/3	10/3
	max. installation distance	ft/m	40/12	40/12	40/12	40/12	40/12	40/12	40/12	40/12	40/12

Dimensions are rounded to the closest whole number

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