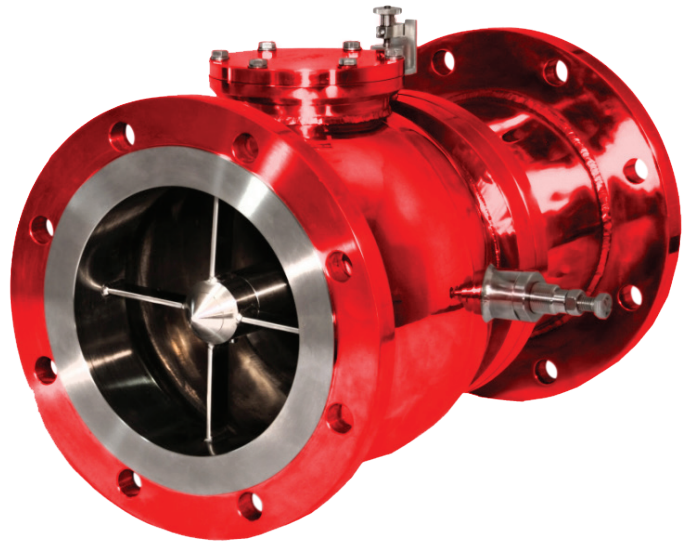


PRODUCT CODE: 50700

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



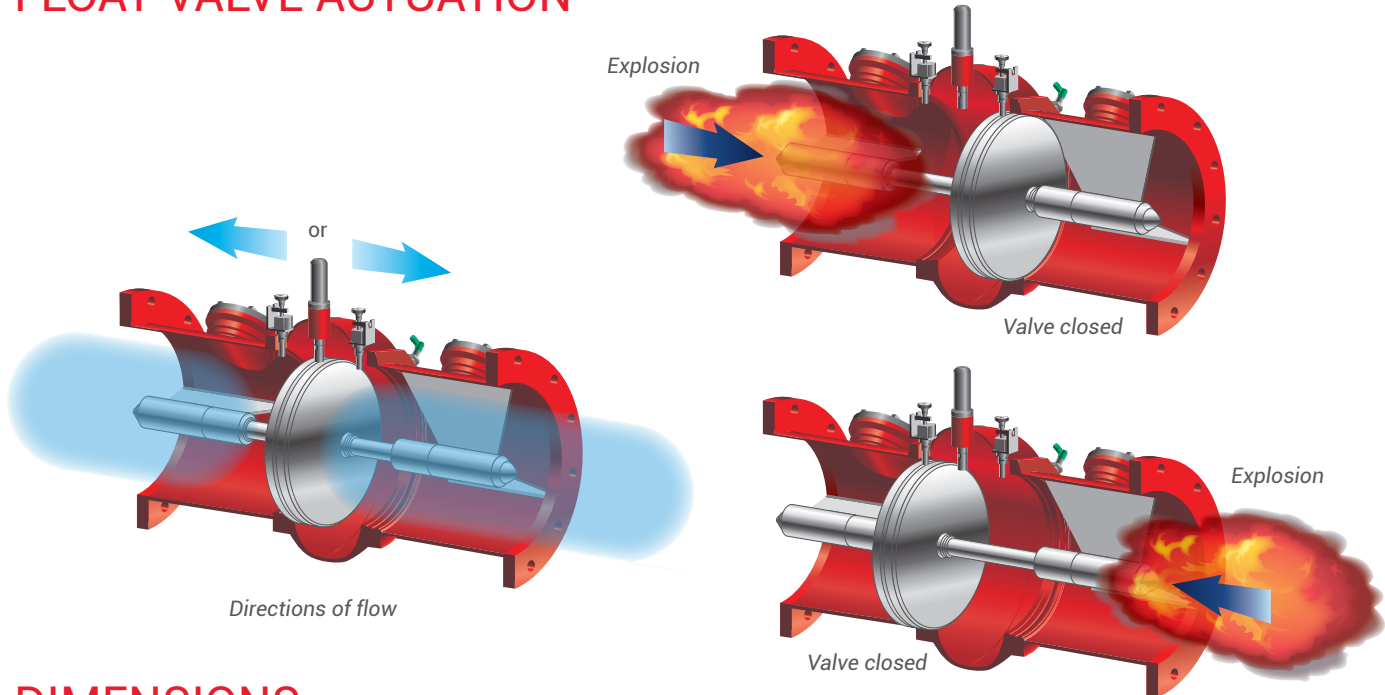
TECHNICAL INFORMATION

| | | | | | |
|--------------------------------|--|--------------------------------|---|---------------------------------------|--|
| 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 ⁻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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