



### *Orientation Sub*

Weatherford's tubing-mounted orientation sub is placed directly above and/or below subassemblies and allows their makeup to the tubing string without the requirement of rotating either the tubing string or the subassemblies. This capability reduces makeup times and simplifies alignment of multiple eccentric components within the completion string.

### *Applications*

- Multi-zone intelligent completions that incorporate subassemblies with control lines that preclude the feasibility of rotating the tubing string or subassemblies
- Subassemblies that require pre-plumbing of control lines before installation
- Components that require alignment of eccentric features

### *Features, Advantages and Benefits*

- All metal-to-metal sealing provides a seal rating equivalent to tubing connections.
- The orientation sub enables alignment of components with eccentric offsets. Elimination of the need to rotate subassemblies or the tubing string simplifies makeup of subassemblies to the completion string to reduce overall rig times.
- Pin × pin configuration provides clamp points immediately above and below component for ease of handling and maximum control-line protection.

### *Specifications*

Size (in.)	2-7/8*	3-1/2	4-1/2*
Maximum OD (in./mm)	TBD	4.750 120.65	TBD
Minimum ID (in./mm)	TBD	2.906 73.81	TBD
Overall length (ft/m)	TBD	4.33 1.32	TBD
Burst and collapse (PSI/bar)	10,000 680	7,500 510	
Operating temperature (°F/°C)	120 to 300 49 to 149		

\*Contact Weatherford for availability.

