

GAUGE MANDREL FOR PERMANENT MONITORING



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APPLICATION

The gauge mandrel for permanent monitoring provides a protective recess for permanent gauges. It is used with various monitoring systems. The mandrel is available in various grades of metal to ensure characteristics equivalent or superior to the tubing. Various modifications of mandrels can carry single or multiple gauges, cable splices and cable heads. It is rated for various working pressures according to tubing weight and material grade. No inherent weak points or highly stressed areas exist in the mandrel because the mandrels are CNC machined from a single block with no weld seams. All SGMs are designed and manufactured to specifications for collapse pressures, burst pressures, tensile strengths, and drift. Mandrels are custom cut with premium connections.

The design features an internal bore with no sudden upsets that could cause flow to become turbulent or scale deposits to build up. Optionally, the design can include grooves to allow control line passage and protection. The gauge is fitted to the mandrel with a lower radial connector that provides a metal-to-metal seal between the gauge and the mandrel. This seal is pressure testable on the rig floor before the completion is run.

FEATURES AND BENEFITS

- Mechanical strength equal to or exceeding the tubing characteristics.
- Compact design.
- Wide range of metals to suit various downhole conditions.
- Construction from a single piece of metal with no welding.
- Highly reliable metal-to-metal connection to the gauge.
- Optional protective bypass grooves for electric lines.