

DESIGN SPECIFICATIONS - NPS 30

<u>Description</u>	<u>Line Pipe</u>	<u>Units</u>
External Diameter	762	mm
Wall Thickness	12.7	mm
Grade	448	MPa
Specification	CSA Z245.1-14	
Material Toughness	CSA Z245.1-14	
Pipe Coating Specifications	CSA Z245.20	
Cathodic Protection	CGA OCC-1	
Coating	Double Fusion Bond Epoxy	
Class Location	4	
Design Pressure	4,500	kPa
Hoop Stress at Design Pressure	30% SMYS*	
Maximum Operating Pressure (MOP)	3,309	kPa
Hoop Stress at MOP	22% SMYS*	
Minimum Cover	1.2	m
Fittings	CSA Z245.15 -17	
Flanges	CSA Z245.15 -17	
Valves	CSA Z245.15 -17	
Strength Test: Test Medium	Water	
Strength Test Hydrostatic Pressure	14,186	kPa
Hoop Stress at Strength Test Pressure	95% SMYS*	
Leak Test: Test Medium	Nitrogen	
Leak Test Pneumatic Pressure	4,700	kPa
Hoop Stress at Leak Test Pressure	31.5% SMYS*	

* SMYS – Specified Minimum Yield Strength