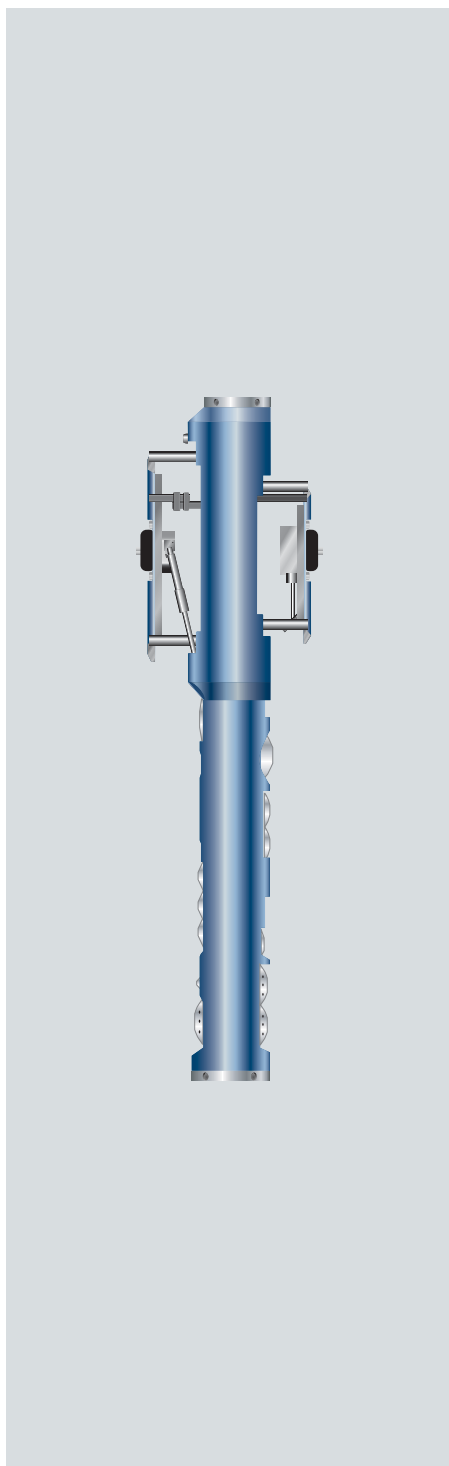


Dual-Probe Module

Schlumberger



The combination of the Single-Probe Module (MRPS) and Dual-Probe Module (MRDP) of the MDT* Modular Formation Dynamics Tester provides measurements for determining both the vertical and horizontal mobility unaffected by near-wellbore permeability alterations. Analysis of a pretest pressure transient from only a single probe cannot separate vertical from horizontal mobility, nor can it avoid the effects of near-wellbore alteration.

For a layer less than 2 ft [0.61 m] thick, the combination of the dual-probe and single-probe modules can straddle the layer to determine if the layer is a pressure barrier.

Mechanical Specifications

	MRDP
Temperature rating	392°F [200°C]
Pressure rating	20,000 psi [138 MPa]
Borehole size—min.	7 $\frac{5}{8}$ in. [19.37 cm]
Borehole size—max.	13 $\frac{1}{4}$ in. [33.65 cm]
Outer diameter	6 in. [15.24 cm]
Length	6.75 ft [2.06 m] MRDP-BA, MRDP-BB, MRDP-BC, and MRDP-BX: 8.6 ft [2.62 m]
Weight	298 lbm [135 kg]
Tension [†]	160,000 lbf [711,710 N]
Compression [†]	85,000 lbf [378,100 N]
H ₂ S service	Yes

[†]At 15,000 psi [103 MPa] and 320°F [160°C]. These ratings apply to all MDT modules except the Dual-Packer Module (MPRA). The compressive load is a function of temperature and pressure.