



# PATTERSON RENTAL TOOLS

## 3 1/2" BN HWDP W/3 1/2" IF

<b>Product:</b>	<b>3 1/2" BN HWDP</b>	<b>HWP312IF</b>
<b>Tube Size:</b>	<b>3 1/2"</b>	<b>In.</b>
<b>Nominal Weight/JT</b>	<b>713</b>	<b>Lbs</b>
<b>Connection:</b>	<b>3 1/2" IF</b>	
<b>Engineering Data:</b>		
<b>Drift Diameter:</b>	<b>2</b>	<b>In.</b>
<b>Adj. Weight / Foot:</b>	<b>23.20</b>	<b>Lbs./Ft.</b>
<b>Avg Jt Length</b>	<b>30</b>	<b>Feet</b>
<b>Displacement(Open):</b>	<b>0.347</b>	<b>Gal./Ft.</b>
	<b>0.826</b>	<b>Bbl./100 Ft.</b>
<b>Capacity:</b>	<b>0.212</b>	<b>Gal./Ft.</b>
	<b>0.505</b>	<b>Bbl./100 Ft.</b>
<b>Connection Specifications</b>		
<b>Outside Diameter:</b>	<b>4 7/8"</b>	<b>In.</b>
<b>Minimum OD</b>	<b>4 19/32"</b>	<b>In.</b>
<b>Inside Diameter:</b>	<b>2 1/4"</b>	<b>In.</b>
<b>Tensile Yield New:</b>	<b>310,500</b>	<b>Lbs.</b>
<b>Torsional Strength New:</b>	<b>22,900</b>	<b>Ft/lbs.</b>
<b>Make Up Torque Min New:</b>	<b>11,500</b>	<b>Ft/lbs.</b>
<b>Make Up Torque Max New:</b>	<b>13,700</b>	<b>Ft/lbs.</b>
<b>Special Note:</b>		
<b>Minimum length Box:</b>	<b>6"</b>	
<b>Minimum length Pin:</b>	<b>6"</b>	

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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