

TITLE: QUANTITATIVE GAS MEASUREMENT™ SYSTEM

DEPARTMENT: TECHNICAL SUPPORT

DESCRIPTION:

The QUANTITATIVE GAS MEASUREMENT™ or “QGM™” System includes a continuous gas extraction device that enables accurate, consistent, and reliable gas-in-mud measurements to be made while drilling. QGM™ uses a highly sensitive, constant volume, controlled gas trap that provides stable gas extraction over a wide range of operating conditions. Calibration of the trap to actual gas-in-mud values results in accurate, consistent gas-in-mud measurements that can be used for meaningful analysis and well-to-well correlations.



A. Standard Unit Specifications.

GENERIC DESCRIPTION: QGM™ System

GAS TRAP:

BRAND: Gas Research Institute

MODEL: QGM™ (Quantitative Gas Measurement)

FEATURES: Contains a pyramid-shaped agitator, redesigned mud exit tube, agitator-rod seal, and internal baffles to control mud flow and prevent splashing of mud in the gas ports.

AGITATOR MOTOR:

BRAND: GAST

MODEL: 2AM-NCC-16

MAXIMUM SPEED: 3,000 RPM. 350 RPM (at maximum Torque)

MAXIMUM TORQUE: 26.1 lb-in. or 3.05 Nm
19.5 lb-in. or 2.2 Nm (at maximum RPM)

MOTOR OUTPUT POWER: 0.93 hp (0.68 kW) (at maximum RPM)

MAXIMUM AIR CONSUMPTION: 30 cfm (49.5 m³/hr)

APPROVAL:

Dept. Supervisor : VICTOR SAET

Date: 12th August 2002

Technical Committee : ALAN MORRISON

Date: 12th August 2002