



FuchsRohr® AluDrill578™ High Performance Pipe (HPP)

Pipe configuration 5 7/8" internal upset			
Tool Joint	Tool Joint 5.5 FH		
Dimensions and weights	New	Premium	Class 2
OD nominal (in)	5.88	5.67	5.57
ID nominal (in)	4.85	4.85	4.85
ID min (in)	4.27	4.27	4.27
Wall Thickness (in)	0.51	0.41	0.36
Remaining Body Wall (%)	100	80	70
Reduction in OD (%)	0	3.5	5.2
Cross Section Area (in ²)	8.64	6.78	5.88
Weight Pipe (lb)	331.0		

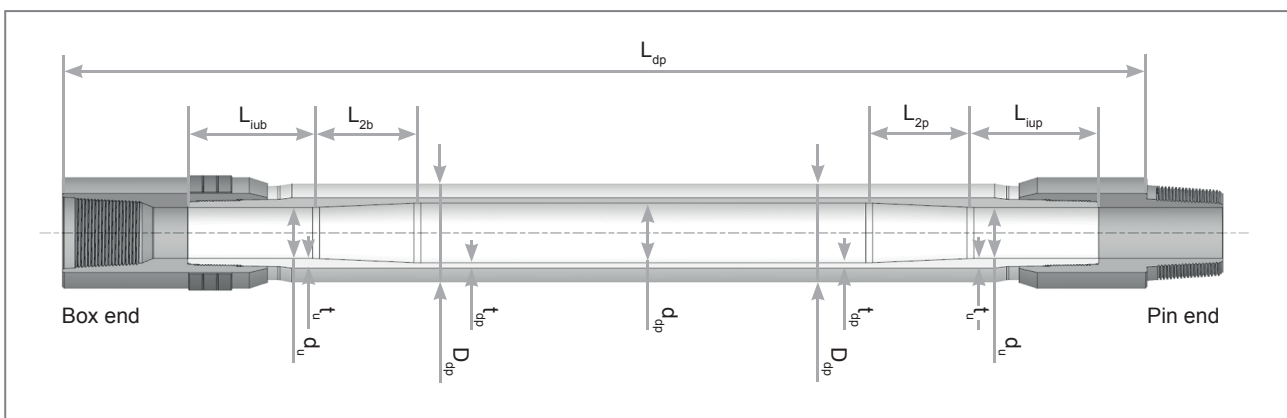
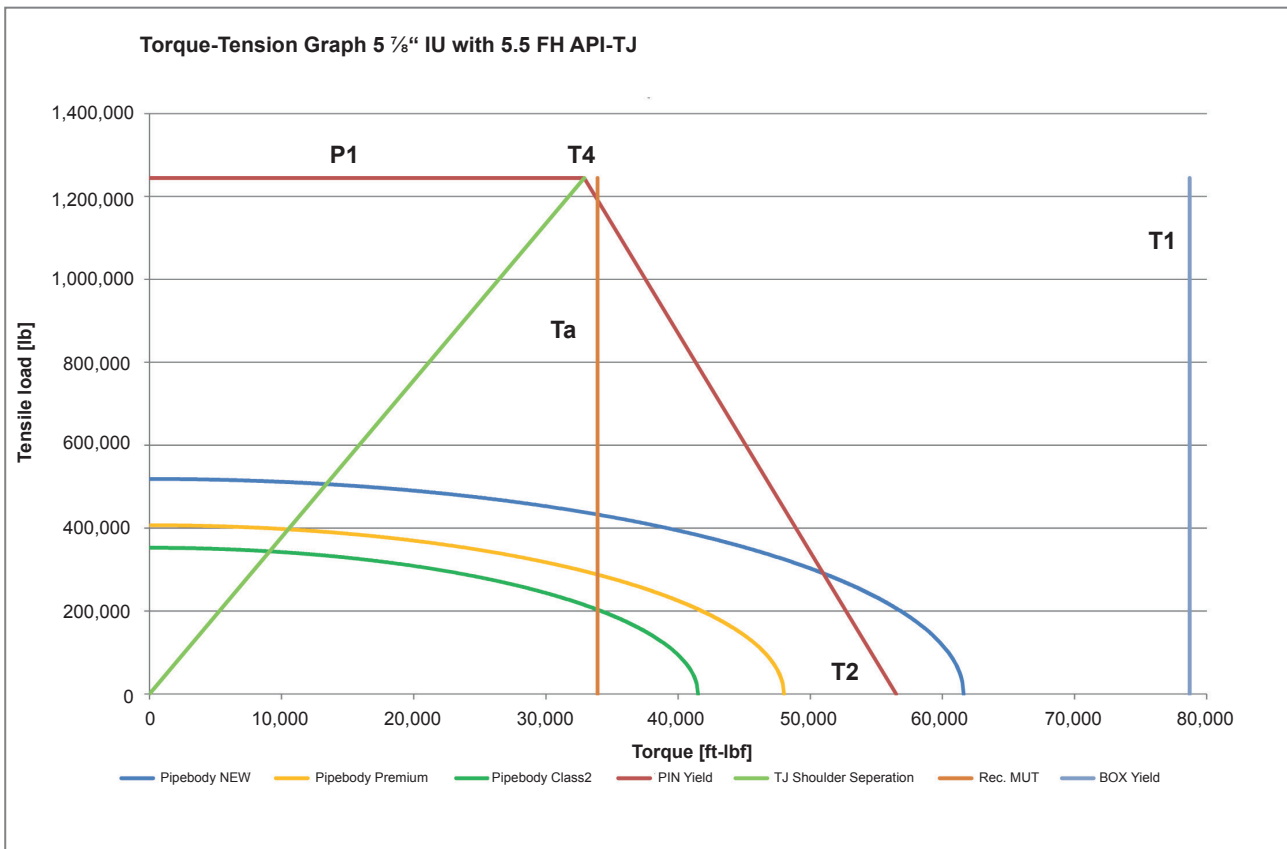
Pipe Body Alloy HPP K60 R _{p0,2} = 60 ksi (415 N/mm ²)			
Tensile Strength (lb)	518,500	406,900	352,500
Modulus (msi)	10.60	10.60	10.60
Torsional Yield Strength (ft-lbf)	61,600	48,000	41,500
80% Torsional Yield Strength (ft-lbf)	49,280	38,400	33,200
Collapse Resistance (psi)	8,700	6,200	4,800
Internal Yield Pressure (psi)	10,500	8,700	7,700

Tool Joint	5.5 FH
OD Tool Joint (in)	7 1/4
ID Tool Joint (in)	4
Box Tong Length, L _b (in)	17
PIN Tong Length, L _p (in)	14
Yield Strength (ksi)	120
Weight Tool Joint (lb)	192.00
Tensile Yield Strength (lbf)	1,244,500
Torsional Yield Strength (ft-lbf)	56,500
Recommended Make-Up-Torque (ft-lbf)	33,900

Assembly TJ + Pipe	
Weight Tool Joint + Pipe (lb)	523
Adjusted Weight Air (lb/ft)	16.60
Adjusted Weight In 12 lb/gal mud (lb/ft)	10.10
Torsional Ratio TJ/Pipe	0.92
Shoulder To Shoulder Length (ft)	31.50
Open Displacement (US gal/ft)	0.54
Closed Displacement (US gal/ft)	1.47
Capacity (US gal/ft)	0.93



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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	5.88 in
d_{dp}	inside diameter of the pipe body	4.85 in
d_u	minimum inside diameter of the pipe	4.27 in
t_u	wall thickness of upset end	0.80 in
t_{dp}	wall thickness of pipe body	0.51 in

