



Interceptor[®]
Isolation Valve

SG[®]

Air Operated

The Interceptor[®]-SG[™] is a completely air operated valve. It can be rearmed at the controls after an activation without any rebuild or ignitor replacement. A series of three solenoid valves direct air from the built in air tank to fast close, slow close, or open the valve.

Fail Safe Design

The Interceptor[®]-SG[™] features fail safe functions if the valve ever loses power or supply air. If power is lost the valve will fail safe into a slow close position. Air is stored in the internal tank of the valve. However, if air supply is lost and air storage drops below a threshold the valve will also fail safe into a slow close position.

NFPA 69 Compliant

The Interceptor[®]-SG[™] is a compliant solution in NFPA 69 and is compliant for FM 7-76. The slide gate system has an ATEX approval for isolation of a variety of different types of dusts.

For more information on any of our products or services please visit us on the web at:

www.cvtechnology.com

Data Sheet



Interceptor[®]-SG[™] Explosion Isolation Slide Gate

The Interceptor[®]-SG[™] explosion isolation valve is designed to prevent explosion propagation from one vessel to another through interconnected piping. The isolation valve is a normally open device. Upon receiving a signal from a pressure detector the Interceptor[®]-SG[™] valve is designed to rapidly close. The medium for actuation is plant-compressed air stored in a tank on the valve to ensure the fastest response possible under any plant conditions. The valve closure principle is a slide gate that closes when a high speed solenoid valve changes state releasing the compressed air. The Interceptor[®]-SG[™] features a stainless steel bore that is replaceable for extended use. Additional features include a low-pressure monitor on the air tank, access port for maintenance, and position indication for the valve. The valve interfaces with the CONEX controller and includes an IVM module to operate the valve for slow closing and reopening.

Slide gate valves are designed for use in almost any process handling combustible dust. The Interceptor[®]-SG[™] system is ideally used for pneumatic conveying systems, cyclones, mills, and storage vessels.

Specifications

- Stainless steel bore standard
- Standard low pressure switch
- Maximum Kst of 300 bar·m/s
- Maximum Pred of 100 psi (7 bar)
- ATEX approved
- Actuator medium is stored compressed air
- Air supply requirement of 80 psig (5.5 barg)
- Model sizes include diameters 2" (50 mm) to 6" (150 mm)
- Environmental temperature ranging from -22°F (-30°C) to 158°F (70°C) with solenoid heat tracing

Options

- CAN-BUS Connection to Controls Available
- EPDM Gaskets Standard, Others Available
- Vertical or Horizontal Installation
- Solenoid Valve Cover Options



CV TECHNOLOGY
EXPLOSION PROTECTION

15852 Mercantile Court
Jupiter, FL 33478
Phone 561-694-9588
www.cvtechnology.com

Safety Solution

The Interceptor®-SG system can be used to isolate pneumatic conveying systems where abrasion can be an issue. The bore can be replaced along with the guide ring and gaskets. A pressure gauge allows for you to check the pressure in the built in air tank and a pressure switch provides remote monitoring if the air supply gets low.

