PERMANENT GAUGE WELDED MANDREL
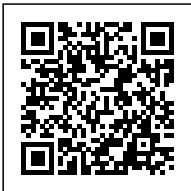

SKU: AN001-050-205
Categories: Advanced Monitoring, Downhole Instrumentation, KPerm™, Kuster®, Mandrels, Well Monitoring

PRODUCT DESCRIPTION

The permanent gauge welded mandrel is designed to connect the gauge onto the production tubing and to provide a path for the gauge to measure the internal tubing pressure. The tubing pressure is measured via a port leading to the inside of the production tubing. During the installation of the gauge, the mandrel provides full protection for the gauge and the cable head.

The mandrel design makes it suitable for both single and dual pressure permanent gauges. The I.D of the mandrel is the same as the production tubing; the OD can vary depending on the tubing and casing size. All designs are made to meet production-tubing specifications and manufactured in accordance to API 5CT, the tables below provide details for the 3 most common welded mandrel sizes.

Ratings & Dimensions

Mandrel size	**2-3/8" Mandrel**
Max pressure	5,000 psi
Max outer diameter	3.816 in (9.69 cm)
Inner diameter	1.995 in (5.07 cm)
Length	51.19 in (130.02 cm) – hand-tight engagement
Weight	4.7 lb / ft
Threaded connection	2.375 in 8 Rd Reg EUE
Materials	P-110; N-80; L-80; J-55
Applications	Piezo gauge

Mandrel size	**2-7/8" Mandrel**
Max pressure	5,000 psi
Max outer diameter	4.334 in (11.0 cm)
Inner diameter	2.441 in (6.2 cm)
Length	51.37 in (130.48 cm) – hand-tight engagement
Weight	6.5 lb / ft
Threaded connection	2.875 in 8 Rd Reg EUE

probe1.com
reliable technology | intelligent solutions

Materials	P-110; N-80; L-80; J-55
Applications	Piezo gauge

Mandrel size	**3-1/2" Mandrel**
Max pressure	5,000 psi
Outer diameter	5.084 in (12.7 cm)
Inner diameter	2.92 in (7.41 cm)
Length	51.75 in (131.45 cm) – hand-tight engagement
Weight	9.30 lb / ft
Materials	P-110; N-80; L-80; J-55
Applications	Piezo gauge

*Mandrel is third-party sourced.

Version Control: 2021.12.14

On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.

probe1.com
reliable technology | intelligent solutions