

DT/DS Premium Connections

RDT offers two types of high torque connections; our DT, which is our premium high torque connection and our DS, which is our premium double shoulder connection. Each provides a substantial increase in drilling safety and performance with enhanced torque capacity. With our DT product the torque capacity is 40% greater than standard API connections and our DS product is 30% greater for comparable size drill pipe. This enhanced torsional strength is ideal for use in today's aggressive drilling programs.

DS Connections

The design of the DS allows the primary external shoulder to serve as the sealing surface. The mechanical stop for the connection is served by the secondary shoulder. To provide additional torsional strength for high torque applications, the DS pin and box sections are engineered to distribute the make-up forces between the two shoulders. Like many other double shoulder connections in the industry, our DS threads follow standard API specifications making it interchangeable with API connections of comparable size, thus giving our customers the flexibility of using our products with existing conventional drill strings. Our DS is interchangeable with the following API thread connections:

DS38 NC38
DS40 NC40
DS46 NC46
DS50 NC50
DS55 5 1/2 FH



DT Connections

DT connections are double shoulders connections with API thread profiles. The longer internal secondary shoulder on the nose of pin provides additional torsional strength. With the same outside diameter and inside diameter, our DT connection torque capacity is about 40% higher than the API connection. This higher torsional capacity allows more tool joint OD wear than that of an API connection. DT connections are fully interchangeable with other high torque connections. Please contact your RDT representative on which high torque connections are best for your specific application.



DT/DS Improves Performance

By maintaining higher torsional strengths than the standard API connection and using a larger than standard bore in the tool joint, improved flow rates can be obtained on both our DS and DT connections. When faced with tough downhole applications, using our DT/DS connec-



tions will improve hydraulics and maintain tool joint torsional strength without decreasing the life of the connection, making it the perfect choice.

RDT Customer Focus

At RDT continuous focus on our customer's needs remains paramount in the quality and flexibility of the products that we produce. Our DT/DS high torque connections are no exception. No special handling tools are necessary, no additional trip time is needed to make and break the connection, as the running procedure on our DT/DS is similar to API connections.

When repairs are necessary to the DT/DS connections, they must be performed by licensed machine shops with NC machine capabilities. Many of the oilfield service centers around the world have this type of repair facility.

DT Tool Joint Connection Data

Size OD in.	Connection Type	Outside Diameter in.	Inside Diameter in.	Torsional Yield Strength ft-lb	Tensile Yield Strength lb	Make-up Torque ft-lb	Pin Tong Space in.	Box Tong Space in.
3 1/2	DT38	4 3/4	2 11/16	25,300	587,300	15,200	10	15.5
	DT38	4 3/4	2 9/16	26,900	649,200	16,100	10	15.5
	DT38	4 3/4	2 7/16	28,400	708,100	17,000	10	15.5
4	DT38	4 3/4	2 11/16	25,300	587,300	15,200	10	15.5
	DT38	4 3/4	2 9/16	26,900	649,200	16,100	10	15.5
	DT38	4 3/4	2 7/16	28,400	708,100	17,000	10	15.5
	DT38	5	2 9/16	29,600	649,200	17,800	10	15.5
	DT38	5	2 7/16	33,000	708,100	19,800	10	15.5
	DS40	5 1/4	2 11/16	32,700	776,400	19,600	9	12
4 1/2	DS40	5 1/4	2 9/16	36,400	838,300	21,800	9	12
	DT50	6 1/4	3 3/4	52,700	939,100	31,600	9	15
	DT50	6 3/8	3 1/2	65,700	1,109,900	39,400	9	15
	DT50	6 1/4	3 5/8	59,200	1,026,000	35,500	9	15
5	DT50	6 1/4	3 1/2	62,700	1,109,900	37,600	9	15
	DT50	6 5/8	3 3/4	53,300	939,100	32,000	9	15
	DT50	6 5/8	3 1/2	66,200	1,109,900	39,700	9	15
	DT50	6 5/8	3 3/4	53,300	939,100	32,000	9	15
5 1/2	DT55	7	4	77,200	1,265,800	46,300	10	15

DS Tool Joint Connection Data

Size OD in.	Connection Type	Outside Diameter in.	Inside Diameter in.	Torsional Yield Strength ft-lb	Tensile Yield Strength lb	Make-up Torque ft-lb	Pin Tong Space in.	Box Tong Space in.
3 1/2	DS38	4 7/8	2 9/16	25,700	649,200	15,400	10	12.5
	DS38	5	2 7/16	29,200	708,100	17,500	10	12.5
4	DS40	5 1/4	2 11/16	32,700	776,400	19,600	9	12
	DS40	5 1/4	2 9/16	36,400	838,300	21,800	9	12
4 1/2	DS46	6 1/4	3 1/4	43,300	901,200	26,000	9	12
	DS46	6 1/4	3	53,400	1,048,400	32,000	9	12
5	DS50	6 5/8	3 1/2	60,400	1,110,200	36,200	9	12
5 1/2	DS55	7	4	74,200	1,292,500	44,500	10	12
6 5/8	DS65	8	4 7/8	107,500	1,596,400	64,500	10	13



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