

USS-CDC™



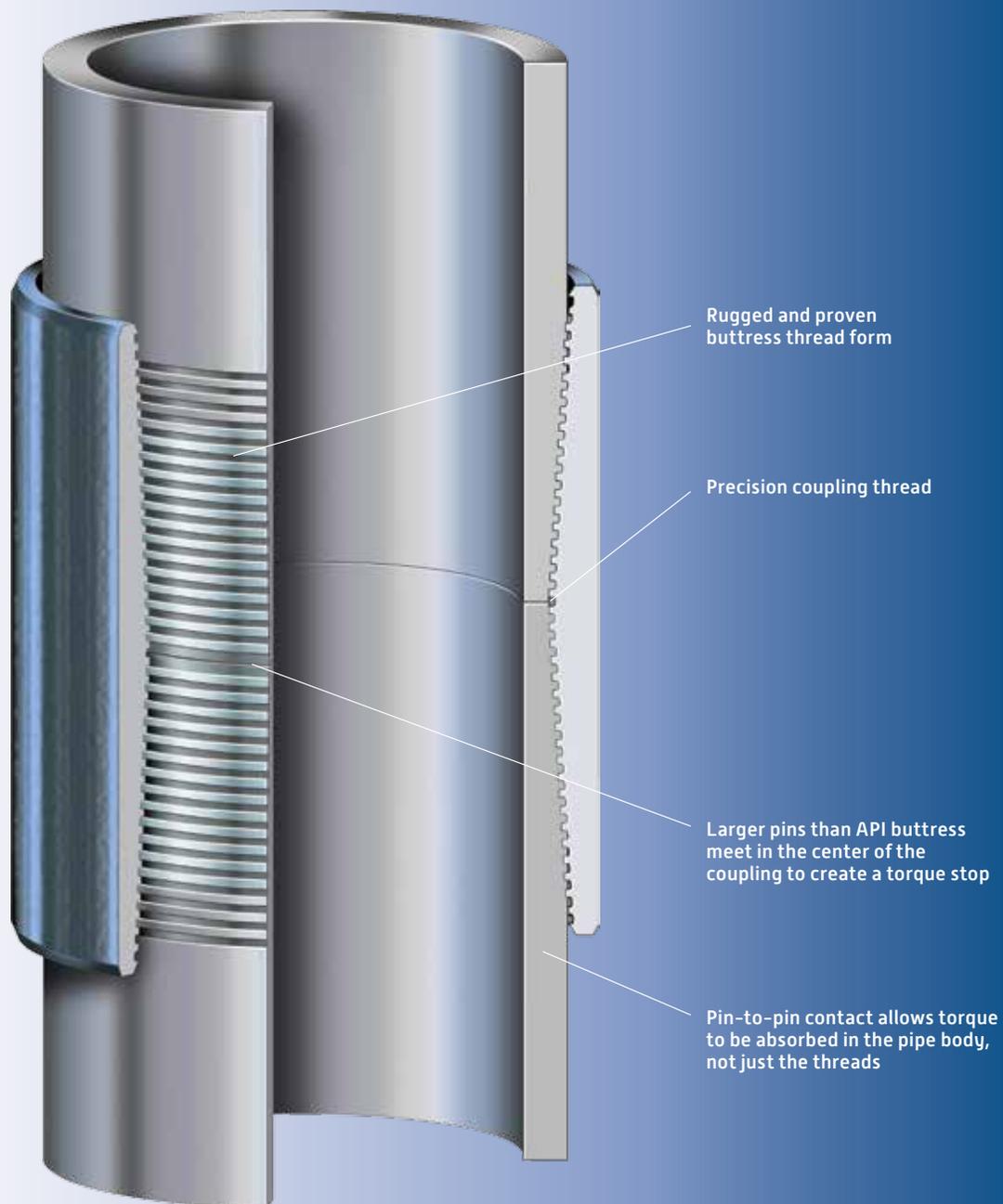
THE TUBULAR SOLUTION FOR DRILLING WITH CASING



