

ORIO™ Toe Sleeve

The ORIO™ Toe Sleeve is a hydraulically operated sliding sleeve which is run near the toe of a horizontal well. The toe sleeve allows the casing to be tested to surface pressures up to 15,000 psi. Once a successful test is achieved, the toe sleeve is opened at a predetermined pressure allowing communication to the formation. The toe sleeve allows for a high injection rate to facilitate subsequent plug and perf operations.

The unique and patented three-layer design keeps all the moving parts encapsulated and protected from the well-bore environment. This ensures that the sleeve, once activated, is always fully open.

The ORIO™ Toe Sleeve utilizes rupture disks and an atmospheric chamber to precisely control the opening pressure. Annular pressure and cement do not affect the opening pressure of the tool.

FEATURE & BENEFITS

- Equipped with dual rupture disks which allow for accurate opening pressures and casing tests in excess of 15,000 psi
- The opening piston is hydraulically balanced while running in the hole, thus preventing premature opening of the tool
- The unique and patented three-layer design keeps all the moving parts encapsulated and protected from the well-bore environment
- Shouldered connections allow for rotation while running in the hole or during cementing operations
- Compatible with heavy-duty cement wiper plugs
- Rated up to 18,000 psi

US Patents: 8267178B1 / 9476282B2



ORIO™ TOE SLEEVE

SIZE in	WEIGHT	MAX O.D. in	MIN I.D. in
4.500 Slim OD	4.500" 11.6-15.1 PPF	5.350	3.000
4.500 Big Bore	4.500" 11.6-13.5 PPF 5.000" All Weights	5.750	3.800
4.500/5.000 Standard	4.500" 11.6-15.1 PPF 5.000" All Weights	5.625	3.490
5.500 Standard	5.500" 17-23 PPF	6.760	4.240
5.500 Big Bore	5.500" 17-23 PPF	7.375	4.600