DELTA STEAM SYSTEMS

DVB
VACUUM BREAKER

Description

The Delta DVB vacuum breaker is used on heat exchangers, air coils, jacketed kettles, presses, boiler feed water tanks, sparge systems, water lines, or anywhere else unwanted vacuum may occur. The DVB allows air to enter the steam or liquid system in order to break the vacuum caused by the condensing steam or draining liquid from a system. The elimination of vacuum is necessary to allow proper drainage of liquid from process systems.

How it Works

The DVB vacuum breaker functions like a simple check valve. Outside air is allowed into the system through the air inlet. When steam or water try to escape, the vacuum breaker closes off tightly.

Sizes and Connections

DN15 (½") Threaded BSP, NPT or JIS

Pressure / Temperature limits

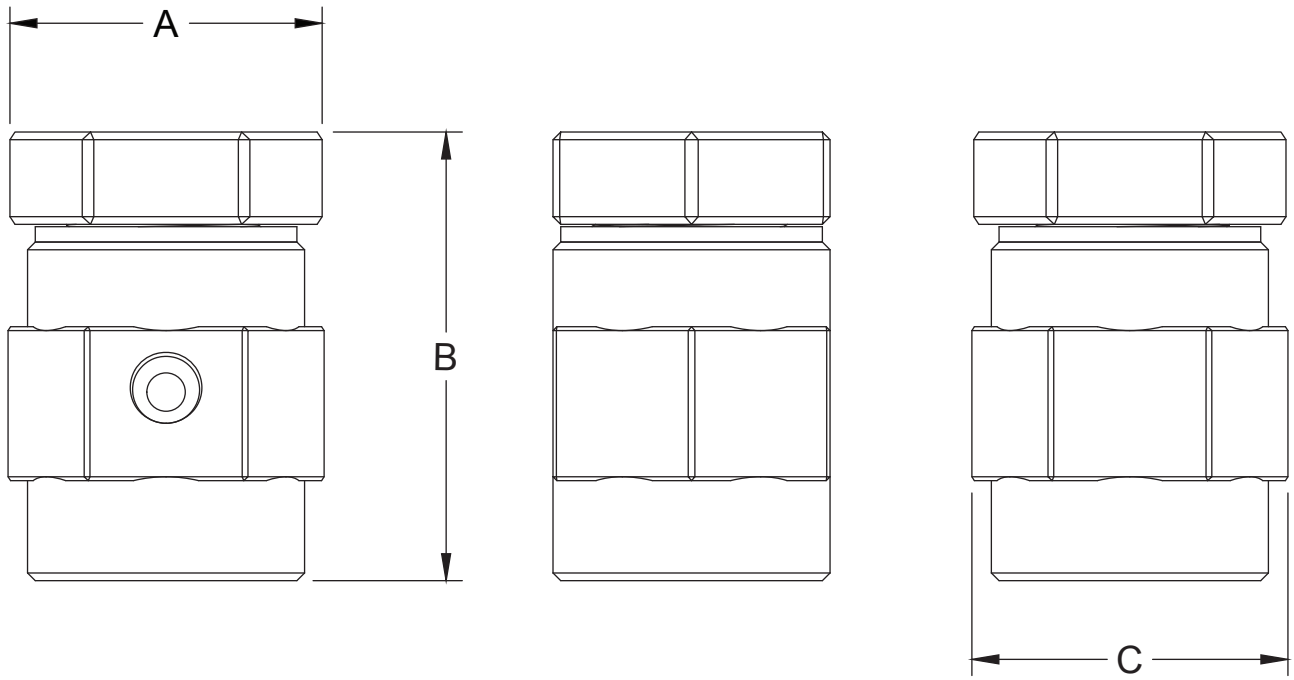
PMA (Maximum Allowable Pressure)	29 bar g	(420 psi g)
TMA (Maximum Allowable Temperature)	400°C	(752°F)
PMO (Maximum Operating Pressure)	29 bar g	(420 psi g)
TMO (Maximum Operating Temperature)	400°C	(752°F)

