

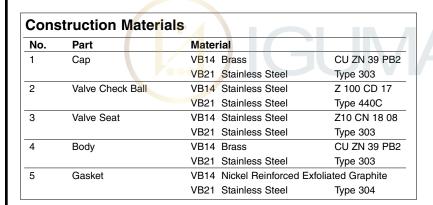
Vacuum Breaker VB14, VB21

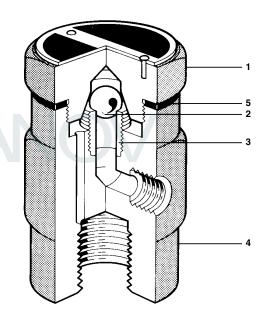
The VB14 and VB21 are designed to admit air to condensing vapor (steam) or liquid systems where vacuum formation may inhibit system drainage or operation.

Model ➪	VB14	VB21		
Sizes	1/2" x 1/8"			
Connections	NPT			
Construction	Brass Body	Stainless Steel Boo		
Constituction	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 releived to allow proper system operation.





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)

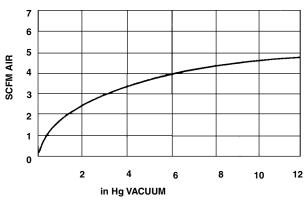
Pressure Shell Design Conditions

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

Operating Characteristics

Maximum Cv - 0.625. Vacuum required to open - 2 in H_2O (0.15 in Hg)

AIR HANDLING CAPACITIES

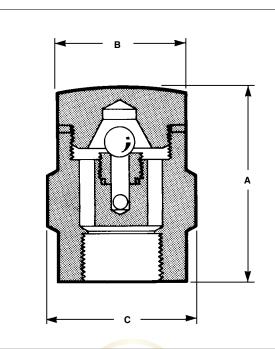


Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

In the interests of development and improvement of the product, we reserve the right to change the specification.

TI-4-103-US 01.05

Vacuum Breaker VB14, VB21



Dimensions (nominal) in inches and millimeters						
Size		Α	В	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.

Telephone: (803) 714-2000 FAX (803) 714-2222