



PATTERSON RENTAL TOOLS

4 1/2" BN 16.60# S-135 XH Drill Pipe

Product:	4 1/2" BN	DP412BNS135
Tube Size:	4 1/2"	In.
Nominal Weight / Ft.:	16:60#	Lbs./Ft.
Tube Grade:	S-135	
Connection:	NC-46 (4 1/2" XH)	
Tube Specifications		
Inside Diameter:	3.826	In.
Wall Thickness:	0.337	In.
Tensile Yield New:	595,000	Lbs.
Premium:	476,000	Lbs.
Torsional Yield New:	55,500	Ft-Lbs.
Premium:	43,500	Ft-Lbs.
PSI Burst (New/Premium):	17693 / 16176	PSI
Collapse (New/Premium):	16773 / 10964	PSI
Engineering Data:		
Drift Diameter:	2.875	In.
Adj. Weight / Foot:	19.57	Lbs./Ft.
Avg Jt Length / Jt Weight:	31'	Feet Lbs.
Displacement(Open):	0.299	Gal./Ft.
	0.712	Bbl./100 Ft.
Capacity:	0.582	Gal./Ft.
	1.386	Bbl./100 Ft.
Connection Specifications		
Outside Diameter:	6 1/4"	In.
Minimum OD	5 3/4"	In.
Inside Diameter:	3"	In.
Tensile Yield New:	1,048,400	Lbs.
Premium:	985,496	Lbs.
Torsional Strength New:	39,700	Ft./lbs.
Maximum Torque New:	20,500	Ft./lbs.
Minimum Torque New:	19,800	Ft./lbs.
Make Up Torque:		
ID. Markings:	1 groove	
Minimum usage length:	Box 6 1/8" Pin 4 3/4"	
Special Note:		

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Tubing

1" thru 4 1/2"

Drill Pipe

2 3/8" thru 5 1/2"

Heavy Weight Drill Pipe

2 7/8" thru 6 5/8"

Drill Collars

2 7/8" thru 10"

Blow-Out Preventers

Annular Type

2 9/16" 5M thru 29 1/2" 500 PSI

Hydraulic Ram Type

Single and Double

3 1/16" 10M thru 16 3/4" 5M

Valves Manual & Hydraulic

12" Ball Valves

2 1/16" 5M thru 4 1/16" 15M