

Safety Break Valve

For Top & Bottom Loading Arms or Hoses

Bulletin 350068

Description:

Spillage of hazardous chemicals often causes environmental pollution and toxic hazards, as well as explosions and fire. Driveaway and driftaway accidents are of great significance for (un)loading facilities.

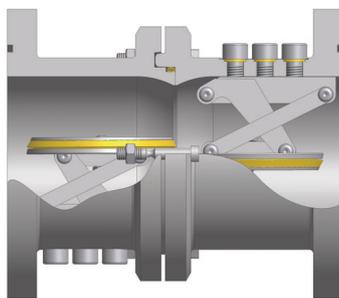
The risk is minimised when the equipment is provided with a KANON Safety Break Valve. In case the tanker drives away before disconnecting the loading arm, this breakaway valve safely disconnects the loading arm from the tanker. The main features are:

- Positive shut off.
- Very low product spillage during actual activation.
- Very low pressure drop.
- Accurate break load, therefore no physical damages to equipment.
- Proven design.
- Fits in KANON SAN831 swivel joint, therefore very low installation costs.
- Suitable for (almost) all liquids and gases which do not cause moisture on the pipe wall and do not coagulate at operating or ambient temperatures.

Function:

The Safety Break Valve (SBV) consists of two valves. Both valve bodies have two connection flanges; the largest of them is the mounting flange for connecting the loading arm or hose, the smaller flange of both bodies are connected to each other by break-bolts.

The mounting flanges are according to KANON SAN831 swivel joint.



Sectional diagram showing the Safety Break Valve in normal open position.

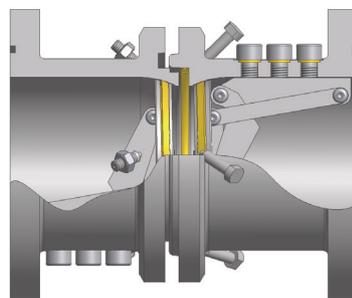


Diagram showing the Safety Break Valve with the break-bolts broken, the valves close and sealed.

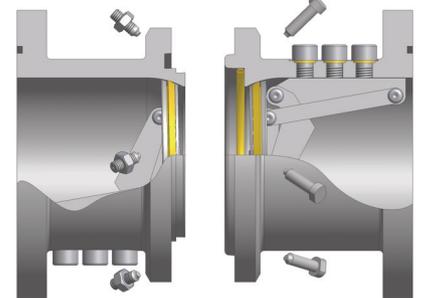


Diagram showing the Safety Break Valve with the two valve bodies fully separated.

Applications:

The operating pressure of the equipment defines the break-bolts selection. KANON Loading Equipment proposes a break load of approximately 1.5 times the operating pressure.

Higher break loads may cause physical damage to the equipment, with lower break loads pressure shocks may cause premature activation of the break valve.

Materials of construction:

Valve body & disc:
Stainless steel AISI 316

Seals & gaskets:
NBR (BUNA), FPM (Viton)
and PTFE/FEP

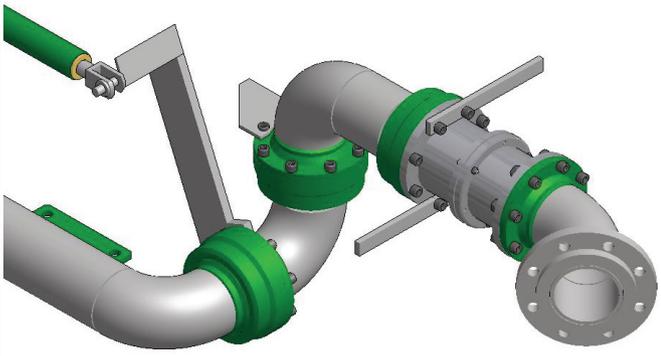
Extras:
Counter flanges,
Adapter flanges

(On request available with material certificates according EN 10204 3.1B)

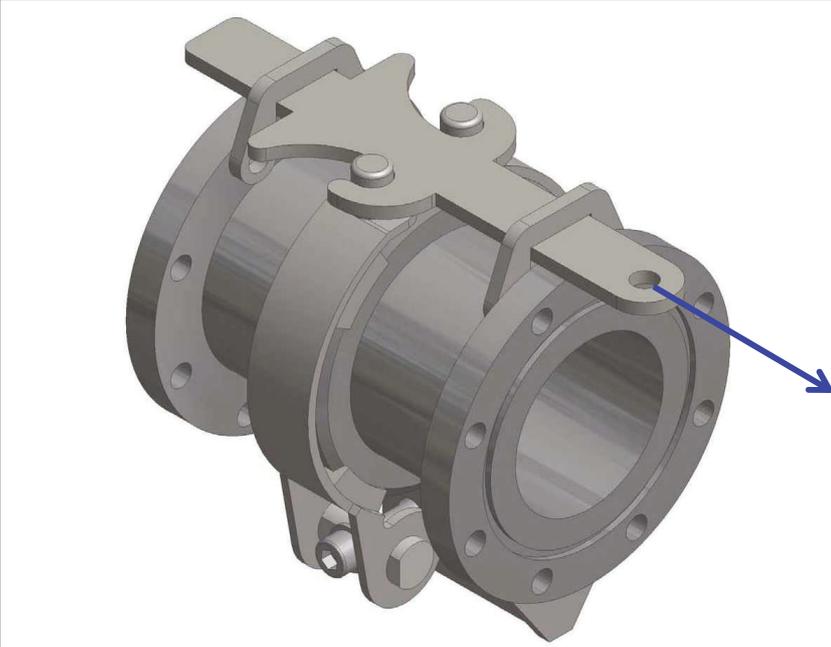
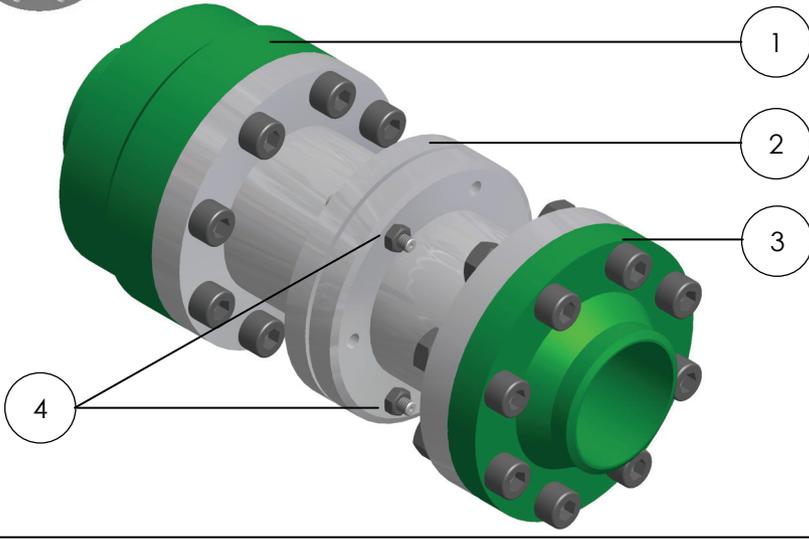
Safety Break Valve

Mounted at Swiveljoint for BLA, details

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- 1 Swivel Joint Outerbody
- 2 Safety Break Valve
- 3 Swivel Joint Flange
- 4 Break Bolts



- 5 Cable release optional

