



## FuchsRohr® AluDrill350™ High Performance Pipe (HPP)

Pipe configuration   3 ½   internal upset			
Tool Joint	Tool Joint NC35		
Dimensions and weights	New	Premium	Class 2
OD nominal (in)	3.65	3.45	3.35
ID nominal (in)	2.65	2.65	2.65
ID min (in)	1.73	1.73	1.73
Wall Thickness (in)	0.50	0.40	0.35
Remaining Body Wall (%)	100	80	70
Reduction in OD (%)	0	5.5	8.2
Cross Section Area (in <sup>2</sup> )	4.95	3.83	3.30
Weight Pipe (lb)	193.0		

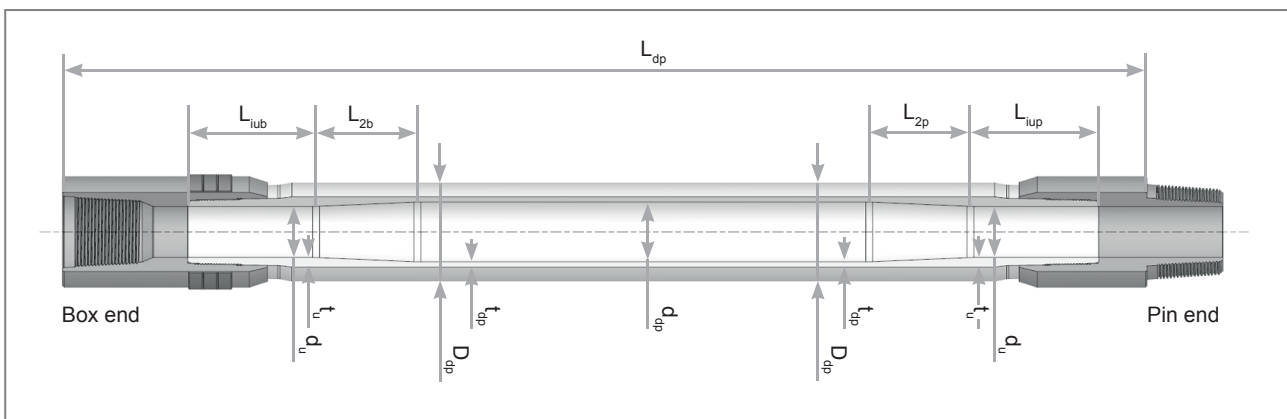
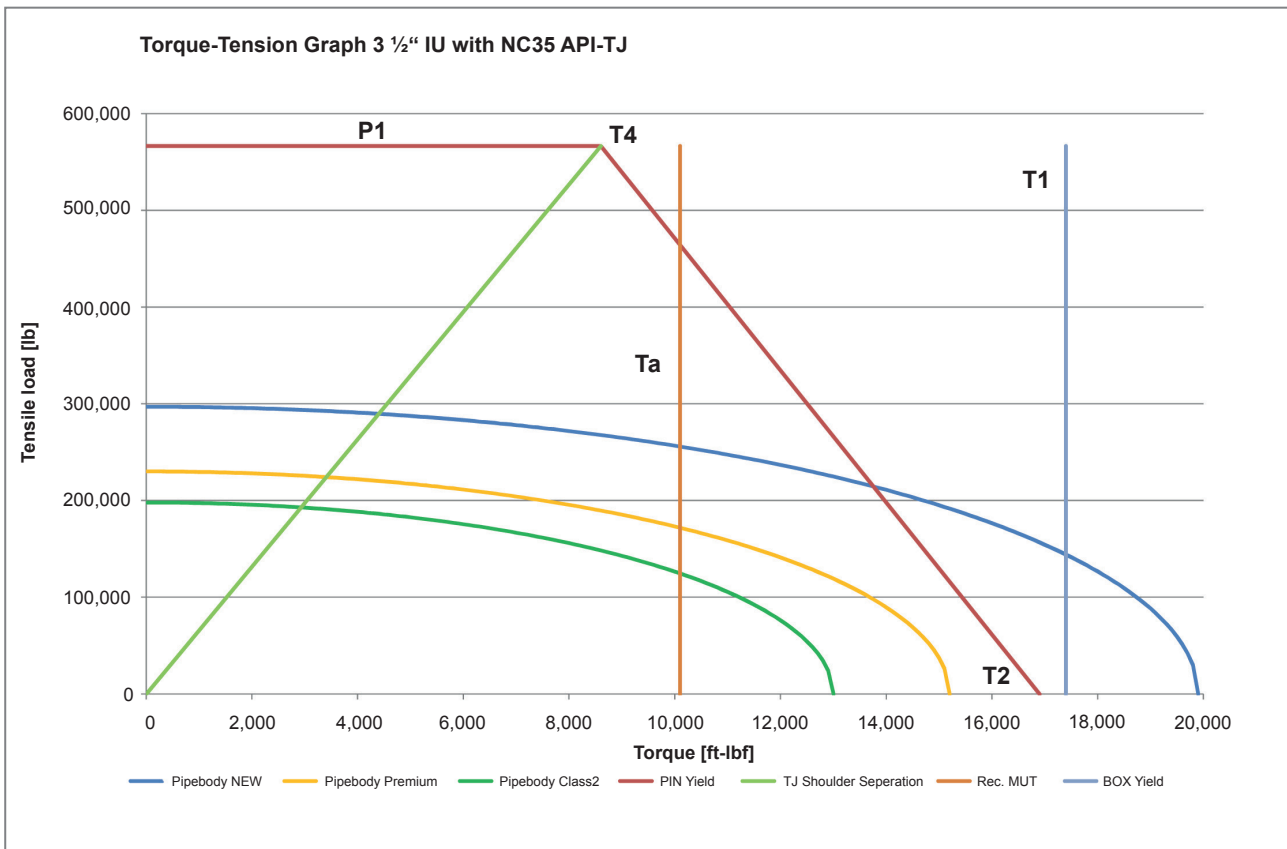
Pipe Body   Alloy HPP K60   R <sub>p0,2</sub> = 60 ksi (415 N/mm <sup>2</sup> )			
Tensile Strength (lb)	296,900	230,000	197,900
Modulus (msi)	10.60	10.60	10.60
Torsional Yield Strength (ft-lbf)	19,900	15,200	13,000
80% Torsional Yield Strength (ft-lbf)	15,920	12,160	10,400
Collapse Resistance (psi)	15,800	13,000	11,300
Internal Yield Pressure (psi)	16,400	13,900	12,500

