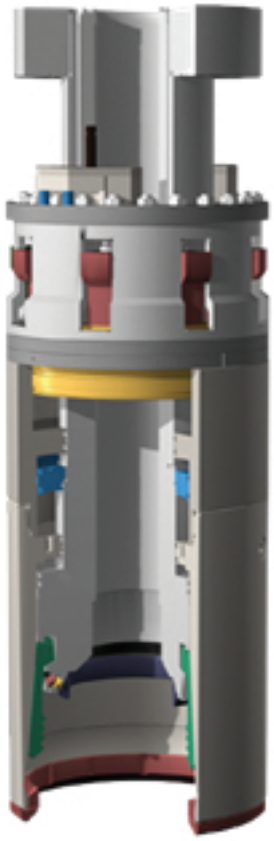
External Tie-Back Connector

Descriptions

Cameron's External Tie-Back Connector is used in dry completion production systems to connect the subsea wellhead to the riser system. The connector is an annular piston design which limits the maximum outside diameter to only 32.50" (82.5 cm). Hydraulic pressure acting on the piston activates collet segments similar to those in a traditional collet connector. In the locked position, the segments close around the 18-3/4" wellhead mandrel.

Design Features and Benefits

- **ROV Operation** – Hydraulic functions are operated via an ROV panel mounted above the connector to the stress joint.
- **Metal-to-Metal Sealing** – A metal-to-metal AX/VX gasket seals the connector to the wellhead.
- **High Load Bearing Capacity** – The connector has been tested to withstand bending loads of 2300 feet kip at 5500 psig bore pressure and 2800 feet kip at 0 psig bore pressure while maintaining the metal-to-metal seal interface.
- **Positive Unlock** – The unlock piston can unlock the connector with up to a 0.30 coefficient of friction. The connector also has a mechanical override which serves as an emergency disconnect.
- **Positive Disengagement** – A collet disengagement ring grips the bottom of the collets when the connector is unlocked, pulling them back into the shell and retaining them during disengagement.
- **Misalignment Protection** – The retracted collets form a cone at the connector bottom that permits a five degree misalignment angle relative to the wellhead to prevent damage of the gasket seal area during installation.



Available Capacity

Connector	Bending	OD
Slim	2.8 M ft-lbs	32.5"
High Capacity	5.3 M ft-lbs	53"