

# MAXIMIZING EFFICIENCY, OPERATION, SAFETY AND MAINTENANCE

Our DG degassers efficiently and effectively remove gasses from gas-cut mud. This ensures the proper mud weight is pumped downhole aiding in the prevention of blowouts. In addition, the DG degasser improves the performance of surface mud systems, and increases operational safety by removing most entrained gasses in drilling fluids immediately downstream of the shakers and upstream of any centrifugal pumps. DG degassers are engineered and manufactured to provide years of reliable service.

DG degassers are skid mounted, high-efficiency degassers with a Class I/Div 1 starter and motor. The external JP-10 jet pump system pulls the gas-cut mud into the degasser, and spreads it over the internal fiberglass dispersion plates (leaves) in thin layers, separating gas bubbles from the drilling mud. Liquid levels are regulated by a float assembly to ensure the vessel maintains a safe operating capacity. A vacuum pump mounted on the skid or tank top then pulls the gas out of the degasser to be piped away for safe venting or flaring. The DG-10/12 NR-13 also meets ASME requirements for pressure vessels, and are stamped ASME “U”. Contact your NOV sales representative for more information.



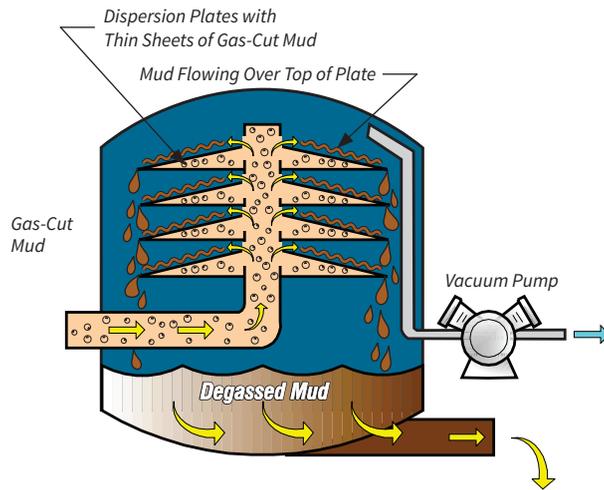
DG-5 Degasser



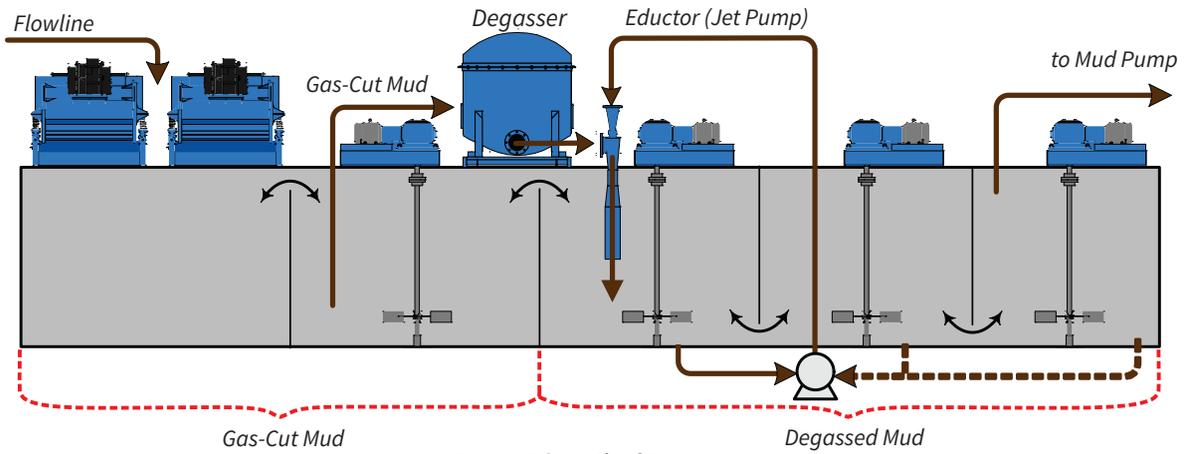
DG-10/12 Degasser

FEATURES	BENEFITS
Interior components are coated with corrosion resistant cold tar epoxy	Long part life with minimum maintenance
Float-regulated liquid level in the degasser chamber	Ensures that the system will not overflow or run dry
High performance educator pulls mud into degasser	Eliminates gas-locking and allows the degassed mud to be discharged up to 20 ft (6 m) away, thus simplifying installation
Vacuum pump located on each skid	Protects vacuum unit from damage and provides for simple maintenance
Fail safe secondary float and filler	Keeps mud from entering the vacuum pump
Dispersion plates create thin sheets of gas-cut mud	Brings entrained gas closer to the mud surface for easy removal
Vertically-mounted units	Enables installation in confined spaces due to small footprint; additionally, these units process 500 gal/min (1892 L/min) and 1000 gal/min (3785 L/min) or 1200 gal/min (4542 L/min) of mud respectively
Certifications available upon request	DG-10/12 units can be certified ABS, DNV, or NR-13

# BRANDT™ DG Series Degassers



Process Flow of DG Degasser



Process Schematic of Degassers

## Nominal Specifications and Dimensions

GENERAL	DG-5	DG-10/12	DG-10/12	DG-10/12 NR-13
Flow Rate (with water)	500 gal/min (1892 L/min)	1000 gal/min (3785 L/min)	1200 gal/min (4542 L/min)	1000 gal/min (3785 L/min)
Length	54 in (1372 mm)	67 1/8 in (1705 mm)	67 1/8 in (1705 mm)	73 7/16 in (1865 mm)
Width	88 in (2235 mm)	100 in (2540 mm)	100 in (2540 mm)	100 1/4 in (2546 mm)
Height	62 in (1575 mm)	77 11/16 in (1973 mm)	77 11/16 in (1973 mm)	73 9/16 in (1868 mm)
Weight	2,390 lb (1085 kg)	3,300 lb (1497 kg)	3,300 lb (1497 kg)	4,440 lb (2014 kg)
Centrifugal Pump Requirements*	500 gal/min @ 75 ft of head (1892 L/min @ 23 m of head)	1000 gal/min @ 75 ft of head (3785 L/min @ 23 m of head)	1200 gal/min @ 100 ft of head (4542 L/min @ 30 m of head)	1000 gal/min @ 75 ft of head (3785 L/min @ 23 m of head) 1200 gal/min @ 100 ft of head (4542 L/min @ 30 m of head)
<b>VACUUM PUMP</b>				
Motor Power	5 hp (3.7 kW)	5 hp (3.7 kW)	5 hp (3.7 kW)	5 hp (3.7 kW)
Vacuum Rating	8 - 15 in (203 - 381 mm) of mercury			

\*Centrifugal pump supplied by customer. Degasser performance dependent on feed rate to eductor. NOV also offers an atmospheric degasser upon request. Please contact your NOV representative for more details.