

Version number:REV.02

| OD | Weight | Wall Th | Grade | API Drift | Connection |
|---------|------------|---------|-------|-----------|------------|
| 4.500in | 12.60lb/ft | 0.271in | P110 | 3.833in | CBS3 |

| PIPE BODY PROPERTIES | |
|-----------------------------------|-------------|
| Nominal OD | 4.500 in |
| Nominal ID | 3.958 in |
| Nominal Wall Thickness | 0.271 in |
| Minimum Wall Thickness | 87.5 % |
| Nominal Weight(API) | 12.60 lb/ft |
| Plain End Weight | 12.25 lb/ft |
| Drift | 3.833 in |
| Grade Type | API 5CT |
| Minimum Yield Strength | 110 ksi |
| Maximum Yield Strength | 140 ksi |
| Minimum Ultimate Tensile Strength | 125 ksi |
| Pipe Body Yield Strength | 396 klb |
| Internal Yield Strength | 11,580 psi |
| Collapse Pressure | 9,200 psi |

| CONNECTION PROPERTIES | |
|------------------------------|------------------------|
| Connection Type | Premium Thread&Coupled |
| Nominal Connection OD | 4.968 in |
| Nominal Connection ID | 3.913 in |
| Make-up Loss | 3.419 in |
| Coupling Length | 7.953 in |
| Tension Efficiency | 100% of Pipe Body |
| Compression Efficiency | 100% of Pipe Body |
| Internal Pressure Efficiency | 100% of Pipe Body |
| External Pressure Efficiency | 100% of Pipe Body |

| JOINT PERFORMANCES | |
|-------------------------------|-------------|
| Tensile Strength | 396 klb |
| Compression Strength | 396 klb |
| Internal Pressure Resistance | 11,580 psi |
| External Pressure Resistance | 9,200 psi |
| Maximum Bending | 30 °/100 ft |
| Maximum Load on Coupling Face | 272 klb |

| FIELD TORQUE VALUES | |
|----------------------|-------------|
| Min. Make-up torque | 4,720 ft-lb |
| Opti. Make-up torque | 5,230 ft-lb |
| Max. Make-up torque | 5,750 ft-lb |
| Min. Shoulder torque | 260 ft-lb |
| Max. Shoulder torque | 4,190 ft-lb |
| Min. Delta Turn | 0.010 turns |
| Max. Delta Turn | 0.120 turns |

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