

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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