

Vacuum Breaker VB14, VB21

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واتساب استعمال ۰۹۱۲۸۴۴۸۷۶۳

The VB14 and VB21 are designed to admit air to condensing vapor (steam) or liquid systems where vacuum formation may inhibit system drainage or operation.

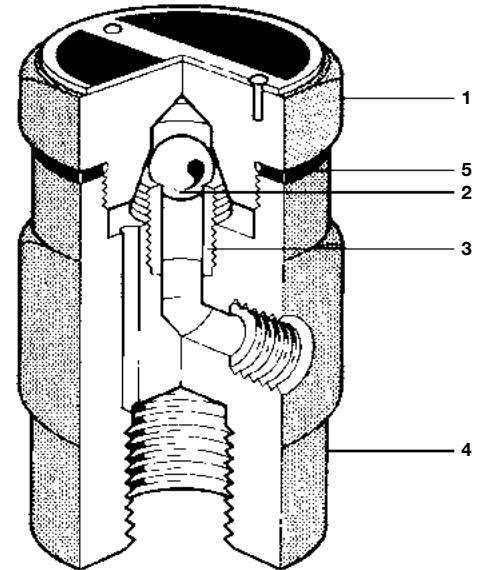
| Model | VB14 | VB21 |
|---------------------|-----------------------|----------------------|
| Sizes | 1/2" x 1/8" | |
| Connections | NPT | |
| Construction | Brass Body | Stainless Steel Body |
| | Stainless Steel Valve | |
| Options | BSP Connections | |

Typical Applications

Used on steam inlet to air coils, heat exchangers, sparge systems, jacketed kettles, boiler feed water tanks, chilled water lines and liquid process lines, all of which at one time or another generate vacuum conditions which must be relieved to allow proper system operation.

Construction Materials

| No. | Part | Material |
|-----|------------------|--|
| 1 | Cap | VB14 Brass |
| | | VB21 Stainless Steel |
| 2 | Valve Check Ball | VB14 Stainless Steel |
| | | VB21 Stainless Steel |
| 3 | Valve Seat | VB14 Stainless Steel |
| | | VB21 Stainless Steel |
| 4 | Body | VB14 Brass |
| | | VB21 Stainless Steel |
| 5 | Gasket | VB14 Nickel Reinforced Exfoliated Type 304 |
| | | VB21 Stainless Steel |



Limiting Operating Conditions

Max. Operating Pressure (PMO) VB14: 210 psig (14 barg)
VB21: 304 psig (21 barg)

Max. Operating Temperature VB14: 500°F (260°C)
VB21: 752°F (400°C)

Pressure Shell Design Conditions

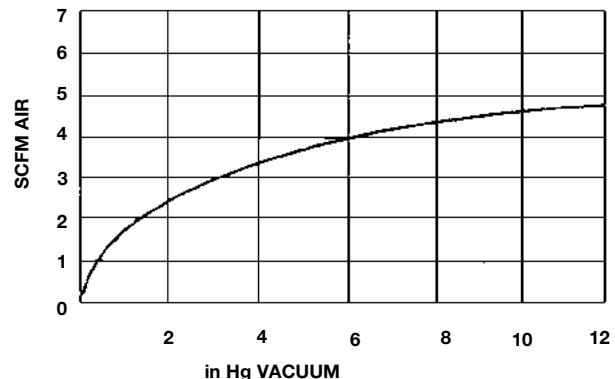
| PMA | VB14: | 232 psig/0-500°F | 16 barg/0-260°C |
|----------------------------|-------|------------------|-----------------|
| Max. allowable pressure | VB21: | 304 psig/0-752°F | 21 barg/0-400°C |
| TMA | VB14: | 500°F/0-232 psig | 260°C/0-14 barg |
| Max. allowable temperature | VB21: | 752°F/0-304 psig | 400°C/0-21 barg |

Operating Characteristics

Maximum Cv – 0.625.

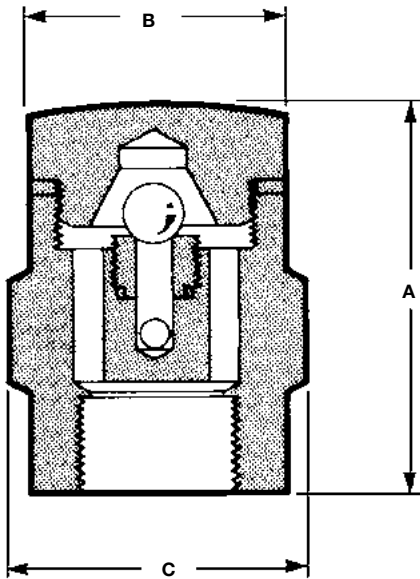
Vacuum required to open – 2 in H₂O (0.15 in Hg)

AIR HANDLING CAPACITIES



Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.
In the interests of development and improvement of the product, we reserve the right to change the specification. TI-4-103-US 01.19

Vacuum Breaker VB14, VB21



Dimensions (nominal) in inches and millimeters

| Size | | A | B | C | Weight |
|------|------|-----|-----|-----|---------|
| 1/2" | VB14 | 2.2 | 1.3 | 1.5 | 0.77 lb |
| | | 55 | 34 | 39 | 0.35 kg |
| 1/2" | VB21 | 2.0 | 1.3 | 1.5 | 0.73 lb |
| | | 52 | 34 | 39 | 0.33 kg |

Sample Specification

Vacuum Breakers shall be used on all modulating or on/off heat exchangers and coils, except in vacuum return systems. They shall be installed in the supply side between the control valve and equipment and be of hardened ball check valve design with all working parts manufactured from stainless steel. Bodies shall be made from either brass or stainless steel depending on the application, and shall be suitable for operating conditions of 210 psig (or 304 psig) saturated steam.

Installation

Always install in a vertical position with cap at the top. Generally the device should be mounted on the highest point of the circuit. Large coils or equipment may require more than one vacuum breaker to be fitted. An isolating valve should be fitted to facilitate servicing.

Maintenance

After the vacuum breaker is isolated from system pressure, the cap can be unthreaded to examine the valve and valve seat areas for debris which can become trapped and cause breakage of system pressure during normal operation. The vacuum breaker is not repairable.

کنترل تک

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