



VBS21 and VBS21 Food+ Vacuum Breaker

Description

The VBS21 is a small purpose designed vacuum breaker for general purpose applications on condensing vapour (steam) or liquid systems.

VBS21 Food+ 1/2" available with a food contact regulation Declaration of Compliance

Designed, manufactured and approved for Steam and Condensate applications, the VBS21 Food+ product complies with:

- (EC)1935:2004 Materials and Articles Intended to come into Contact with Food
- (EC)2023:2006 Good Manufacturing Practice for Materials and Articles Intended to come into Contact with Food
- (EU)10/2011 Plastic Materials and Articles Intended to come into Contact with Food
- FDA Code of Federal Regulations - title 21 - Food and Drugs

This product is intended to be connected into a system that can operate a food contact compliant process.

A list of the materials that could come directly or indirectly into contact with foodstuffs can be found in the Declaration of Compliance available for this product.

Standards

This product fully complies with the requirements of the EU Pressure Equipment Directive/2014/68/EU.
Shut-off conforms to EN 12266-1 Rate E

Certification

This product is available with a manufacturer's Typical Test Report.

Note: All certification/inspection requirements must be stated at the time of order placement.

Food+ can be supplied with material Certification for all wetted parts at extra cost.

Note: All certification/inspection requirements must be stated at the time of order placement.

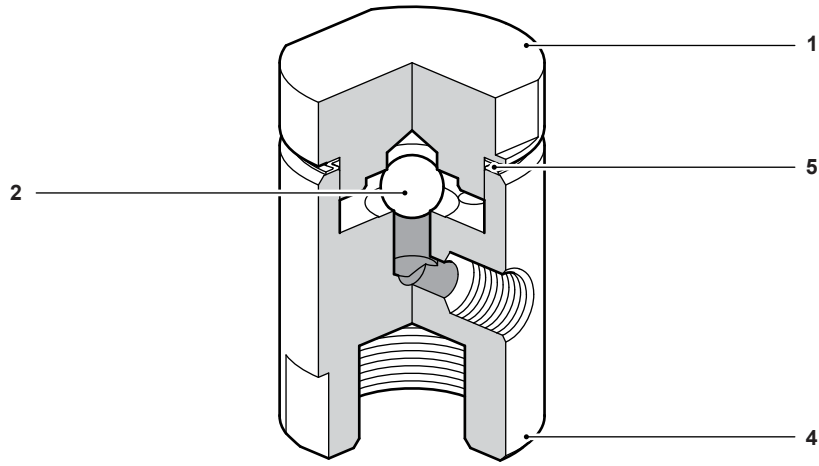
Sizes and pipe connections

1/2" (system connection) screwed BSP or NPT.

1/8" (air inlet connection) screwed BSP or NPT.

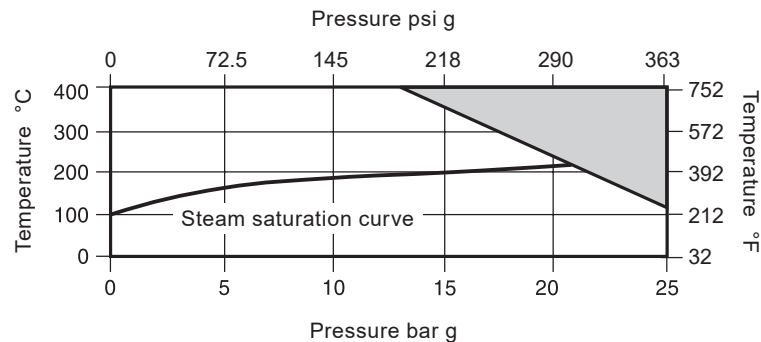


Materials



No.	Part	Material
1	Cap	Stainless steel AISI 303
2	Valve (internal)	Stainless steel AISI 440 C
4	Body	Stainless steel AISI 303
5	Gasket	Stainless steel AISI 304

Pressure/temperature limits

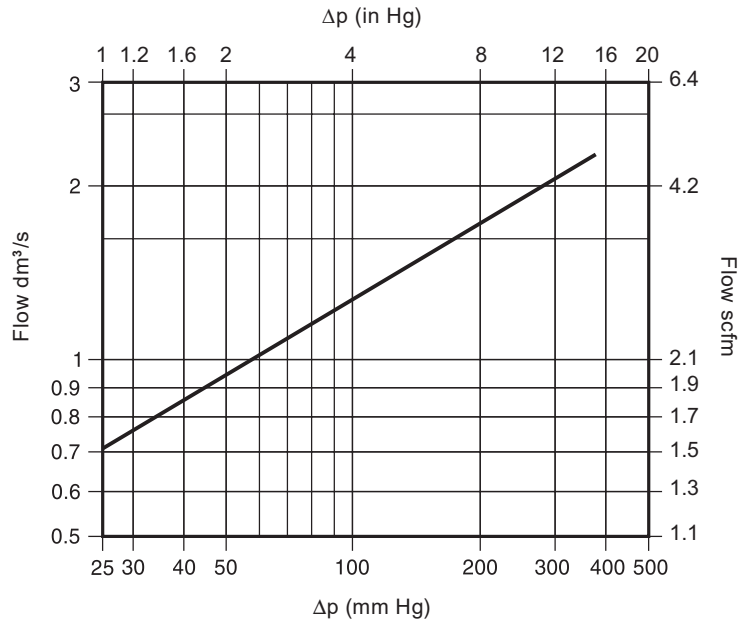


The product **must not** be used in this region.

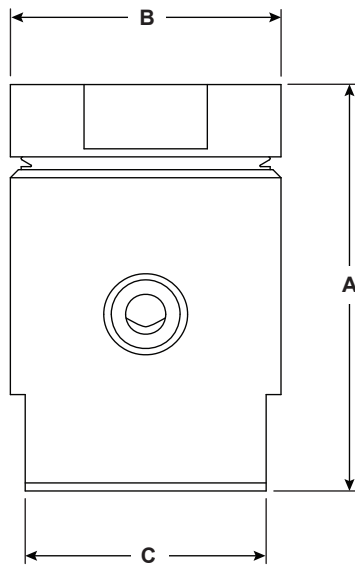
Body design conditions		PN25	
PMA	Maximum allowable pressure	25 bar g @ 120 °C	363 psi g @ 248 °F
TMA	Maximum allowable temperature	400 °C @ 13 bar g	752 °F @ 189 psi g
Minimum allowable temperature		-48 °C	-54.4 °F
PMO	Maximum operating pressure for saturated steam service	21 bar g	305 psi g
TMO	Maximum operating temperature	400 °C @ 13 bar g	752 °F @ 189 psi g
Minimum operating temperature		0 °C	32 °F
Note: For lower operating temperatures consult Spirax Sarco			
Designed for a maximum cold hydraulic test pressure of:		38 bar g	551 psi g

Capacity

Δp required to open vacuum breaker 4.6 mm Hg (0.2 in Hg)



Dimensions/weights (approximate) in mm (inches) and kg (lbs)



Size	A	B (A/F)	C	Kv	Weight
1/2"	52 (2)	30 (1.18)	34 (1.34)	0.52	0.33 (0.73)

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P095-02) supplied with the product.

Installation note

The VBS21 vacuum breaker must be installed in a vertical position with the system connection at the bottom. On steam systems, the vacuum breaker should be installed at the highest point in the system where it will not be flooded with condensate.

How to order

Example: 1 off Spirax Sarco VBS21 vacuum breaker having 1/2" screwed BSP connections.