



## CONNECTION PERFORMANCE DATA

2 7/8 in      7.90 lbs/ft      P110      BEN-HT6

Benoit's approach was to design a better version of its' legacy BTS®-6 connection and evaluate how to optimize the design based on advanced engineering and manufacturing practices. The improvements allowed for a significant increase in torque carrying capacity and connection life while maintaining compatibility with BTS®-6 and existing industry two-step connections.  
PATENT PENDING



### TUBULAR DATA

TUBE O.D.	2.875	in
TUBE I.D.	2.323	in
TUBE WALL	0.276	in
DRIFT DIA.	2.229	in
PIPE BODY CSA	2.254	in <sup>2</sup>
TENSION YLD.	247,900	lbs
COMPRESSION YLD.	247,900	lbs
INTERNAL PRESSURE YLD.	18,480	psi
COLLAPSE PRESSURE YLD.	19,090	psi
BENDING YLD.	175.0	°/100ft
TORSION YLD.	14,160	ft-lb

### CONNECTION DATA

CONNECTION O.D.	3.438	in	
CONNECTION I.D.	2.265	in	
MAKE-UP LOSS	3.050	in	
CONNECTION CSA	2.417	in <sup>2</sup>	
STRING LENGTH (1.6 S/F)	19,620	ft	
TENSION YLD.	265,900	lbs	107.00% eff
COMPRESSION YLD.	289,600	lbs	117.00% eff
INTERNAL PRESSURE YLD.	18,480	psi	
COLLAPSE PRESSURE YLD.	19,090	psi	
BENDING YLD.	175.0	°/100ft	
TORSION YLD.	11,240	ft-lb	
OPERATING TORQUE	10,030	ft-lb	

### MAKE-UP TORQUE

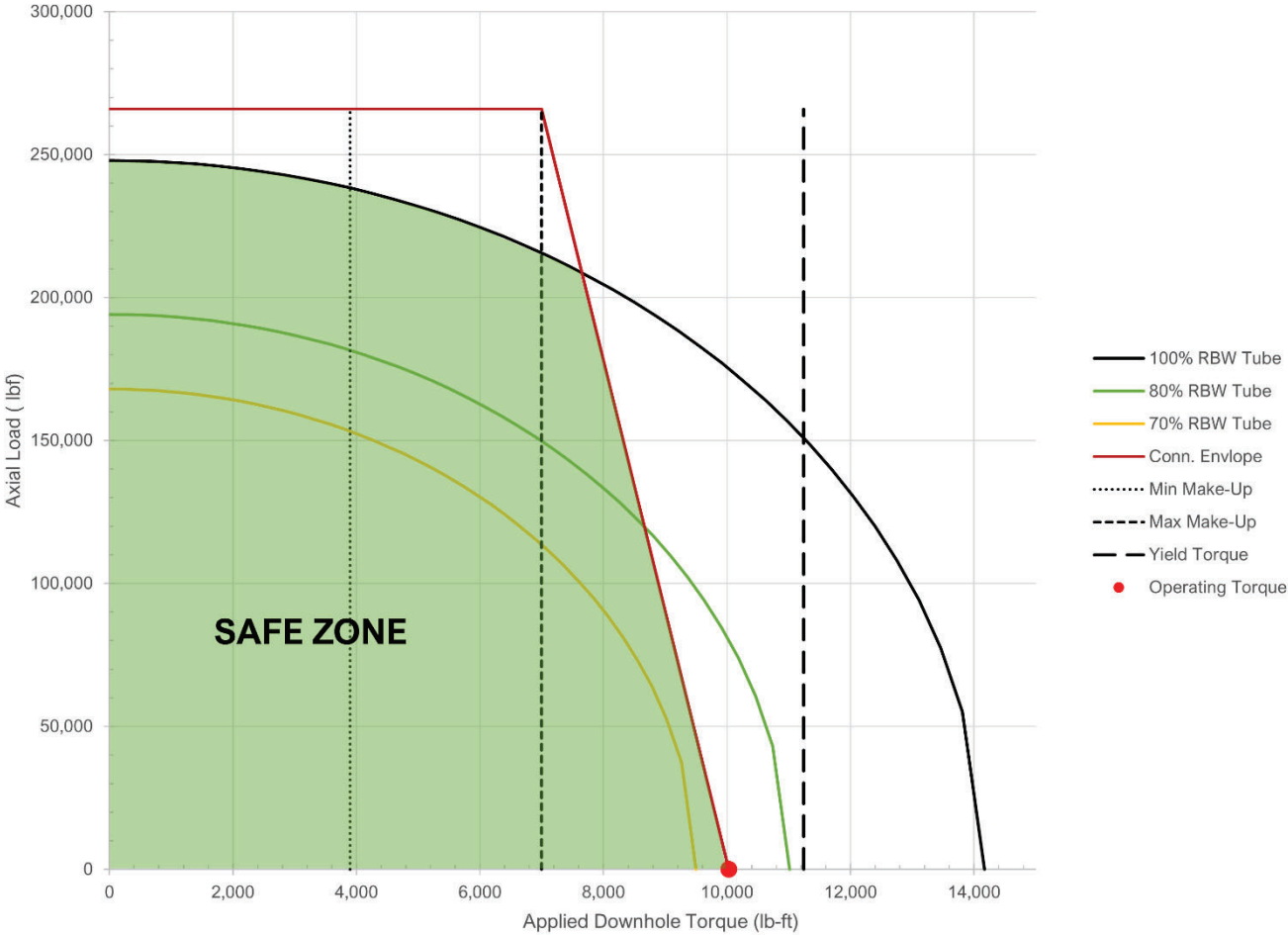
MINIMUM MAKE-UP TORQUE	3,900	ft-lb
OPTIMUM MAKE-UP TORQUE	5,450	ft-lb
MAXIMUM MAKE-UP TORQUE	7,000	ft-lb

The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by Benoit and might not be the latest information. Under no circumstances is Benoit liable for damages or loss of any kind that may result from the credibility given to this Information or its use. To verify that you have the latest Benoit technical information, please contact Benoit Technical Sales toll-free at 833-827-2488 or by email at [TechnicalSupport@localhost](mailto:TechnicalSupport@localhost).

**Torque Tension Performance Envelope**  
**2.875" 7.90# P-110 BEN-HT6 – Patent Pending**

The chart below is intended to help customers better understand the performance capabilities of the BEN-HT6 connection while applying torque to rotate downhole. The chart and the information included do not consider bending, compression, thermal effects or counter-rotation. It is the sole-responsibility of the operator to understand how those critical factors will change the data included below.

The “Safe Zone” shows the allowed Torque-Tension loads where the connection is safe to rotate at downhole after the connection was successfully assembled within the make-up torque range. The connection is allowed to rotate higher than the torque used at make-up so long as the applied torque and tension falls within the safe zone.



The performance data in this chart applies exclusively to BEN-HT6 licensed connections. Values are derived from dimensional tolerances, manufacturing specifications, and quality assurance protocols specific to the BEN-HT6 design, supported by extensive qualification and validation testing. This performance guidance does not apply to any other two-step connections which may not deliver equivalent performance. For additional information or support, please contact Benoit’s technical sales at (985) 872-9052.

REVISION HISTORY		
Date	Rev. No.	History
9/11/2025	0	ORIGINAL RELEASE