



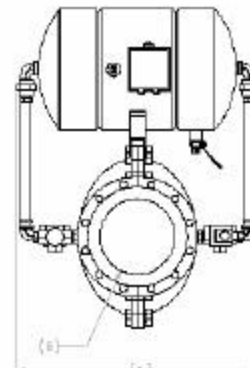
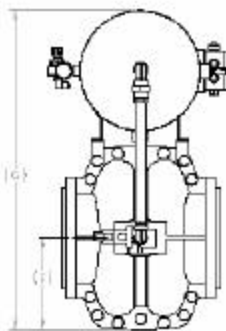
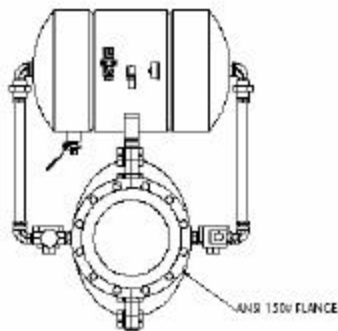
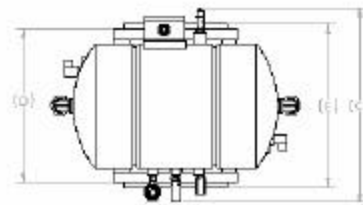
Industrial Protection Devices Fast Closing Pinch Valve Type IVE

The Industrial Protection Devices (IPD) Fast Closing Valve comprises 5 components;

1. Housing that is installed into ductwork.
2. Inflatable bladder that is rapidly activated to close the line.
3. Air receiver tank to provide inflation energy.
4. Controller to manage and monitor valve operation.
5. Sensor (not shown) to trigger activation of valve closing.

Model	A	B	C	D	E	F	G	Weights
IV-4	20	4	16	7.9	9	5.8	20	57 lbs
IV-5	21	5	18	9	10	6.2	23	75 lbs
IV-6	27	6	18	9.3	11	7.6	26	96 lbs
IV-8	29	8	22	17	18	9.2	32	151 lbs
IV-10	32	10	25	20	21	12	43	297 lbs
IV-12	41	12	27	23	24	14	45	421 lbs
IV-14-24	on application							

All Dimensions Are In Inches +/- .25"



Activation of the IPD Valve can be by the following means;

- i. Independent sensor that detects incipient stage of explosion (pressure / UV-IR etc.)
- ii. Output relay from Explosion Suppression system used to protect enclosure type equipment (dust collector / dryer etc.)
- iii. Explosion Vent integral sensor or Rupture Disk burst alert sensor that provides a change of electrical state when the vent opens.

Depending upon the activation means & other application details, the positioning of the IPD Valve is determined.

Specifications

Valve:

Power	24VDC, supplied by Controller
Dimensions	See Drawing
Air Supply	Filtered, oil/residue/water free air, regulated to a minimum pressure of 80 psig
Weight call	factory

Controller:

Inputs (Qty., type)	1, Input from FSC module
Outputs (Qty., type)	1, Output t 3, Dry relay contact (1 20VAC/10A) 2, 24VDC/100ma each
Display	Monochrome touch screen
Dimensions	22.75" x 16.88" x 11.77"
Environmental	NEMA 4x
Weight	30 pounds (13.5 kg)

FSC Module:

Power	Supplied by Controller
Inputs (Qty., type)	1, input from dry contact trigger source
Outputs (Qty., type)	1, Output to Controller
Display	2 LEDs (RED = Fault, Green = OK)
Dimensions	4.88" x 2.88" x 2"
Environmental	NEMA 4x
Weight	2 pounds (1 kg)

The standard materials of construction for the IPD Valve are;

Body – painted Carbon Steel

Bladder – Food Grade Neoprene standard (specials upon request)

Air Receiver Tank – painted Carbon Steel

Piping – Carbon Steel

Alternative materials upon request.

The IPD Valve is designed to allow field replacement of the bladder element. A wear indicator is designed into the valve and provides indication on the controller when replacement is recommended.

Periodic testing of the valve while installed is recommended. This can be achieved at the controller using a password protected command.