



ZoneSelect® Rupture Disk (RD) Toe Sleeve

The Weatherford *ZoneSelect* Rupture Disk (RD) Toe Sleeve is an integral part of multizone completions. Placed at the toe of the liner, the toe sleeve actuates when applied tubing pressure causes the disks to rupture. The inner sleeve then slides past the flow ports in the housing and locks in place.

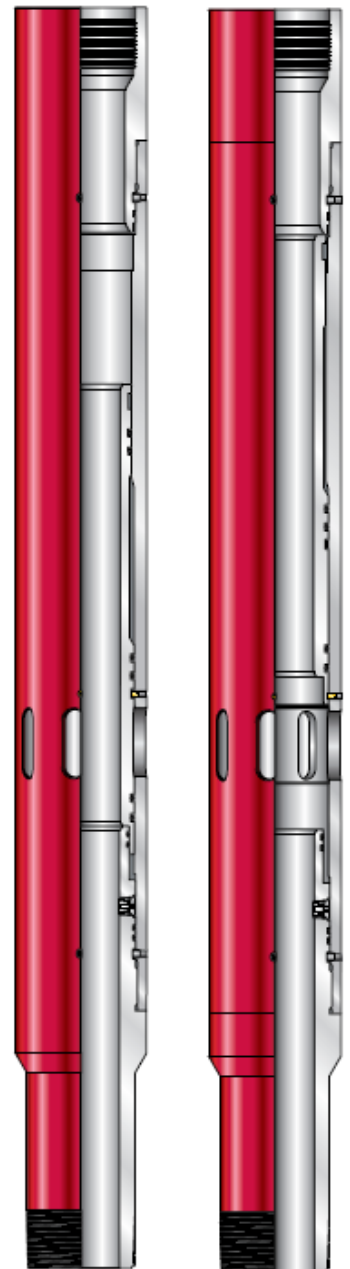
After the RD toe sleeve is open, *ZoneSelect* system balls or composite plugs can be pumped down to begin stimulation operations. If required, the first stimulation operation can be performed through the RD toe sleeve.

Applications

- Multistage slickwater and proppant fracture applications
- Horizontal or vertical wells
- Cemented and open hole completions
- As a component of the Weatherford *ZoneSelect* system

Features, Advantages and Benefits

- Actuation pressure tolerance is $\pm 2\%$ to provide a reliable indication that the sleeve has actuated, enhancing efficiency.
- Large-area flow ports provide maximum stimulation capacity, improving production rates.
- The sleeve locks open to prevent accidental closure, enhancing safety and reducing risk.
- The sleeve is not ported to the annulus, ensuring cement compatibility.
- During installation, hydrostatic pressure works to keep the sleeve closed and eliminate premature actuation of the sleeve, improving safety in operations.



*ZoneSelect® Rupture Disk (RD) Toe Sleeve**Specifications*

Sleeve Size (in)	4-1/2	5-1/2
Tubing Size (in./mm)	4.50 114.30	5.50 139.70
Tubing Weight (lb/ft, kg/m)	13.50 20.09	23.00 34.23
Burst Rating, 80ksi (psi/MPa)	10,300 71.02	11,400 78.60
Collapse Rating, 80ksi (psi/MPa)	9,700 66.88	10,600 73.08
Tensile Rating, 80ksi (lbf/N)	257,000 1,143,193	499,000 2,219,663
Burst Rating, 110ksi (psi/MPa)	14,200 97.91	15,700 108.25
Collapse Rating, 110ksi (psi/MPa)	13,400 92.39	14,700 101.35
Tensile Rating, 110ksi (lbf/N)	354,000 1,574,671	687,000 3,055,929
Maximum OD (in./mm)	5.65 143.51	6.75 171.45
Minimum ID (in./mm)	3.34 84.84	4.00 101.60
Port Flow Area (in ² /mm ²)	21.54 13,897	24.50 15,806
Burst Disk Ratings ^{a,b} (psi/MPa)	8,500 to 14,500 58.61 to 99.97	8,500 to 15,500 58.61 to 106.87
Maximum temperature (°F/°C)	325 163	

^a For custom burst disk ratings, contact your Weatherford representative.

^b Disks are available in 1,000psi (6.89MPa) increments.