



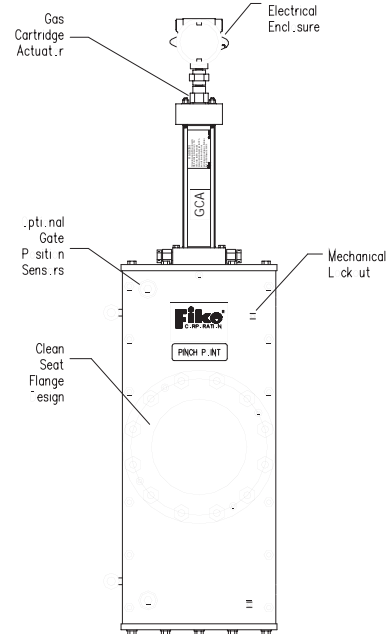
## EXPLOSION ISOLATION VALVE

### DESCRIPTION

The Fike Explosion Isolation Valve 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

Bi-directionality

Clean seat conduit design

Modular construction

Concealed gate

### BENEFITS

Stops explosions from either direction (up-flow or down-flow) with appropriate detection

Eliminates build up of process materials and all internal obstruction to the pneumatic transport process system

Allows refurbishment and/or rebuilding for faster commissioning and less downtime

Eliminates personnel exposure to moving parts and enhances reliable operation by reducing valve exposure to environmental and/or process hazards

### SPECIFICATIONS

Temperatures:

Operating Pressure:

Deflagration Pressure:

Line Size/Bolting:

Materials of Construction:

Process Temperature: -20° to 500°F/-28° to 260°C

Ambient Temperature: -20° to 130°F/-28° to 54°C

Min-Max, full vacuum to +2.0 BarG (29.0 PSIG)

10 BarG (145.0 PSIG)

150 ANSI, see table 1 DIN sizes available upon request. Sanitary design available upon request

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

## EXPLOSION ISOLATION VALVE DIMENSIONS

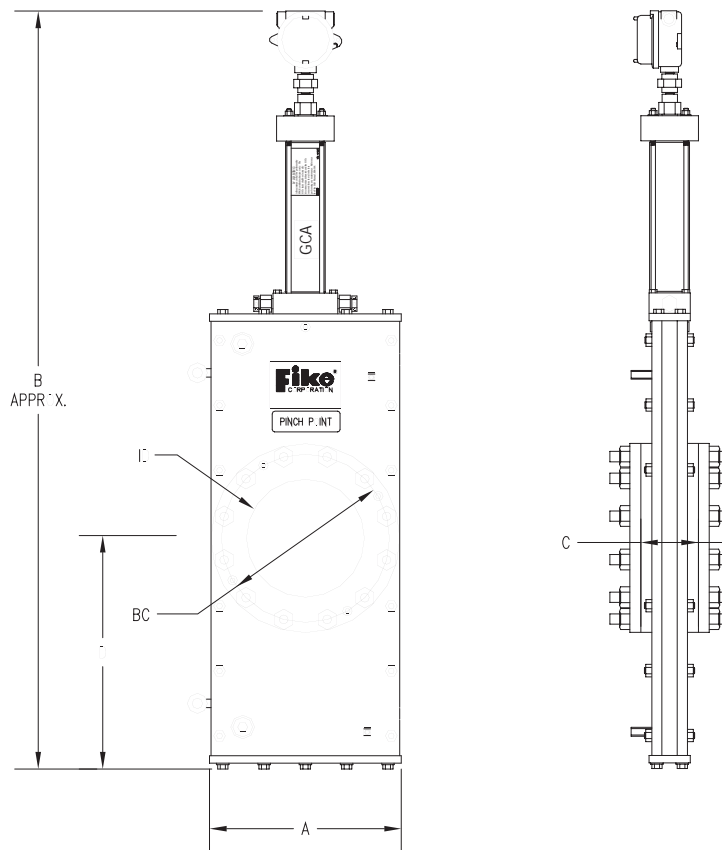


TABLE 1 DIMENSIONS (IN INCHES)

Valve Size	ID	BC	A	B	C	D	Approx. Weight, Lbs.
2	2	4 3/4	5 1/2	32 1/2	3 1/2	5 1/4	60
3	3	6	9	41	4 1/2	10	150
4	4	7 1/2	9	41	4 1/2	10	150
6	6	9 1/2	11 1/8	50	4 1/4	13 1/2	195
8	8	11 3/4	13 3/4	58	4 1/2	16 1/4	305
10	10	14 1/4	16 1/4	64 1/4	4 7/8	19 1/2	415
12	12	17	21	80 3/8	8 1/8	27	575
14	14	18 3/4	23	89 1/4	8 1/8	30 3/4	850
16	16	21 1/4	25	98	8 1/8	33 3/4	1140
18	18	22 3/4	28	108	8 1/8	37 3/4	1355
20	20	25	30 5/8	118	6 5/8	40	1090
24	24	29 1/4	36	142 1/4	6 5/8	48 3/4	1280

Dimensions are nominal.



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