



DDI Group of Companies
DRILLING INNOVATION LLC
Effectiveness tested by Customer

SUBS

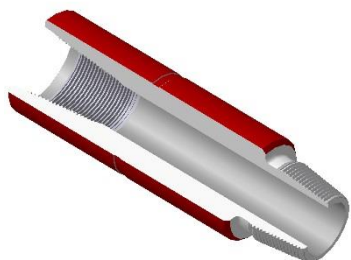
DESIGN FEATURES:

Subs are produced in all standard sizes.
Subs are produced with right and left connection threads.
There are the following types of subs:

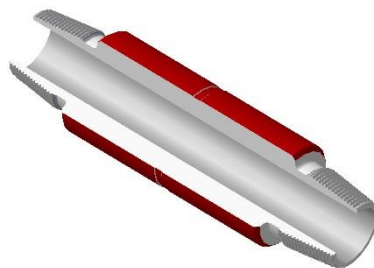
- X-over;
- Box sub;
- Pin sub.

NOTE:

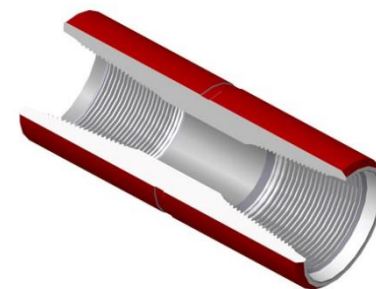
- Connection treaded with phosphate



X-over



Pin Sub



Box Sub

X-OVERS

CONNECTION		L	OD	OD2	ID	ID2
NC-23	2 3/8 Reg	12,6	3,15		1,34	
NC-23	2 3/8 Reg	11,81	3,15		1,42	
NC-26	NC-31	13,78	4,25		1,73	
2 7/8 Reg	NC-31	14,57	4,25		1,73	
NC-31	NC-38	16,54	4,25		1,97	
NC-31	NC-23	14,02	4,25		1,34	
NC-31	2 7/8 Reg	14,53	4,25		1,26	
NC-31	NC-31	14,53	4,25		2,13	
NC-31	3 1/2 Reg	15,55	4,45		0,06	
3 1/2 Reg	NC-40	19,69	4,45	5,24	2,28	
3 1/2 Reg	2 7/8 Reg	15,31	4,45		1,26	
3 1/2 Reg	NC-31	31,5	4,45		0,08	
NC-38	NC-31	16,54	4,57		1,65	
NC-38	NC-31	16,54	4,75		0,08	
NC-38	NC-31	16,54	4,75		2,13	
NC-38	NC-31	35,43	4,75		1,77	
NC-38	3 1/2 Reg	16,93	4,75		0,06	
NC-38	3 1/2 Reg	16,93	4,75		0,08	
NC-38	NC-38	16,93	4,75		0,08	
NC-38	NC-38	16,93	4,75		2,76	
NC-38	NC-50	19,69	4,75	6,10	3,07	
NC-50	NC-38	19,61	6,00		2,76	
NC-50	NC-38	19,61	6,00	4,72	2,76	
5 1/2 FH	4 1/2 Reg	20,67	7,00	5,51	1,93	
5 1/2 FH	6 5/8 Reg	20,35	7,75		3,50	
5 1/2 FH	NC-61	21,26	7,00	9,02	3,98	
5 1/2 FH	6 5/8 FH	20,51	7,00	7,99	3,98	
5 1/2 FH	NC-50	25,98	7,00	6,10	3,00	
6 5/8 Reg	4 1/2 Reg	20,94	7,75	5,51	2,28	
6 5/8 Reg	5 1/2 FH	20,35	7,75		3,98	
6 5/8 Reg	5 1/2 FH	20,35	7,75		3,94	
6 5/8 Reg	NC-61	21,26	7,75	9,02	3,98	
6 5/8 FH	6 5/8 FH	20,35	8,00		5,00	
NC-38	NC-38	16,93	4,75		2,20	
NC-51	5 1/2 FH	21,26	7,00	6,38	3,50	
5 1/2 FH	NC-51	21,26	7,00	3,38	3,50	
5 1/2 FH	5 1/2 FH	20,35	7,00		3,98	

PIN SUBS						
CONNECTION		L	OD	OD2	ID	ID2
4 ½ Reg	NC-50	20,47	6,10		2,36	
4 ½ FH	4 ½ FH	20,67	5,75		3,15	
NC-50	4 ½ Reg	20,47	6,10		2,28	
5 ½ FH	4 ½ Reg	24,02	7,01	5,50	2,28	
5 ½ FH	6 5/8 FH	27,83	7,99	7,01	3,98	
5 ½ FH	5 ½ FH	21,65	7,01		3,98	
5 ½ FH	6 5/8 Reg	21,65	7,76		3,50	
6 5/8 FH	7 5/8 Reg	21,65	8,86		3,98	
6 5/8 FH	8 5/8 Reg	26,42	10,00	7,99	4,72	

BOX SUBS						
CONNECTION		L	OD	OD2	ID	ID2
4 ½ Reg	4 ½ Reg	355	5,51		3,07	
NC-23	2 3/8 Reg	300	3,15		1,34	
NC-26	2 3/8 Reg	300	3,39		1,42	
2 7/8 Reg	NC-31	363	4,25	3,74	1,77	
2 7/8 Reg	3 ½ Reg	365	4,45	3,74	1,77	
NC-31	NC-31	325	4,25		1,65	
NC-31	3 ½ Reg	325	4,45		2,13	
NC-31	3 ½ Reg	800	4,13		1,97	
3 ½ Reg	NC-38	325	4,72		2,28	
NC-40	3 ½ Reg	366	5,24	4,45	2,28	
4 ½ FH	3 ½ Reg	398	5,75	4,45	2,28	
4 ½ FH	4 ½ Reg	356	5,75		3,07	
5 ½ FH	4 ½ Reg	400	7,01	5,51	3,07	
5 ½ FH	6 5/8 Reg	391	7,76	7,01	3,98	
6 5/8 FH	6 5/8 Reg	400	9,02		4,80	
6 5/8 FH	6 5/8 FH	415	7,99		5,00	
6 5/8 FH	7 5/8 Reg	400	9,02		3,98	
8 5/8 Reg	6 5/8 Reg	469	10,00		4,80	
8 5/8 Reg	7 5/8 Reg	420	10,00		3,98	

The prices for spare parts and other equipment are given by requests.

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