

## OG™ PREMIUM FLUSH 4.5in. x 13.5 lb/ft HC-P110



### Pipe Body

Nominal OD	4.500	inches
Nominal Weight	13.50	lb/ft
Wall Thickness	0.290	inches
Plain End Weight	13.04	lb/ft
Standard Drift	3.795	inches
Nominal ID	3.920	inches
Grade	HC-P110	
Min Yield	110,000	lb/in <sup>2</sup>
Min Tensile	125,000	lb/in <sup>2</sup>
Critical Section Area	3.836	in <sup>2</sup>
Pipe Body Yield Strength	422	kips
Min Internal Yield Pressure	12,410	psi
Collapse Pressure	12,290	psi

### Connection

Connection OD	4.500	inches
Connection ID	3.883	inches
Make Up Loss	5.834	inches
Critical Section Area	2.416	in <sup>2</sup>
Internal / External Pressure Rating	100% of Pipe	
Internal Pressure	12,410	
External Pressure	12,290	
Tension Efficiency	63%	266 kips
Compression Efficiency	63%	266 kips
Uniaxial Bend Rating	71	° / 100 ft
Optimal Make Up Torque	3,200	ft-lbs
Min	2,880	ft-lbs
Max	3,520	ft-lbs

v1.0

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The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects.



## Torque Data Sheet - OG™ PREMIUM FLUSH



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Min Make Up Torque	2,880	ft-lbs	Nom Shoulder Torque	1,200	ft-lbs
Max Make Up Torque	3,520	ft-lbs			
Optimum Torque	3,200	ft-lbs			

