

# Float Valve EM-FV

## APPLICATIONS

The **Float Valve EM-FV** is designed as an explosion isolation device in air streams with low to low 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

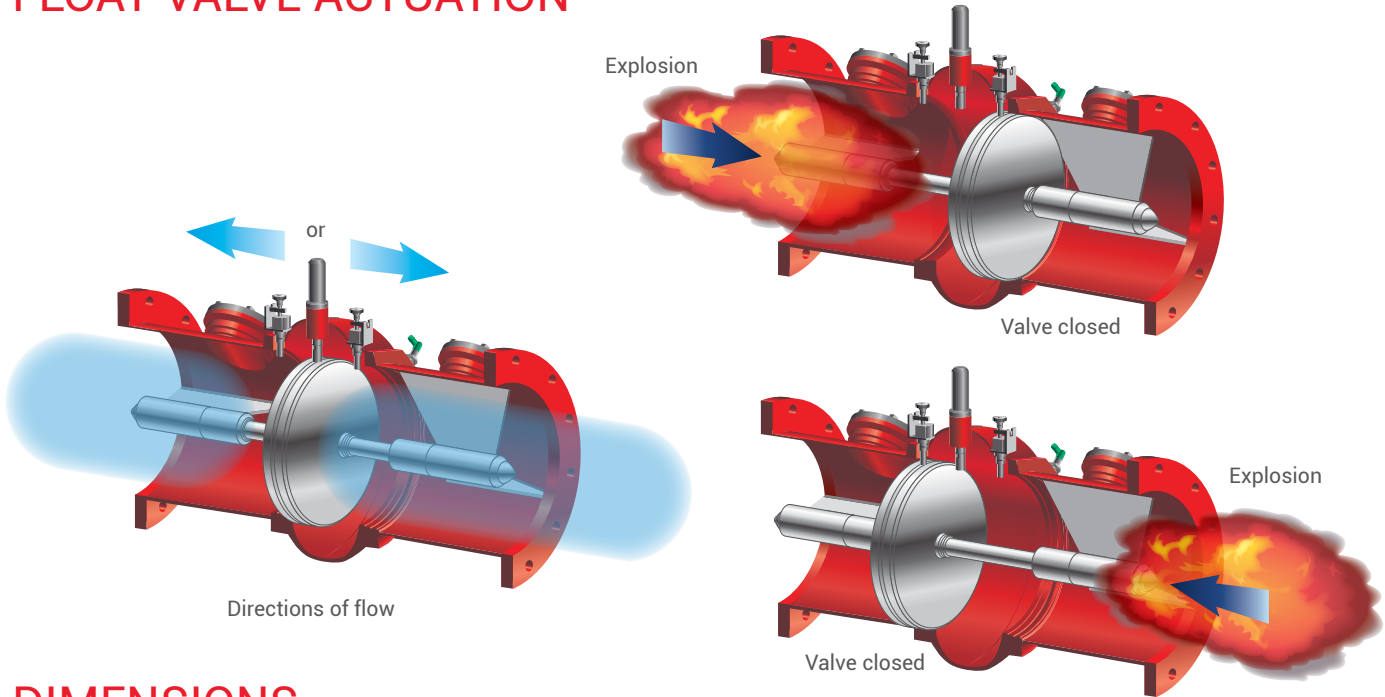


## TECHNICAL INFORMATION

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 <sup>-1</sup>	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 <sup>-1</sup>	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 <sup>-1</sup>	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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