Tool Joint	NC35
OD Tool Joint (in)	4 ½
ID Tool Joint (in)	2 5/16
Box Tong Length, L <sub>b</sub> (in)	17
PIN Tong Length, L <sub>p</sub> (in)	14
Yield Strength (ksi)	120
Weight Tool Joint (lb)	92.00
Tensile Yield Strength (lbf)	566,500
Torsional Yield Strength (ft-lbf)	16,900
Recommended Make-Up-Torque (ft-lbf)	10,100

Assembly TJ + Pipe	
Weight Tool Joint + Pipe (lb)	285
Adjusted Weight Air (lb/ft)	9.10
Adjusted Weight In 12 lb/gal mud (lb/ft)	5.40
Torsional Ratio TJ/Pipe	0.85
Shoulder To Shoulder Length (ft)	31.50
Open Displacement (US gal/ft)	0.31
Closed Displacement (US gal/ft)	0.57
Capacity (US gal/ft)	0.26



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$L_{dp}$	pipe length with tool joint (shoulder - shoulder)	378.00 in
$L_{iub}$	length of internal upset end (Box end)	32.00 in
$L_{iup}$	length of internal upset end (Pin end)	13.00 in
$L_{2b}$	length of internal upset end transition zone (Box end)	9.50 in
$L_{2p}$	length of internal upset end transition zone (Pin end)	9.50 in
$D_{dp}$	outside diameter of the pipe body	3.65 in
$d_{dp}$	inside diameter of the pipe body	2.65 in
$d_u$	minimum inside diameter of the pipe	1.73 in
$t_u$	wall thickness of upset end	0.96 in
$t_{dp}$	wall thickness of pipe body	0.50 in

