



FuchsRohr® AluDrill500™ High Performance Pipe (HPP)

Pipe configuration 5 internal upset			
Tool Joint	Tool Joint NC50		
Dimensions and weights	New	Premium	Class 2
OD nominal (in)	5.07	4.87	4.77
ID nominal (in)	4.07	4.07	4.07
ID min (in)	3.25	3.25	3.25
Wall Thickness (in)	0.50	0.40	0.35
Remaining Body Wall (%)	100	80	70
Reduction in OD (%)	0	3.9	5.9
Cross Section Area (in ²)	7.19	5.62	4.86
Weight Pipe (lb)	283.0		

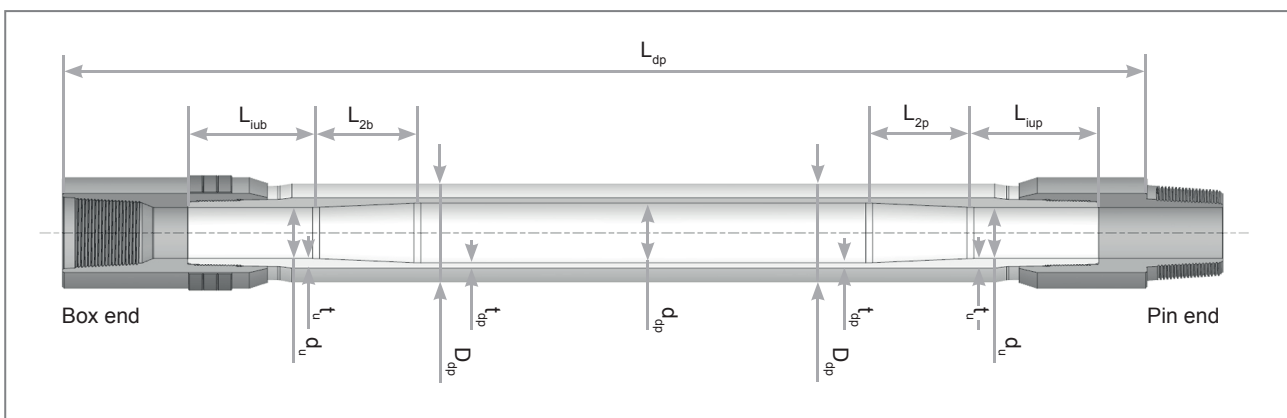
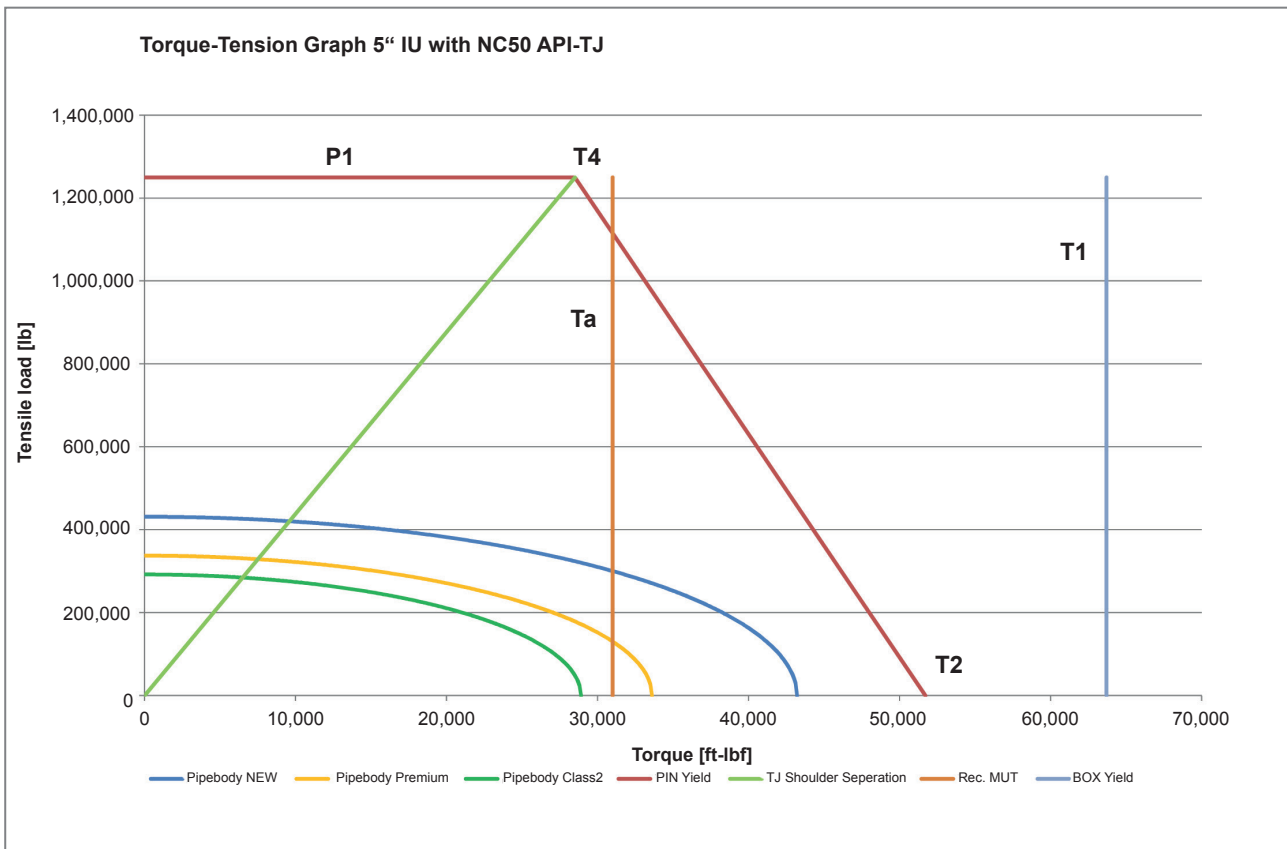
Pipe Body Alloy HPP K60 R _{p0,2} = 60 ksi (415 N/mm ²)			
Tensile Strength (lb)	431,100	337,300	291,900
Modulus (msi)	10.60	10.60	10.60
Torsional Yield Strength (ft-lbf)	43,200	33,600	28,900
80% Torsional Yield Strength (ft-lbf)	34,560	26,880	23,120
Collapse Resistance (psi)	10,400	7,800	6,400
Internal Yield Pressure (psi)	11,800	9,800	8,800

Tool Joint	NC50
OD Tool Joint (in)	6 5/8
ID Tool Joint (in)	3 1/4
Box Tong Length, L _b (in)	17
PIN Tong Length, L _p (in)	14
Yield Strength (ksi)	120
Weight Tool Joint (lb)	184.00
Tensile Yield Strength (lbf)	1,249,800
Torsional Yield Strength (ft-lbf)	51,700
Recommended Make-Up-Torque (ft-lbf)	31,000

Assembly TJ + Pipe	
Weight Tool Joint + Pipe (lb)	467
Adjusted Weight Air (lb/ft)	14.80
Adjusted Weight In 12 lb/gal mud (lb/ft)	9.20
Torsional Ratio TJ/Pipe	1.20
Shoulder To Shoulder Length (ft)	31.50
Open Displacement (US gal/ft)	0.47
Closed Displacement (US gal/ft)	1.11
Capacity (US gal/ft)	0.64



FuchsRohr® AluDrill1500™ High Performance Pipe (HPP)



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	5.07 in
d_{dp}	inside diameter of the pipe body	4.07 in
d_u	minimum inside diameter of the pipe	3.25 in
t_u	wall thickness of upset end	0.91 in
t_{dp}	wall thickness of pipe body	0.50 in

