M-I SWACO
A Schlumberger Company

HORIZONTAL VACUUM D-GASSER

FEATURES

- Skid-mounted design simplifies spotting and installation
- Totally self-contained
- Three-way float valve allows venting to the flare line during H_2S service
- Only three moving parts
- Rugged construction
- Corrosion-resistant, epoxy coated inside and out to ensure long life and minimum maintenance

BENEFITS

- Removes virtually all entrained gases, including H_2S and corrosive oxygen, from drilling fluids
- Reduces the threat of dangerous and costly blowouts
- Handles up to 1,000 GPM (3,785.4 L/min)
- Restores mud to its original density allowing for reuse in the active mud system

Introduced in 1951, the M-I SWACO HORIZONTAL VACUUM D-GASSER† has performed reliably on over 200,000 wells and has earned its reputation as the standard of the industry.

All M-I SWACO D-GASSER units are designed to remove virtually all entrained gases, including H_2S and corrosive oxygen, from drilling mud. This reduces the threat of dangerous and costly blowouts caused by recirculating gas-cut mud.

Features

Skid-mounted. Simplifies spotting and installation.

Self-contained. The unit consists of a cylindrical vacuum tank with internal baffle system, vacuum pump, jet nozzle and three-way float valve.

Three-way float valve. Unique design allows venting to the flare line during H_2S service.

Simple operation. The return-flow, gas-cut mud is drawn into the tank through a vacuum created by the discharge jet and pump. The mud is then dispersed in a thin layer over a two-tier, baffle-plate system where the entrained gas, including H_2S and corrosive oxygen, is recovered by the vacuum pump. The freed gas is then discharged at a safe distance from the drilling operation while the restored mud is returned to the active mud system.

Few moving parts. The D-GASSER unit features only three moving parts: the float inside the vacuum vessel, the vacuum breaker valve and the vacuum pump. The float ensures that the system maintains the desired mud-fill level within the vessel during operation.

High performance. The D-GASSER unit can handle up to 1,000 GPM (3,785.4 L/min) while restoring mud to its original density.

Built rugged. The unit is ruggedly built and coated inside and out with a corrosion-resistant epoxy to ensure long life and minimum maintenance.

How It Works

The return-flow, gas-cut mud is drawn into the tank through a vacuum created by the discharge jet and pump. The mud is then dispersed in a thin layer over a two-tier, baffle-plate system where the entrained gas, including H_2S and corrosive oxygen, is recovered by the vacuum pump. The freed gas is then discharged at a safe distance from the drilling operation while the restored mud is returned to the active mud system.

Specifications

D-GASSER	Length in. (mm)	Width in. (mm)	Height in. (mm)	Weight lb (kg)
Horizontal Unit	157 (3,988)	42 (1,067)	87 (2,210)	3,350 (1,521)

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