



DPHT Connection Data

DPHT-26						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		3 1/8	3 1/4	3 3/8	3 1/2	3 5/8
1 7/8	Maxi Make-up	2500	3600	4350	4500	4600
	Mini Make-up	1750	2950	3700	3900	4000
1 3/4	Maxi Make-up	3100	4150	5250	5600	5700
	Mini Make-up	1750	2950	4200	4500	4600
1 5/8	Maxi Make-up	3600	4650	5750	6700	6900
	Mini Make-up	1800	3000	4200	5100	5250
1 1/2	Maxi Make-up	4000	5050	6200	7350	7750
	Mini Make-up	1800	3000	4200	5400	5700
1 3/8	Maxi Make-up	4400	5450	6600	7800	8700
	Mini Make-up	1900	3050	4250	5500	6400

DPHT-31						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		3 7/8	4	4 1/8	4 1/4	4 3/4
2 1/4	Maxi Make-up	7200	8250	8400	8500	8700
	Mini Make-up	5500	6800	7000	7200	7600
2 1/8	Maxi Make-up	7700	9300	10050	10100	10400
	Mini Make-up	5500	7300	8000	8000	8400
2	Maxi Make-up	8400	9900	11500	11600	11900
	Mini Make-up	5600	7400	8700	8900	9200
1 7/8	Maxi Make-up	9000	10600	12000	12900	13400
	Mini Make-up	5800	7500	8800	9600	10500
1 3/8	Maxi Make-up	10800	12000	13900	15000	18200
	Mini Make-up	6100	7800	9400	10600	13500

DPHT-38						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		4 5/8	4 3/4	4 7/8	5	5 1/8
2 1 1/8	Maxi Make-up	13200	15200	15400	15500	15700
	Mini Make-up	10000	12350	12600	12700	12800
2 9/16	Maxi Make-up	14200	16400	17600	17700	17800
	Mini Make-up	10100	12500	13800	13900	14000
2 7/16	Maxi Make-up	15100	17200	19600	19800	20000
	Mini Make-up	10200	12600	14700	15000	15200
2 5/16	Maxi Make-up	16000	18100	20300	21800	22000
	Mini Make-up	10300	12700	14900	16000	16300
2 1/8	Maxi Make-up	17200	19500	21700	24000	24500
	Mini Make-up	10600	12800	15500	17500	18000

DPHT-40						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		4 7/8	5	5 1/8	5 1/4	5 3/8
2 15/16	Maxi Make-up	13000	15700	16300	16400	16500
	Mini Make-up	10000	12900	14000	14200	14300
2 13/16	Maxi Make-up	14200	16700	18900	19000	19100
	Mini Make-up	10300	13000	15400	15500	15600
2 11/16	Maxi Make-up	15300	17800	20200	21300	21500
	Mini Make-up	10400	13100	15600	16600	16800
2 3/2	Maxi Make-up	17000	19300	21900	24700	24900
	Mini Make-up	10700	13200	15800	18700	18800
2 3/8	Maxi Make-up	18000	20400	22900	25400	27100
	Mini Make-up	10800	13300	16100	18800	20100

DPHT-46						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		5 7/8	6	6 1/8	6 1/4	6 3/8
3 1/4	Maxi Make-up	28000	28100	28200	28400	28600
	Mini Make-up	21800	21900	22100	22300	22500
3	Maxi Make-up	33600	34400	34600	34700	34900
	Mini Make-up	24400	25400	25600	25800	25900
2 7/8	Maxi Make-up	34700	37400	37600	37800	3800
	Mini Make-up	24600	27200	27300	27600	27700
2 3/4	Maxi Make-up	36500	40300	40500	40800	41000
	Mini Make-up	24800	28600	28900	29200	29300
2 1/2	Maxi Make-up	38700	42000	46000	46200	46500
	Mini Make-up	24900	28900	31900	32200	32600

DPHT-50						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		6	6 1/4	6 3/8	6 1/2	6 5/8
3 3/4	Maxi Make-up	26700	31200	31300	31600	31800
	Mini Make-up	20000	24900	25000	25100	25200
3 1/2	Maxi Make-up	30500	37700	39200	39300	39500
	Mini Make-up	20500	27000	29000	29100	29300
3 1/4	Maxi Make-up	33800	41000	44700	46700	46900
	Mini Make-up	21000	27300	31300	33400	33600
3	Maxi Make-up	37000	44300	48100	52000	5400
	Mini Make-up	21200	27500	31600	35500	37600
2 3/4	Maxi Make-up	40000	47300	51000	55000	60400
	Mini Make-up	22000	27600	31700	35800	40900

