

# DGA

## Modular, fullbore gauge carrier for multiple sensor types

### APPLICATIONS

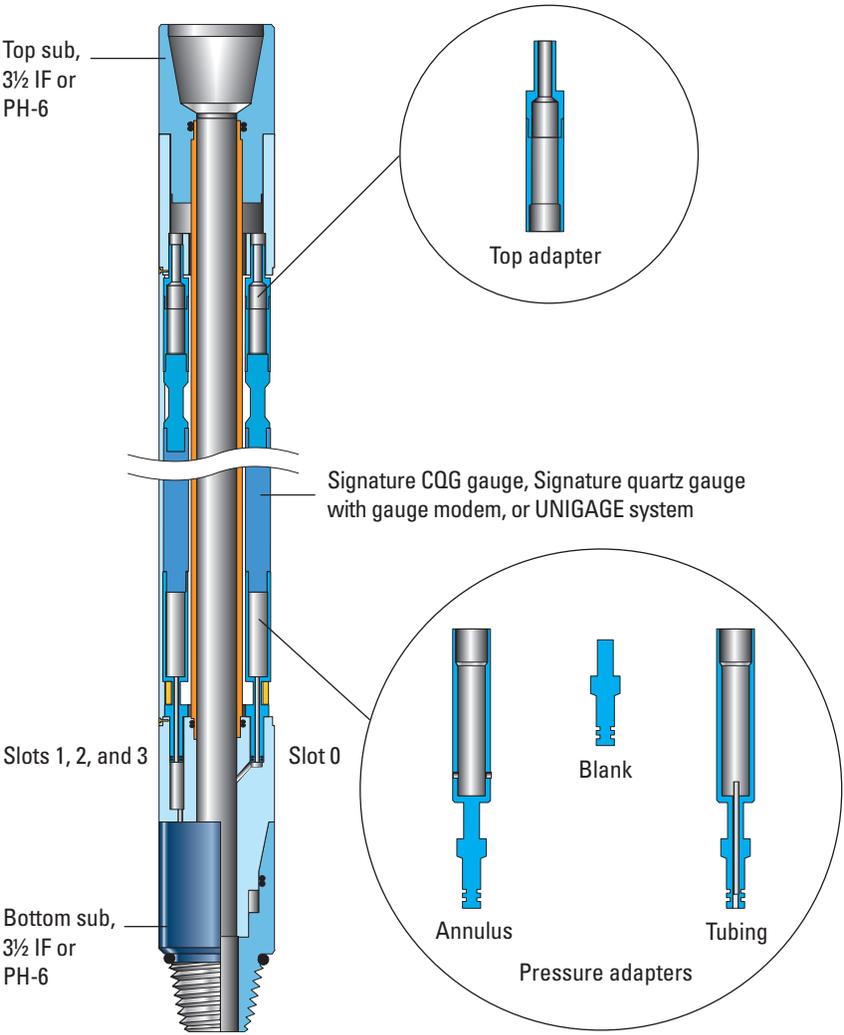
- Downhole reservoir testing
- Exploration or appraisal testing
- Shoot-and-pull operations
- Operations using Signature CQG\* crystal quartz gauges and Signature\* quartz gauges
- Operations using the UNIGAGE\* pressure gauge system

### ADVANTAGES

- Quick rig-up time for more cost-efficient operations
- Ability to carry up to four pressure gauges and four gauge modems for wireless telemetry
- Full choice of sensor types
- Internal-tubing or annulus-pressure reading capability
- No offset outside diameter

The DGA is a modular, scalable recorder carrier that can carry any combination of up to four recorders from Signature quartz gauges, Signature CQG gauges, or the UNIGAGE system. The DGA carrier offers a choice of gauges using various sensor types, including a sapphire pressure sensor, a standard quartz sensor, and a crystal quartz sensor. The DGA also conveys wirelessly enabled Signature gauges as part of the Quartet\* downhole reservoir testing system enabled by Muzic\* wireless telemetry. The system allows acquisition and validation of real-time downhole pressure measurements as well as monitoring and controlling of reservoir test operations.

As a stand-alone gauge carrier, four slots of the DGA can be ported to read internal tubing pressure or annulus pressure. The DGA is a true fullbore gauge carrier with no offset outside diameter. Its quick rig-up time and a short makeup length make it the ideal choice for operations using the Signature CQG gauge or UNIGAGE system.



Stand-alone DGA.

## Specifications

Model	DGA-C/D	DGA-HT	DGA-HP	DGA-U
Max. OD, in [mm]	5 [127]	5 [127]	5 [127]	5 [127]
Tool ID, in [mm]	2.25 [57]	2.25 [57]	2 [50]	2.25 [57]
Pressure ratings				
Differential, psi [MPa]	15,000 [103]	15,000 [103]	17,500 [121]	15,000 [103]
Max. annular, psi [MPa]	20,000 [138]	22,000 [152]	22,000 [152]	22,000 [152]
Max. tubing, psi [MPa]	20,000 [138]	22,000 [152]	22,000 [152]	22,000 [152]
Temperature rating, degF [degC]	350 [175]	400 [205]	400 [205]	400 [205]
Length, ft [m]	9.0 [2.7]	9.0 [2.7]	9.0 [2.7]	9.0 [2.7]
Weight, lbm [kg]	440 [200]	440 [200]	440 [200]	440 [200]
Service	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S	H <sub>2</sub> S (NACE MR0175/ISO 15156)
Connection	3½ IF or PH-6			

Run the DGA as part of the Quartet system enabled by Muzic telemetry. This system delivers the highest-quality pressure measurements and representative fluid samples with maximum safety and efficiency, for altogether better reservoir testing.

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