



The First CIP'able Vacuum Breaker

GHVB Vacuum Breaker Valve

Application

The GHVB air operated vacuum breaker is used to eliminate vacuum on the down stream side of the pasteurizer in an HTST system.

GHVB is truly CIPable - it needs only one air connection for CIP control.

Working principle

The GHVB working principle is similar to a ball check valve principle. When pipelines are pressurized, the internal ball is forced upward, closing the port (see fig. 2a).

When internal pressure drops, the ball is drawn down, allowing air to enter and relieve the vacuum (see fig. 2b). CIP pressure forces the ball upwards to close the port.

Therefore an on/off air operated actuator is used (pulsing) to force the ball downwards, allowing the internal part to be CIP. CIP is discharged through the air intake (see fig. 2c).

Standard design

The GHVB vacuum breaker consists of a body which is clamped together with a base. Both have clamp connections for pipeline connection and air intake/CIP discharge. An air cylinder is fitted on the body. The air cylinder is connected to a plunger which opens the vacuum breaker (ball) during CIP. The ball is seated inside the base.



GHVB Valve

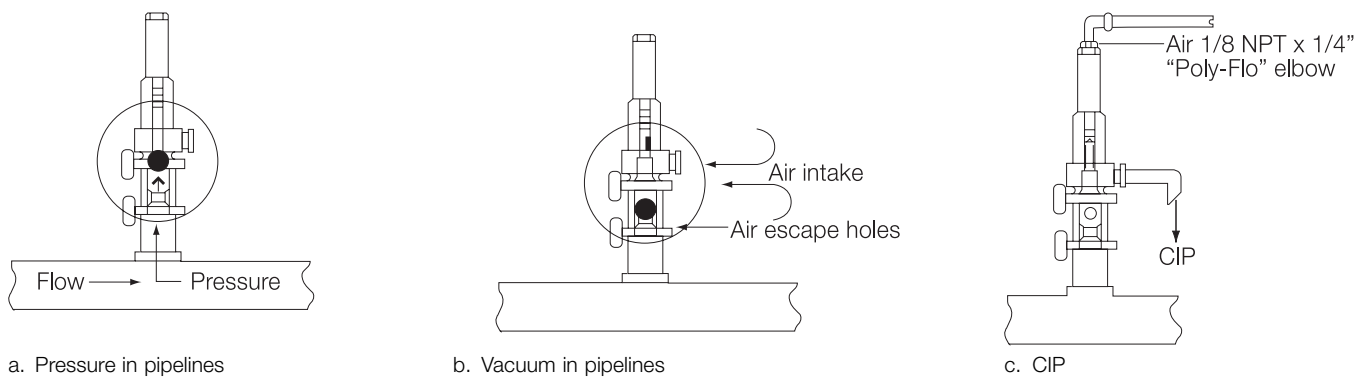


Fig. 2. Working Principle

Technical data

Valve:

Maximum product pressure145 PSI
 Minimum product pressureFull vacuum.
 Temperature range14° F to 194° F

Actuator:

Maximum air pressure100 PSI
 Minimum air pressure40 PSI

Materials

Valve:

Product wetted steel parts:AISI 316L
 Product wetted sealsEPDM
 BallPolypropylene
 Finish:≤32 RA

Actuator:

BodyAISI 304/Aluminium
 Seals
 FinishSemibright

Options

Material Grades

- Seals of Nitrile (NBR) or Fluorinated rubber (FPM)

Ordering

Please state the following when ordering:

- GHVB
- Options

Connections

Compressed air:

1/8" NPT (used only to pulse valve during CIP)

Dimensions (inches)

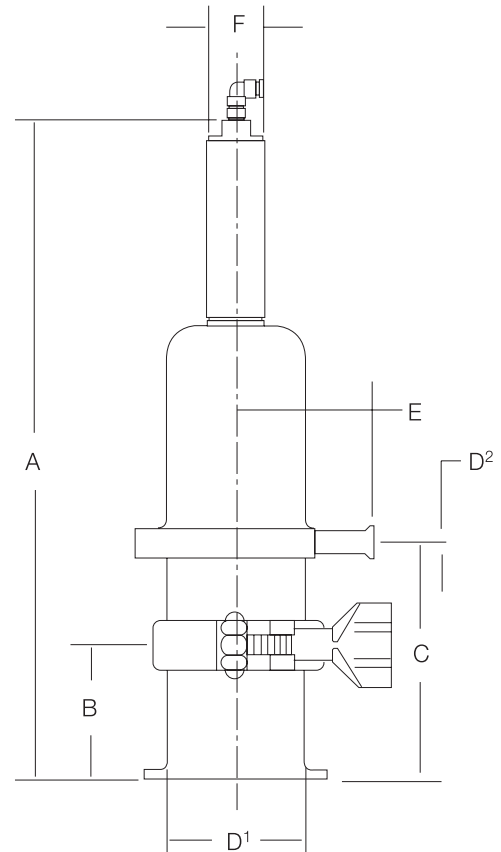


Fig. 3. Dimensions

Size	1.5-inch
F	0.81
D1	1.50
E	1.95
D2	0.50
A	8.75
B	2.25
C	3.12
Weight (lbs.)	3.67

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The information contained herein is correct at the time of issue, but may be subject to change without prior notice.

How to contact Alfa Laval

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