



PATTERSON RENTAL TOOLS

4 1/2" 15.50# P-110 PH-6 Hydril Type Tubing

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

Product:	4 1/2"	
Tube Size:	4 1/2"	In.
Nominal Weight / Ft.:	15.50	Lbs./Ft.
Tube Grade:	P-110	
Connection:	PH-6	
Hard Banding/Coating:	NONE	
Tube Specifications		
Inside Diameter:	3.826"	In.
Wall Thickness:	.337"	In.
Tensile Yield New:	485,000	Lbs.
Premium:	388,000	Lbs.
PSI Burst (New / Test):	14420 / 10000	PSI
Collapse (100% / 80%):	14340 / 11472	PSI
Engineering Data:		
Drift Diameter:	3.701"	In.
Average Joint Length :	31	Feet
Displacement(Open):	0.229	Gal./Ft.
	0.545	Bbl./100 Ft.
Capacity:	0.598	Gal./Ft.
	1.424	Bbl./100 Ft.
Connection Specifications		
Outside Diameter:	5.125"	In.
Inside Diameter:	3.765"	In.
Make Up Min:	7,500	Ft-Lbs
Make Up Max:	7,500	Ft-Lbs
ID. Markings:	2 GROOVES	
Stencil Markings:	"P"	
Special Note:		

* Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Patterson Services, Inc. makes no representation about, and is not responsible or liable for the accuracy or reliability of the data, described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item. The properties listed in this document are not specification. They are provided as information only and in no way modify, amend, enlarge or create any specification or warranty.



Patterson Services, Inc.
15015 Vickery Drive
Houston, Texas 77032
Phone 281.875.4006
Fax 281.875.2030