U. S. Steel Tubular Products

USS-CDC™

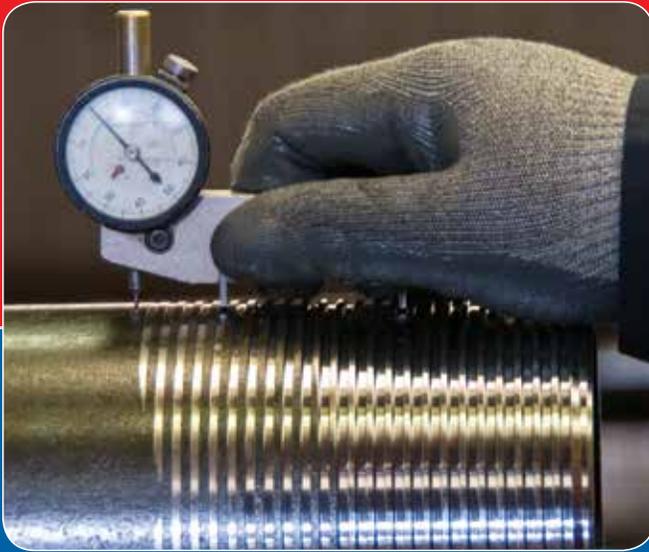
ENGINEERED AND PROVEN FOR CASING DRILLING





The U. S. Steel Tubular Products team recognized the need for a connection that provides high torsional loads, enhanced fatigue resistance and easy handling characteristics while maintaining the economics of the drilling program. To meet these requirements, U. S. Steel Tubular Products created USS-CDC™, a casing connection specially designed and engineered for casing drilling.

Whether you are drilling with casing or simply need to rotate through a tight dogleg, the USS-CDC™ connection will get you there on time and on budget.



A modified API Buttress threaded and coupled connection, the U. S. Steel Tubular Products USS-CDC™ is specially designed, engineered and proven for today's casing drilling applications. The standard API thread form provides familiar handling characteristics and an industry-accepted thread sealing pressure resistance. The field-proven USS-CDC™ connection is ideal for casing drilling and other applications requiring the need for higher torques and rotation of the pipe.

ENGINEERED ADVANTAGES

The pins of the USS-CDC™ connection are longer than API Buttress connections, forming a controlled pin-to-pin contact area in the center of the coupling. At power tight make-up, the two pin members create a radial torque shoulder. The consistent pin-to-pin contact at the center of the coupling

ensures the high torsional forces exerted during rotary drilling are transmitted against the pipe body and not solely against the threads.

The pitch diameter of the mill end pin is larger than that of the field end pin, resulting in higher make-up torque on the mill end than on the field end. This feature greatly reduces the possibility of the coupling turning during make-up of the field end. The torque shoulder allows for easy make-up on the rig while providing higher drilling torques than API Buttress by directly transmitting torsional forces exerted on the connection during drilling operations. The delta torque in the connection also enhances fatigue resistance of the connection by preloading the shoulder.

USS-CDC™ connections are available in 4-1/2 to 13-3/8 inch sizes.