Installation

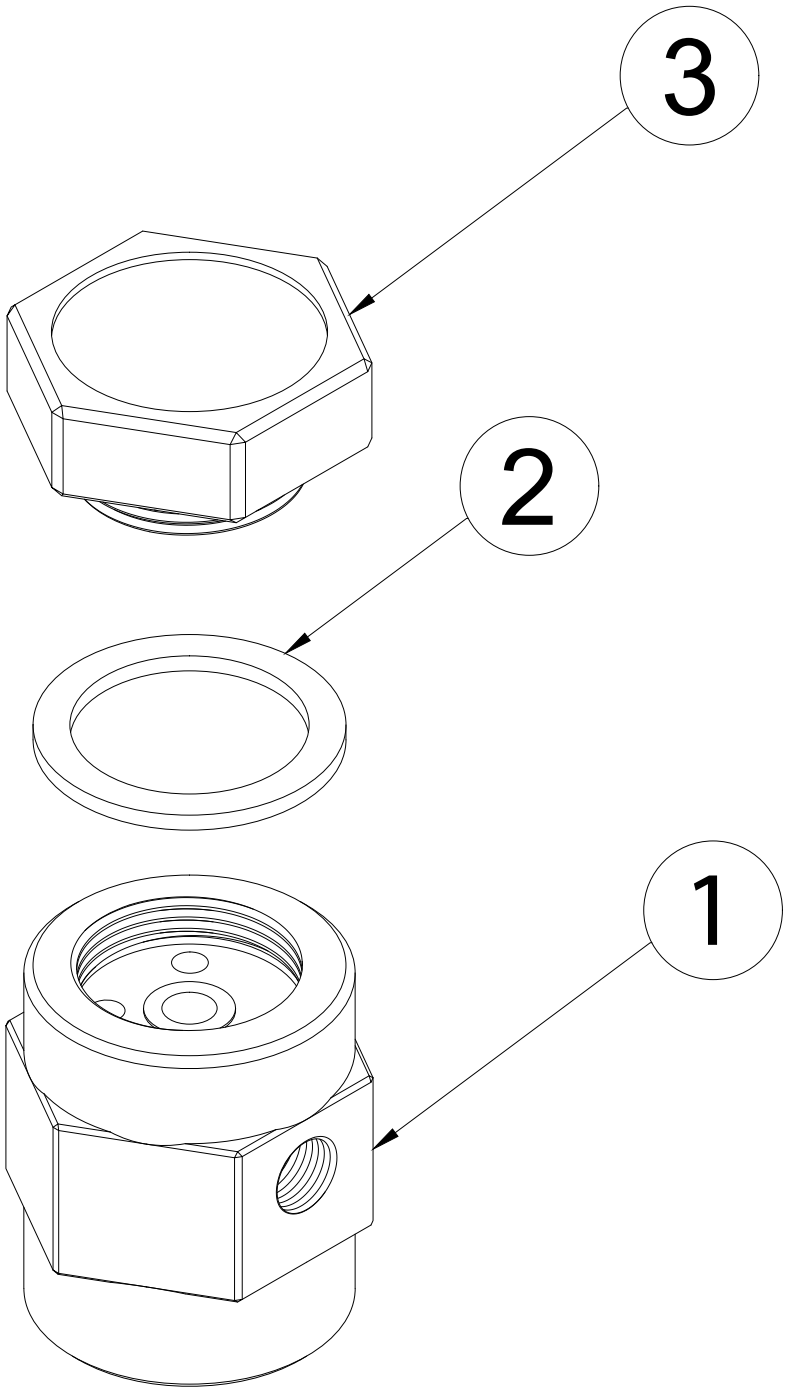
The DVB vacuum breaker must be installed in a vertical position with the system connection at the bottom. On steam systems, the vacuum breaker should be installed at the highest point in the system where it will not be flooded with condensate.

Dimensions and weights

Size	Connection	A	B	Weight
DN15 (½")	Screwed BSP/NPT/JIS	41mm (1.61")	58mm (2.28")	0.4kg (0.88lb)



Assembly



No.	Part	Material
1	Body	ASTM A484 – 316
2	Gasket	SLS Graphite
3	Cap	ASTM A484 – 316

No.	Part	Torque Settings
3	Body	60 Nm

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