

EXPLOSION SUPPRESSION SYSTEM

Q-Bic *U.S. patent pending*

Explosion Isolation

Plant components with constructive explosion protection regime are often interconnected via big pipes or rectangular shafts with further apparatus. If these pipes or shafts convey combustible dusts or bulks the single apparatus have to be isolated against explosions. This way the explosion spreading in further plant components is prevented as explosions are forwarded by flames but not by shock waves.

The Q-Bic explosion isolation system extinguishes the flame front of the explosion which prevents the ignition of the flame jet with pre-compressed pressure in further apparatus. Compared with other systems, e.g. explosion barrier slide valves, the operational cost are considerably lower.

Explosion Suppression

The Q-Bic system is suitable for indoor applications where the explosion cannot be discharged to the outside atmosphere. It extinguishes the explosion at the point of ignition. Combustions are identified and immediately suppressed due to the prompt release of dry powder in the endangered area. The dry powder extracts the heat. The explosion is inerted. As the explosion is limited consequential losses are reduced to a minimum.

Authorized Representative:



**Air Separation
Technologies Inc.**

336 Bronte Street S., Suite 222
Milton, ON L9T 7W6
T: 905-821-8860
F: 905-693-9401
www.astcanada.ca

CUSTOMER BENEFITS

- detection via a redundant detector
- reliable technology
- safe and cost-efficient isolation of large ducts > 12" (DN 300) and rectangular shafts



Protection of pipes and vessels



Q-Bic in a large pipe

