HORIZONTAL VACUUM D-GASSER

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 H₂S 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 H₂S 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 H₂S 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 H₂S 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.

Benefits

- Removes virtually all entrained gases, including H₂S 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.

Features

- Skid-mounted design simplifies spotting and installation.
- Totally self-contained.
- Three-way float valve allows venting to the flare line during H₂S service.
- Only three moving parts.
- Rugged construction.
- Corrosion-resistant, epoxy coated inside and out to ensure long life and minimum maintenance.
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>Length in. (mm)</th>
<th>Width in. (mm)</th>
<th>Height in. (mm)</th>
<th>Weight lb (kg)</th>
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<tbody>
<tr>
<td>D-GASSER</td>
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<tr>
<td>Horizontal Unit</td>
<td>157 (3,988)</td>
<td>42 (1,067)</td>
<td>87 (2,210)</td>
<td>3,350 (1,521)</td>
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