

Float Valve EM-FV

APPLICATIONS

The **Float Valve EM-FV** is designed as an explosion isolation device in air streams with low to moderate dust concentrations. The maximum allowed recommended particle size is approximately **500 microns**. A regular inspection and maintenance schedule is required to ensure that dust deposits that could interfere with the valve's function are not accumulating.



CERTIFICATIONS & STANDARDS

EN 15089
 NFPA 69

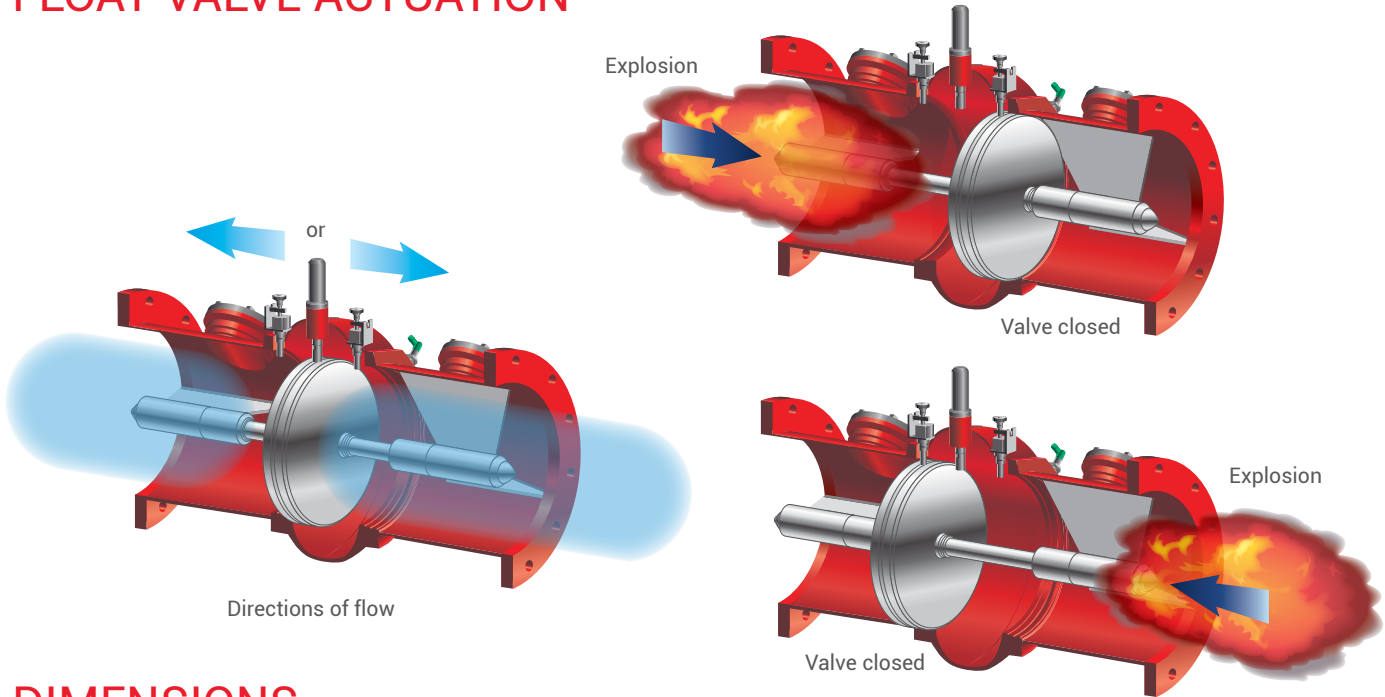


TECHNICAL INFORMATION

ORGANIC DUST	St1 ≤ 200 bar.m/s St2 ≤ 300 bar.m/s	MAXIMUM EXPLOSION OVERPRESSURE	160 psi 11 bar	STAINLESS STEEL	-4 °F to +482 °F -20 °C to +250 °C >250 °C / 482 °F on request
GAS	kg ≤ 100 bar.m/s	HUMIDITY	10 – 90% R.H. (non-condensing)	PROCESS PRESSURE	12 psi ≤ pR ≤ 16 psi 800 mbar ≤ pR ≤ 1100 mbar
HYBRID MIXTURE IIA AND ETHANOL	120% LEL	OPERATING TEMPERATURES	Aluminum -4 °F to + 248 °F -20 °C to +90 °C	FLOW SPEED IN THE EXPLOSION DIRECTION	1970 - 5905 fpm 10 - 30 m/s
HYBRID MIXTURE IIA+IIB	80% LEL / 120% LEL	STEEL	-4 °F to + 194 °F -20 °C to +120 °C	CONTRARY TO THE EXPLOSION DIRECTION	6890 fpm max. 35 m/s

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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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