



## Technical Description

### Brandt™ Mud Gas Separators

REFERENCE MGS-Series	REFERENCE DESCRIPTION Mud Gas Separator	
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## **CHANGE DESCRIPTION**

Revision	Change Description
01	First issue
02	Reissued for format
03	Fixed formatting

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## 1 FUNCTIONAL DESCRIPTION

The Mud Gas Separator is a large vessel with external piping and internal baffles designed to provide positive surface control of gas-cut drilling fluid by removing all large pockets of gas. To accomplish this, the gas entrained mud is directed down across stepped alternating baffle plates. This allows large pockets of gas to be released from the mud. When toxic or potentially explosive gas, including H<sub>2</sub>S, is present the Mud Gas Separator safely removes the gas directly from the flow-line or choke manifold mud returns. A Vacuum Degasser installed on the mud system can then remove the remaining small amounts of entrained gas at a later point on the flow line. The gas is vented or flared a safe distance away from the rig while the mud is returned to the active system.

The Mud Gas Separator controls gas cutting during kick situations, during drilling with significant drilled gas in the mud returns, or when trip gas is circulated up.

### Features:

- Sized to fit rig specific drilling needs
- Optional skid/platform
- No moving parts, thus minimizing maintenance
- All metal baffle plates allow for ease of repair

### Components:

- Mud Inlet
- Mud Discharge
- Gas Vent
- Inspection Port
- Manway
- Drain/Clean Out

## 2 TECHNICAL DESCRIPTION

### 2.1 General

The size and style of each connection vary. With several versions of the Mud Gas Separator available, there is a configuration to meet most needs and custom units are also available. Refer to the document package that came with your particular unit for equipment specifications.

Specifications	Mud Gas Separator
OVERALL LENGTH:	See GA drawing in your documentation package for weight and dimensions
OVERALL WIDTH:	
OVERALL HEIGHT:	
WEIGHT:	

Table - TD - 1 Specifications

## **2.2 Components**

### **2.2.1 Mud Inlet**

- Located near the top of the mud gas separator
- Allows for direct connection of flow line or choke manifold mud return

### **2.2.2 Mud Discharge**

- Located near the bottom of the mud gas separator
- Sized for drilling conditions
- Allows for the return of the mostly gas-free mud to the mud system

### **2.2.3 Gas Vent**

- Located at the top of the mud gas separator
- Allows for venting of the gas, or in most cases for a direct plumbing connection to vent at a safe distance (plumbing provided by other)

### **2.2.4 Inspection Port**

- Small port used for spot check inspection without having to take the unit off-line

### **2.2.5 Manway**

- Large port used to gain access to the vessel for inspection or maintenance

### **2.2.6 Drain/Clean Out**

- Located at the bottom of the vessel
- Allows for periodic clean out of the vessel to remove large debris

## **2.3 Paint Specifications**

Paint specifications per NOV Standard provided upon request.