

EXPLOSION ISOLATION VALVE

DESCRIPTION

The Fike Explosion Isolation Valve (EIV) consists of:

- Stainless steel full ported conduit gate
- Pipe flanges to fit ANSI 150 bolting
- Bolted mild steel housing
- Cushioned gate
- Mechanical lockout
- Optional gate position sensor
- Gas cartridge actuator (GCA)

Valve closure is achieved when the GCA is activated by the system controller, causing release of gasses into the actuator. Closure is accomplished in 5 milliseconds per inch of valve diameter or less.

FEATURES AND BENEFITS

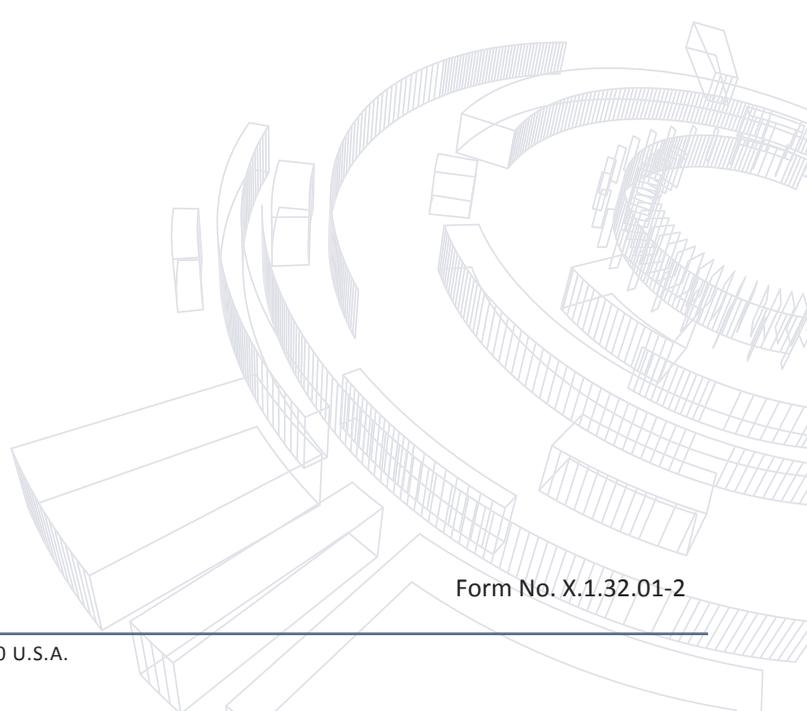
- Stops explosions from either direction (up-flow or down-flow) with appropriate detection
- Clean seat conduit design eliminates build up of process materials and all internal obstruction to the pneumatic transport process system
- Modular construction allows refurbishment and/or rebuilding for faster commissioning and less downtime
- Concealed gate eliminates personnel exposure to moving parts and enhances reliable operation by reducing valve exposure to environmental and/or process hazards



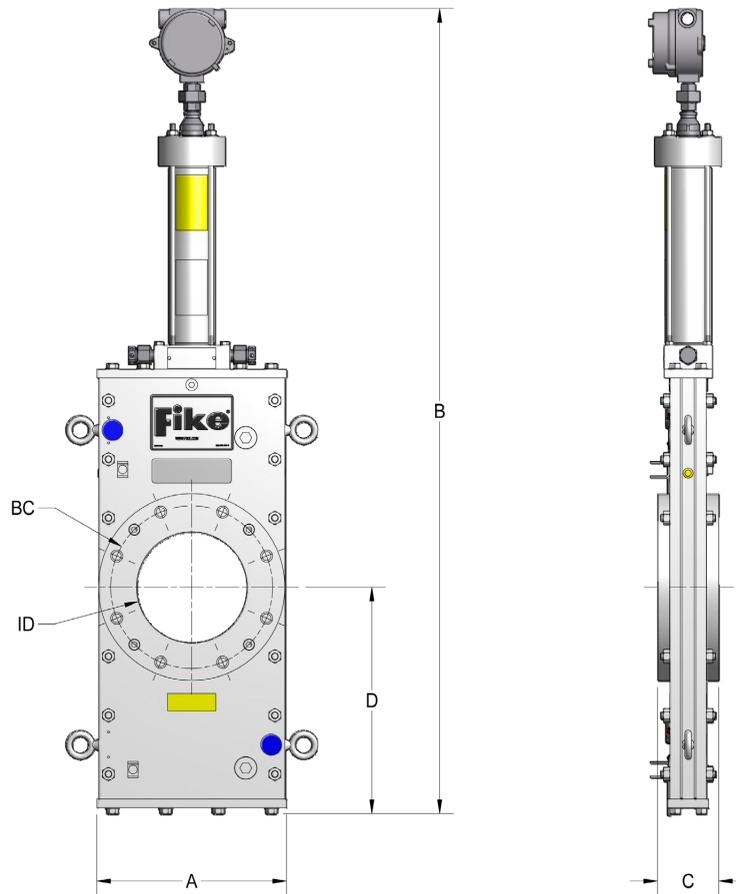
SPECIFICATIONS

Process Temperature:	-20 to 500°F/-28 to 260°C
Ambient Temperature:	-20 to 130°F/-28 to 54°C
Operating Pressure:	Min-Max, full vacuum to 29.0 PSIG (+2.0 BARG)
Deflagration Pressure:	145.0 PSIG (10 BARG)
Line Size/Bolting:	150 ANSI, see table 1 DIN sizes available upon request. Sanitary design available upon request
Materials of Construction:	Process Contact Gate*: 316 SST Flanges*: 316 SST Seals (flange/gate): Teflon® encapsulated silicone Body: Mild Carbon Steel Paint Specification: Non SST external surfaces, baked urethane enamel

* Consult factory for Teflon® coating, Hastelloy®, and other materials Hygienic model also available



Form No. X.1.32.01-2



Valve Size	ID	BC	A	B	C	D	Approx. Weight (Lbs.)
2	2	4 3/4	5 1/4	32 1/2	3 1/2	5 1/4	75
3	3	6	9 1/4	41	4 1/2	10 1/8	145
4	4	7 1/2	9 1/4	41	4 1/2	10 1/8	145
6	6	9 1/2	11 1/4	50	4 1/4	13 3/8	220
8	8	11 3/4	13 3/4	58	4 3/8	16 3/8	330
10	10	14 1/4	16 1/4	64 1/4	4 7/8	19 1/2	480
12	12	17	21	77	8 1/8	24	600
14	14	18 3/4	23	87	8 1/8	28 1/4	830
16	16	21 1/4	25	95	8 1/8	31	960
18	18	22 3/4	28	106	8 1/8	35 1/2	1135
20	20	25	30 1/2	114	6 5/8	37 1/8	1500
24	24	29 1/2	36	138	6 5/8	46 1/8	1550