



Circulation Control Joint/Rupture Disk Sub

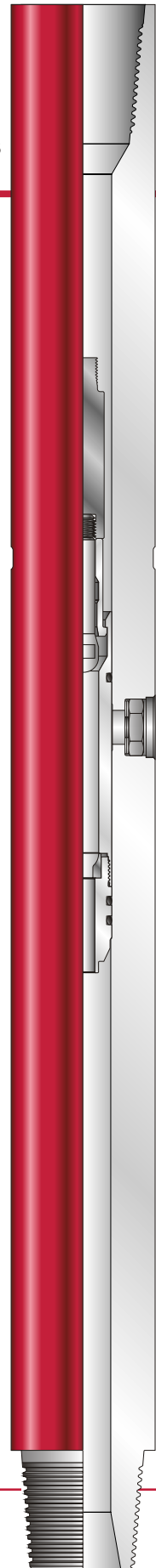
Weatherford's circulation control joint/rupture disk sub allows establishment of circulation at a predetermined hydraulic pressure to the work string. The circulation control joint is most commonly used to prevent pulling a wet string in plugged-fish recovery operations and as a point of circulation if a plugged fish is engaged. With the rupture disk removed, the circulation control joint is also used as a seating sub for wireline washout tools, as a kick sub, and as a drain sub. If circulation is required below the circulation control joint after the rupture disk has been ruptured, or if a rupture disk was not run in the hole, the circulation port can be resealed by dropping a restriction plug (which is also wireline retrievable) from surface.

Applications

- Plugged-fish engagement and recovery operations
- As a seating sub in wireline washout operations
- As a drain or kick sub

Features, Advantages and Benefits

- Circulation can be established, if a plugged fish is engaged, to keep the work string from sticking.
- The circulation control joint prevents pulling a wet string, saving drilling mud and trip time.
- The circulation port can be resealed from surface to allow attempts to circulate below the circulation control joint.
- The ID of the circulation control joint is large enough for wireline tools to pass through in free-point and back-off operations.





Circulation Control Joint Rupture Sub

Specifications

OD (in./mm)	Connection (Box x Pin)
4-1/8 104.800	2 7/8-in. API IF (NC-31)
4-3/4 120.700	3 1/2-in. API IF (NC-38)
5-1/2 139.700	4 1/2-in. API Reg.
5-3/4 146.100	4 1/2-in. API FH
6 152.400	4-1/2 in. X-Hole
6-1/4 158.800	4 1/2-in. API IF (NC-50)
8 203.200	6 5/8-in. API Reg.

Control Washer Bore (in./mm)	Burst Pressures for Circulation Control/Joint Rupture Disk Sub (PSI/bar)	
	Rupture Disk Thickness	
	0.010 in.	0.015 in.
1/2 12.700	2,850 196.5	4,300 296.5
9/16 14.288	2,200 151.7	3,600 248.2
5/8 15.875	2,000 137.9	2,700 186.2
11/16 17.463	1,700 117.2	2,500 172.4