DPHT-55						
ID Inch	Make up Tor. ft. lbs.	OD Inch				
		6 3/4	6 7/8	7	7 1/8	7 1/4
4 1/4	Maxi Make-up	35500	36400	36500	36600	36800
	Mini Make-up	28700	30100	30300	30400	30700
4	Maxi Make-up	39800	44200	46400	46700	46700
	Mini Make-up	29900	33400	35500	35600	35700
3 3/4	Maxi Make-up	44000	48400	53000	55700	55900
	Mini Make-up	29000	33500	38000	40700	40900
3 1/2	Maxi Make-up	48200	52500	57200	62000	64500
	Mini Make-up	29100	33800	38300	43000	45200
3 1/4	Maxi Make-up	52000	56400	61000	65800	70500
	Mini Make-up	29200	33900	38500	43300	48200

Minimum make up: Minimum make up torque based on shoulder separation while bending

Maximum make up: Maximum make up torque when the pin carry the maximum tensile load

Drill Pipes with DPHT Connections

PIPE DATA										TOOL JOINT							ASSEMBLY DATA			
Tube OD	Nominal Weight	Grade Upset	Torsional Yield New	Tensile Yield New	Tensile Yield Premium	Nominal ID	Pipe Body Section Area	OD	ID	Torsional Yield Strength	Maxi Make up Torque	Mini Make up Torque	Torsional Ratio	Tong Space Pin (APH+2")	Tong Space Box (APH+2")	Adjusted Weight	Minimum Tool Joint OD for Premium	Capacity	Displacement	
in	lb/ft		ft-lb	lb	lb	in	sq.in	in	in	ft-lb	ft-lb	ft-lb		in	in	lb/ft	in	US gal/ft	US gal/ft	
2 3/8	6.65	S135 EU	11 300	248 800	193 709	1.815	1.843	3 1/2	1 3/4	9300	5600	4500	0.82	9	12	7.32	3 11/32	0.134	0.112	
2 3/8	10.40	S135 EU	20 800	385 800	299 764	2.151	2.858	4 1/8	2	19100	11500	8700	0.92	9	13	11.32	3 15/16	0.187	0.173	
3 1/2	13.30	S135 EU	33 400	488 800	381 870	2.764	3.621	4 7/8	2 9/16	29300	17600	13800	0.88	10	15.5	14.68	4 11/16	0.309	0.225	
3 1/2	15.50	S135 EU	38 000	581 000	451 115	2.602	4.304	5	2 7/16	3300	19800	15000	0.87	10	15.5	17.24	4 11/16	0.273	0.264	
4	14.00	S135 IU	41 900	513 600	403 627	3.34	3.805	5 1/4	2 11/16	35500	21300	16600	0.85	9	15	15.76	5	0.445	0.241	
4	15.70	S135 IU	46 500	583 400	456 931	3.24	4.322	5 1/4	2 1/2	41100	24700	18700	0.88	9	15	17.52	5 1/16	0.418	0.268	
4 1/2	16.60	S135 IEU	55 500	595 000	468 297	3.826	4.407	6	3 1/4	46800	28100	21900	0.84	9	15	18.64	5 19/32	0.587	0.285	
4 1/2	20.00	S135 IEU	66 400	742 200	581 248	3.64	5.498	6	3	57300	34400	25400	0.86	9	15	22.39	5 27/32	0.530	0.342	
5	19.50	G105 IEU	57 600	553 800	436 150	4.276	5.275	6 1/2	3 3/4	52600	31600	25100	0.91	9	15	21.87	5 15/16	0.735	0.335	
5	19.50	S135 IEU	74 100	712 100	560 764	4.276	5.275	6 1/2	3 1/2	65500	39300	29100	0.88	9	15	22.35	6 1/32	0.730	0.342	
5	25.60	G105 IEU	73 200	742 200	580 566	4	7.069	6 1/2	3 1/2	65500	39300	29100	0.89	9	15	27.84	6 1/32	0.643	0.426	
5	25.60	S135 IEU	94 100	954 300	746 443	4	7.069	6 1/2	3 1/4	77800	48700	33400	0.83	9	15	28.39	6 5/32	0.638	0.434	
5 1/2	21.90	G105 IEU	71 000	612 000	482 692	4.778	5.828	7	4	77300	46400	35500	1.09	10	15	24.85	6 7/16	0.913	0.380	
5 1/2	21.90	S135 IEU	91 300	786 800	620 604	4.778	5.828	7	4	77300	46400	35500	0.85	10	15	24.85	6 11/16	0.913	0.380	
5 1/2	24.70	G105 IEU	79 200	696 100	547 799	4.67	6.63	7	4	77300	46400	35500	0.98	10	15	27.30	6 17/16	0.874	0.418	
5 1/2	24.70	S135 IEU	101 800	895 000	704 313	4.67	6.63	7 1/8	3 3/4	92800	55700	40700	0.91	10	15	27.88	6 23/32	0.871	0.427	