# Vacuum breakers

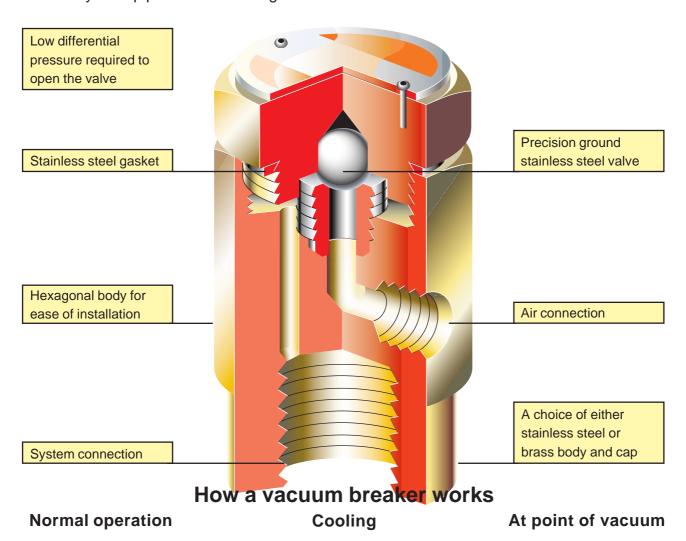
for steam systems

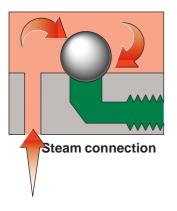


## Vacuum breakers

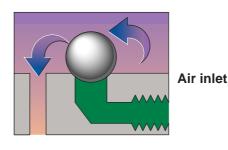
### protecting equipment from vacuum damage

The Spirax Sarco vacuum breaker range will protect your plant and process equipment against vacuum, and at the same time allow condensate to drain effectively from pipework and storage vessels.

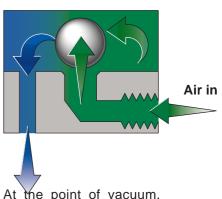




The precision ground stainless steel valve is held firmly on its seat during normal operating conditions ensuring a tight shut-off.



During cooling, steam begins to condense resulting in a reduction of pressure. The valve remains on its upper seat until the pressure in the upper chamber falls below the air inlet pressure

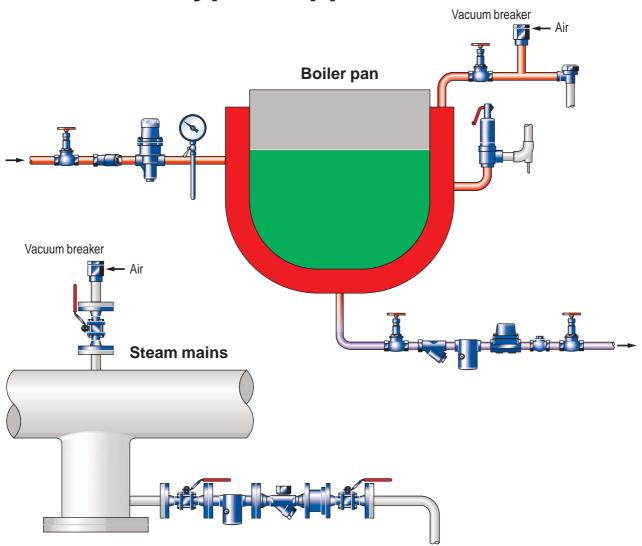


At the point of vacuum, the valve will instantly lift of its seat. The air is then drawn in throught the upper chamber preventing a vacuum being formed.

**Ebora Process Automation** 

		VB14 Brass		VB21 Austenitic stainless steel
Size and pipe connections		System connection Air connection	1/2" screwed BSP or NPT 1/8" screwed BSP or NPT	System connection ½" screwed BSP or NPT  Air connection 1/2" screwed BSP or NPT
Materials	Body	Brass	Cu Zn 39 Pb 2	Austenitic stainless steel AISI 303
	Сар	Brass	Cu Zn 39 Pb 2	Austenitic stainless steel AISI 303
ē	Gasket	Stainless steel	BS 1449 304	Stainless steel BS 1449 304
<u>a</u>	Valve	Stainless steel	Z100 CD 17	Stainless steel AISI 440C
~	Valve seat	Stainless steel	Z15 CN 16 02	

## **Typical applications**



#### **Applications**

These robust reliable products have been used on numerous system applications preventing vacuums in equipment such as:

- Heat exchangers
- Storage vessels

Boilers

- Jacketed pans
- Sterilizing chambers
- Steam mains

#### **User benefits**

- Protects valuable equipment from vaccum damage.
- Allows effective drainage from the system.
- Simple, reliable and robust design.
- Spirax Sarco's guarantee of worldwide technical support, knowledge and service.

# VB14 screwed brass

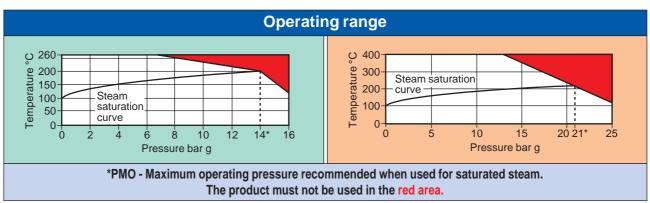


### **VB21**

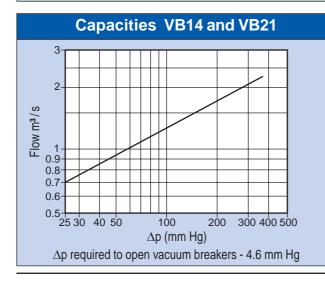
screwed austenitic stainless

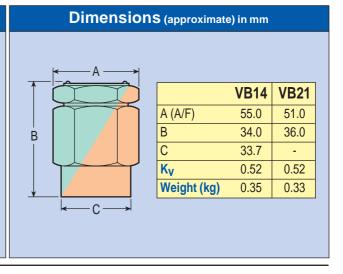
steel





Limiting conditions				
Body design conditions PN16	Body design conditions PN25			
Maximum allowable pressure 16 bar g	Maximum allowable pressure 25 bar g			
Maximum allowable temperature 260°C	Maximum allowable temperature 400°C			
Cold hydraulic test pressure 24 bar g	Cold hydraulic test pressure 38 bar g			





VB