

## PERMANENT GAUGE SOLID MANDREL



**SKU:** AN001-100-217

**Categories:** [Advanced Monitoring](#), [Downhole Instrumentation](#), [KPerm™](#), [Kuster®](#), [Mandrels](#), [Well Monitoring](#)

## PRODUCT DESCRIPTION

The permanent gauge solid 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 mandrel sizes.

### Ratings & Dimensions

<b>Mandrel size</b>	<b>4-1/2" Mandrel</b>
<b>Max pressure</b>	15,000 psi
<b>Outer diameter</b>	5.91 in (15.0 cm)
<b>Inner diameter</b>	3.875 in (9.84 cm)
<b>Length</b>	70.0 in (1.77 m)
<b>Weight</b>	48.0 lbs (21.77 kg)
<b>Materials</b>	CS-4140 - 13Cr; other materials on request
<b>Threaded Connections</b>	EUE / VAM TOP - other threads on request
<b>Applications</b>	Piezo, Quartz KPerm gauges

<b>Mandrel size</b>	<b>3-1/2" Mandrel</b>
<b>Max pressure</b>	15,000 psi
<b>Outer diameter</b>	5.0 in (12.7 cm)
<b>Inner diameter</b>	2.92 in (7.41 cm)
<b>Length</b>	67.0 in (1.70 m)
<b>Weight</b>	38.0 lbs (17.20 kg)
<b>Materials</b>	CS-4140 - 13Cr; other materials on request

**Threaded Connections Applications**

EUE / VAM TOP - other threads on request  
Piezo, Quartz KPerm gauges

**Mandrel size**  
**Max pressure**  
**Outer diameter**  
**Inner diameter**  
**Length**  
**Weight**  
**Materials**  
**Threaded Connections Applications**

**2-7/8" Mandrel**  
15,000 psi  
4.50 in. (11.43 cm)  
2.40 in. (6.09 cm)  
66.0 in. (1.67m)  
33.0 lbs (14.97 kg)  
CS-4140 - 13Cr; other materials on request  
EUE / VAM - other threads on request  
Piezo, Quartz KPerm gauges

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