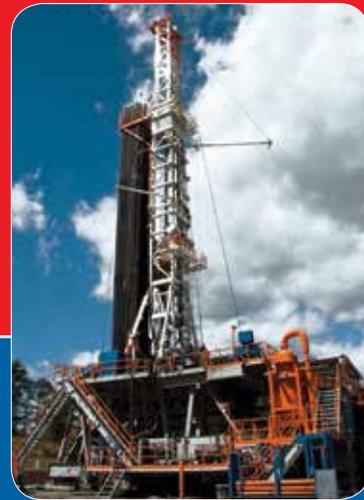


CONNECTION YIELD TORQUE

Pipe OD	Nominal Weight	Coupling OD	Connection Yield Strength		
			80,000	100,000	110,000
inches	lbs/ft	inches	ft-lbs	ft-lbs	ft-lbs
4 1/2	10.5	5.000	7000	7600	7800
4 1/2	11.6	5.000	7800	8400	8800
4 1/2	13.5	5.000	8800	9800	10300
4 1/2	15.1	5.000	10000	11300	11900
5	15.0	5.563	9600	10800	11400
5	18.0	5.563	11800	13500	14300
5	21.4	5.563	14100	16300	17500
5	23.2	5.563	15300	17800	19100
5 1/2	15.5	6.050	8600	9800	10400
5 1/2	17.0	6.050	10800	12300	13000
5 1/2	20.0	6.050	13100	15100	16100
5 1/2	23.0	6.050	15200	17700	19000
5 1/2	26.0	6.050	17400	20500	22100
6 5/8	24.0	7.390	15800	18500	19800
6 5/8	28.0	7.390	19600	23200	25000
6 5/8	32.0	7.390	22800	27300	29500
7	23.0	7.656	14200	16500	17600
7	26.0	7.656	17200	20200	21800
7	29.0	7.656	20200	24000	25900
7	32.0	7.656	23100	27600	29900
7	35.0	7.656	25900	31200	33800
7	38.0	7.656	28500	34400	37300
7 5/8	26.4	8.500	17100	19800	21200
7 5/8	29.7	8.500	20900	24600	26400
7 5/8	33.7	8.500	25200	30000	32400
7 5/8	39.0	8.500	30500	36700	39700
7 5/8	42.8	8.500	35100	42400	46100
7 5/8	45.3	8.500	37500	45400	49300
7 5/8	47.1	8.500	39700	48100	52300
8 5/8	32.0	9.625	21900	25800	27800
8 5/8	36.0	9.625	26900	32100	34700
8 5/8	40.0	9.625	32000	38400	41700
8 5/8	44.0	9.625	36900	44700	48600
8 5/8	49.0	9.625	42500	51600	56200
9 5/8	36.0	10.625	25300	30100	32500
9 5/8	40.0	10.625	30900	37200	40300
9 5/8	43.5	10.625	36100	43600	47400
9 5/8	47.0	10.625	40900	49600	53900
9 5/8	53.5	10.625	50000	61000	66500
9 5/8	58.4	10.625	56100	68700	74900
10 3/4	45.5	11.750	38800	46600	50500
10 3/4	51.0	11.750	47000	56800	61700
10 3/4	55.5	11.750	54200	65900	71700
10 3/4	60.7	11.750	62200	75800	82700
10 3/4	65.7	11.750	70000	85600	93400
11 3/4	47.0	12.750	39100	47000	50900
11 3/4	54.0	12.750	51000	61900	67300
11 3/4	60.0	12.750	61600	75100	81900
11 3/4	65.0	12.750	70300	86000	93800
11 3/4	71.0	12.750	79400	97400	106400
13 3/8	61.0	14.375	60900	74300	81000
13 3/8	68.0	14.375	73900	90500	98800
13 3/8	72.0	14.375	82600	101300	110700

NOTES

1. For sizes and grades not listed, please contact U. S. Steel Tubular Products.
2. High collapse grades have same yield torque as corresponding minimum yield strength.
3. Make-up torques will vary but shall not exceed 90% of connection yield torque. Reference USS-CDC™ Recommended Practices for more details.



RIG SITE SERVICES

U. S. Steel Oilwell Services recognizes the value of quality rig site services, particularly when running connections such as USS-CDC™.

Trained, experienced U. S. Steel employees are available to assist in running casing and tubing connections. Rig site personnel will inspect U. S. Steel connections in the storage yard or at the rig site and are trained to perform minor field repairs. Rig site services and benefits include:

- 24/7/365 service
- Assurance that correct running procedures are followed
- Visual inspection of connections
- Tools and training required to perform field repair
- Knowledge of full technical specifications and product performance data
- Ongoing training and direct access to engineering and technical staff
- Direct contact with licensed repair facilities

U. S. Steel Oilwell Services

Rig Site Services

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U. S. Steel Tubular Products

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