

TOOL JOINT

Tool joint style	Size and style	Nom Wt. lb/ft	Grade	Outside	Inside	Bevel	Total Length	Pin Tong Space	Box Tong Space	Combined Length of Pin and Box	Dia. Of Box at Elevator Upset	Dia of Box at Elevator Upset
				Dia of Pin and Box	Dia. Of Pin	Dia. Of Pin and Box shoulder						
NCA46 4 1/2 IEU	20.00	G	S	6 1/4	2 1/4	5 23/32	11 1/2	7	10	17	4 11/16	4 11/16
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
				6 5/8	3 3/4	6 1/16	11 1/2	7	10	17	5	5
NCS50 4 1/2 IEF	20.00	G	S	6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
				6 5/8	3 1/2	6 1/16	11 1/2	7	10	17	5 1/8	5 1/8
5 IEU	19.50	G	S	7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 1/8	5 1/8
5 1/2FH	21.90	G	S	7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
5 1/2 IEU	24.70	G	S	7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
				7 1/4	3 1/2	6 23/32	13	8	10	18	5 11/16	5 11/16
6 5/8FH IEU	22.70	G	S	8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16
				8 1/4	4 3/4	7 45/64	13	8	11	19	6 15/16	6 15/16

As well as for Crossover sub, Float Valve sub, Safety Joint, Circulating Sub, Oriented Bent Sub, Reversing Sub can be supply.

HEAVY WEIGHT DRILL PIPE (short for HWDP)

Usage: HWDP is the transition zone between drill collar and drill pipe. It can not only reduce stress-formation in the connection of drill collar and drill pipe, but also reduce the wear on OD. The wall thickness of heavy weight drill pipe is between drill pipe and drill collar, its structure is similar with drill pipe. It is made from premium alloyed steel. It's both tool joints and middleupset are welded hardbands.

Material: 4145H, 4145H Mod and non-magnetic material

Standard: According to API Spec 7-1 standard

Types: Integral Heavy Weight Drill Pipe

Integral Spiral Heavy Weight Drill Pipe

Hard band: Amco100XT, Amco200XT and Amco300XT; Botn1000, Botn3000, TCS8000, TCS-Titanium, Armacor M etc. Also we can

make according to customers' requirements.

Size: OD: 6 5/8" , ID: 1 1/2" min.



Technical specifications and parameters for Integral Heavy Weight Drill Pipe

Size(in)	O.D.(in)	I.D.(in)	Tool joint O.D.(in)	Tool joint I.D.(in)	Connection	Max. elevator Dia.(in)	Central upset Dia.(in)	Min. drift dia. size(in)			
									3 1/4	4	
3 1/2	3 1/2	2 1/4	4 3/4	2 1/4	NC38	3 7/8	4	1 13/16			
									2 1/16	(4 7/8 5)	2 1/16
									2 1/2	5 1/4	2 1/2
4	4	2 9/16	5 1/4	2 9/16	NC40	4 3/16	4 1/2	2 1/4			
									2 11/16	2 11/16	2 5/16
									2 3/4	6 1/4	2 3/4
4 1/2	4 1/2	2 13/16	6 1/4	2 13/16	NC46	4 11/16	5	2 7/16			
									2 3/4	2 3/4	2 1/2
									2 13/16	2 13/16	2 9/16
5	5	3	6 5/8	3	NC50	5 1/8	5 1/2	2 3/4			
									3 1/4	3 1/4	3
									7	7	3 1/8
5 1/2	5 1/2	3 7/8	(7 1/4, 7 1/2)	3 7/8	5 1/2FH	5 11/16	6	3 5/8			
									4	4	3 3/4
									8	8	3 3/4
6 5/8	6 5/8	4 1/2	(8 1/4, 8 1/2)	4 1/2	6 5/8FH	6 15/16	7 1/8	4 1/4			
									5	5	4 3/4

Integral Spiral Heavy Weight Drill Pipe is to extend the central upsets of heavy weight drill pipe and to cut spiral groove on heavy weight drill pipe.

Technical specifications and parameters for Integral Spiral Heavy Weight Drill Pipe

Size (in)	I.D.(mm)	Elevator upset(mm)	Pipe body			Tool joint		
			Elevator/slip groove O.D.(mm)	Spiral O.D.(mm)	Spiral depth (mm)	Connection	O.D.(mm)	I.D.(mm)
3 1/2	54.0	92.1	88.9	101.6	9.5	NC38	120.6	54
4 1/2	69.8	117.5	114.3	127	12.7	NC46	158.8	69.8
5	76.2	130.2	127	139.7	12.7	NC50	165.1	76.2