Easy Maintenance

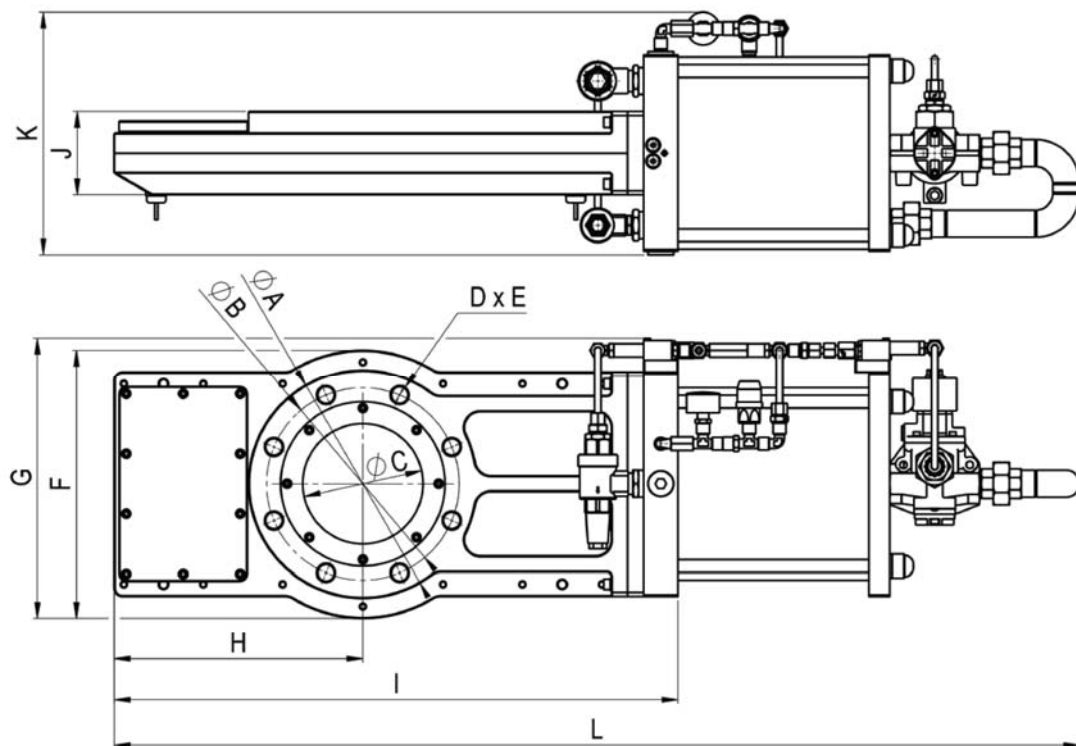
The Interceptor®-HRD™ includes an access plate for easy maintenance into the valve body. Air operation with solenoids does not require any ignitors to be swapped or checked.

Position Indication

Inductive sensors are located on the valve to provide signaling of the slide gate valves position through the controls. Additional output relays are available on the IVM module to remotely monitor the switch status.

For more information on any of our products or services please visit us on the Web at:

www.cvtechnology.com



Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Qty.	E Size	F Inch (mm)	Weight Lbs (kg)
2" (50)	6.49" (165)	4.92" (125)	1.96" (50)	4	M16	9.05" (230)	92 lbs (42)
2.5" (65)	7.28" (185)	5.71" (145)	2.55" (65)	8	M16	9.65" (245)	104 lbs (47)
3" (80)	7.87" (200)	6.29" (160)	3.15" (80)	8	M16	10.23" (260)	108 lbs (49)
4" (100)	8.66" (220)	7.08" (180)	3.94" (100)	8	M16	11.02" (280)	126 lbs (57)
5" (125)	9.84" (250)	8.26" (210)	4.92" (125)	8	M16	12.00" (305)	139 lbs (63)
6" (150)	11.22" (285)	9.44" (240)	5.91" (150)	8	M20	13.18" (335)	157 lbs (71)
	G Inch (mm)	H Inch (mm)	I Inch (mm)	J Inch (mm)	K Inch (mm)	L Inch (mm)	
2" (50)	11.02" (280)	7.60" (193)	17.17" (436)	4.09" (104)	11.77" (299)	32.95" (837)	
2.5" (65)	11.34" (288)	7.97" (202.5)	18.43" (468)	4.09" (104)	11.77" (299)	34.80" (884)	
3" (80)	11.61" (295)	8.07" (205)	19.41" (493)	4.09" (104)	11.77" (299)	36.37" (924)	
4" (100)	12.71" (323)	9.25" (235)	21.77" (553)	4.09" (104)	11.93" (303)	39.52" (1004)	
5" (125)	13.18" (335)	10.75" (273)	24.72" (628)	4.09" (104)	11.93" (303)	43.46" (1104)	
6" (150)	13.77" (350)	12.20" (310)	27.68" (703)	4.09" (104)	11.93" (303)	47.40" (1204)	

Dimensions are for general information purposes only. CV Technology will provide exact dimensions upon request.