

BLOW DOWN SEPARATOR/SILENCER

MUELLER MODEL BDSS

The Mueller Model BDSS Blow Down Separator/Silencer removes entrained liquids from high pressure gas or steam discharging to atmosphere, while reducing the noise associated with this venting. The BDSS utilizes an acoustic model long accepted in the industry, incorporating absorptive and dissipative acoustic functions. The cylindrical arrangement enables low pressure drop while achieving high attenuation properties.

Unlike other units on the market, Mueller's superior double-walled design, incorporating liquid traps, efficiently removes fluids from the gas stream, allowing them to drain by gravity. Steam or gas enters the vent separator through the diffuser going to atmospheric pressure. The diffuser is comprised of a cylindrical, perforated, and capped tube. Downstream of the diffuser is the separating element, where the gas or steam impinge, developing centrifugal forces, throwing liquid particles to the shell wall. The separating element consists of stationary blades arranged in a tangential pattern. Liquid particles wipe around the shell, creating a sheeting action, becoming trapped in drain pockets. Then due to gravity, the separated liquid flows into the sump area for collection. The gas stream, then free of entrained liquid, enters the absorptive acoustic section then exits the unit. The BDSS is self-cleaning, and with no moving parts, is extremely low maintenance. As with all Mueller products it is engineered and built to last, logging many years of reliable performance across the country under all types of field conditions.

WARRANTY

Mueller Environmental Designs guarantees to meet separation, pressure drop, blow down time and noise control criteria, warranties against poor workmanship, material defects, and failure due to improper equipment selection.



BDSS ADVANTAGES

- High separating efficiency over a broad operating range
- Compact dual purpose unit
- Self-cleaning and low maintenance with no moving parts
- Superior performance double-wall design incorporating liquid traps
- Field proven reliability over time in all conditions
- Simple installation
- Accommodates pressures to 3200 PSIG
- Robust construction proven to withstand mechanical stresses of high pressure venting

OPTIONS

- Sight Glass
- Dump Valves
- Liquid Level Controls
- Take-Apart-Designs
- Removable Internals
- Larger Sump Areas
- Stainless Steel Construction
- Special Exterior and Interior Finishes

REQUIRED PROPOSAL DATA

Because all Mueller equipment is engineered and built for each specific installation, the following information is required for proposals involving BDSS units:

- Application-vent or blow down
- Service-intermittent or continuous
- Type of Gas or Steam
- Flow Rate, Blow down time and volume
- Upstream pressure and temperature
- Valve type and size
- Silenced Noise Criteria



Multiple BDSS's (with optional weather hoods) serving numerous compressors.



All stainless steel construction BDSS for wetlands application.

COMPLETE PACKAGE SOLUTIONS

We can provide complete system packages including compatible Mueller equipment, as well as ancillary items such as controls, platforms, skids, ladders, etc.



MUELLER
ENVIRONMENTAL DESIGNS, INC.

THE INDUSTRY LEADER IN NATURAL GAS
SEPARATION, AIR FILTRATION, MIST ELIMINATION,
NOISE AND EMISSION CONTROL SYSTEMS