Certified Oilfield Rentals
TECHNICAL SPECIFICATIONS

COR HANDLED TUBULARS
DRILLPIPE
# Certified Oilfield Rentals – Drillpipe Specifications

Middle East – Far East – Africa – Australia

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## 6-5/8” OD, S-135, 27.7 lb./ft

<table>
<thead>
<tr>
<th><strong>PIPE:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Mannesmann</td>
</tr>
<tr>
<td>Pipe OD/ID</td>
<td>6.625” x 5.900”</td>
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<tr>
<td>Grade &amp; Range</td>
<td>S-135, range 2</td>
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<tr>
<td>Weight &amp; Upset</td>
<td>27.72 lb./ft, IEU</td>
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<tr>
<td>Wall Thickness</td>
<td>0.362”</td>
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<tr>
<td>Section Area body of Pipe</td>
<td>7.1226 sq. in</td>
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<tr>
<td>Polar Section Modulus</td>
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<tr>
<td>Collapse Pressure</td>
<td>4,611 psi (Premium)</td>
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<tr>
<td>Internal Yield Pressure</td>
<td>11,802 psi (Premium)</td>
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<tr>
<td>Tensile Yield</td>
<td>760,352 lb. (Premium)</td>
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<tr>
<td>Torsional Yield</td>
<td>108,343 ft/lb. (Premium)</td>
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<tr>
<td>Ave Length per Joint</td>
<td>31.35 ft</td>
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<tr>
<td>Internal Plastic Coating</td>
<td>TK-34</td>
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<table>
<thead>
<tr>
<th><strong>TOOL JOINTS:</strong></th>
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<tbody>
<tr>
<td>Tool Joint OD/ID</td>
<td>8” x 5”</td>
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<tr>
<td>Tool Joint Length</td>
<td>10” Pin x 11” Box</td>
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<tr>
<td>Connection</td>
<td>6-5/8” FH</td>
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<tr>
<td>Hardfacing</td>
<td>Arnco 200XT</td>
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<tr>
<td>Tensile Yield</td>
<td>1,448,405 lb. (New)</td>
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<tr>
<td>Torsional Yield</td>
<td>73,660 ft/lb. (New)</td>
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<tr>
<td>Optimum Make Up Torque</td>
<td>36,830 ft/lb. (New)</td>
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<tr>
<td>Max Make Up Torque</td>
<td>44,200 ft/lb. (New)</td>
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<tr>
<td>Drift Diameter</td>
<td>4.875</td>
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</tbody>
</table>

Saga/Hydro/Statoil spec. 50-030
6-5/8” OD, S-135, 25.2 lb./ft

PIPE (Premium):
Manufacturer: Grant Prideco
Pipe OD/ID: 6.625” x 5.965”
Grade & Range: S-135, range 2
Nominal Weight & Upset: 25.20 lb./ft, IEU
Adjusted Weight: 27.15 lbs./ft
Wall Thickness: 0.330”
Section Area body of Pipe: 6.526 sq. in (new)
Polar Section Modulus: 9.786 cu in (new)
Collapse Pressure: 3,429 psi (Premium)
Internal Yield Pressure: 10,759 psi (Premium)
Tensile Yield: 697,438 lb. (Premium)
Torsional Yield: 100,379 ft/lb. (Premium)
Ave Length per Joint: 31.35 ft
Internal Plastic Coating: TK-34

TOOL JOINTS:
Tool Joint OD/ID: 8” x 5”
Tool Joint Length: 10” Pin x 11” Box
Connection: 6-5/8” FH
Hardfacing: Arnco 200XT
Tensile Yield: 1,448,416 lb. (New)
Torsional Yield: 73,661 ft/lb. (New)
Optimum Make Up Torque: 36,830 ft/lb. (New)
Max Make Up Torque: 44,200 ft/lb. (New)
Drift Diameter: 4.875
### 5-7/8” OD, S-135, 26.30 lb./ft

**PIPE (Premium):**
- **Manufacturer:** Grant Prideco
- **Pipe OD/ID:** 5.7/8”
- **Grade & Range:** S-135, range 2
- **Nominal Weight & Upset:** 26.30 lb./ft, IEU
- **Wall Thickness:** 0.415”
- **Section Area body of Pipe:** 9.083 sq. in (new)
- **Collapse Pressure:** 9,368 psi (Premium)
- **Internal Yield Pressure:** 15,258 psi (Premium)
- **Tensile Yield:** 757,100 lb. (Premium)
- **Torsional Yield:** 74,000 ft/lb. (Premium)
- **Ave Length per Joint:** 31.00 ft
- **Internal Plastic Coating:** TK-34

**TOOL JOINTS:**
- **Tool Joint OD/ID:** 7” x 4-1/4”
- **Connection:** XT-57
- **Hardfacing:** Tuboscope TCS Titanium 3/32”
- **Tensile Yield:** 1,208,700 lb. (New)
- **Torsional Yield:** 94,300 ft/lb. (New)
- **Optimum Make Up Torque:** 56,600 ft/lb. (New)
- **Max Make Up Torque:** 33,800 ft/lb. (New)
- **Drift Diameter:** 4.125”
5-1/2” OD, S-135, 24.70 lbs./ft, 5-1/2” FH-DSTJ

**PIPE:**
- Manufacturer: NKK
- Pipe OD/ID: 5.5” x 4.670”
- Grade & Range: S-135, range 2
- Weight & Upset: 24.70 lb./ft, IEU
- Wall Thickness: 0.415”
- Section Area body of Pipe: 6.629 sq. in
- Polar Section Modulus: 7.844 cu in
- Collapse Pressure: 17,023 psi (New)
- Internal Yield Pressure: 17,826 psi (New)
- Tensile Yield: 894,999 lb. (New)
- Torsional Yield: 101,833 ft/lb. (New)
- Ave Length per Joint: 31.6 ft

**TOOL JOINTS:**
- Tool Joint OD/ID: 7” x 4”
- Tool Joint Length: 10” Pin x 12” Box
- Connection: 5-1/2” FH DSTJ High Torque
- Hardfacing: Arno 300XT
- Tensile Yield: 1,371,300 lb. (New)
- Torsional Yield: 75,020 ft/lb. (New)
- Minimum Make Up Torque: 33,200 ft/lb
- Optimum Make Up Torque: 41,500 ft/lb.
- Maximum Make Up Torque: 52,500 ft/lb
- Drift Diameter: 3.875”
5-1/2” OD, G-105, 24.70 lbs./ft, 5-1/2” NKK-DSTJ

**PIPE:**
- Manufacturer: NKK
- Pipe OD/ID: 5.5” x 4.670”
- Grade & Range: G-105, range 2
- Weight & Upset: 24.70 lb./ft, IEU
- Wall Thickness: 0.415”
- Section Area body of Pipe: 6.629 sq. in
- Polar Section Modulus: 7.844 cu in
- Collapse Pressure: 14,013 psi (New)
- Internal Yield Pressure: 13,865 psi (New)
- Tensile Yield: 696,111 lb. (New)
- Torsional Yield: 79,204 ft/lb. (New)
- Ave Length per Joint: 31.6 ft

**TOOL JOINTS:**
- Tool Joint OD/ID: 7” x 4”
- Tool Joint Length: 10” Pin x 12” Box
- Connection: 5-1/2” NKK-DSTJ
- Hardfacing: Tuboscope TCS Ti
- Tensile Yield: 1,371,300 lb. (New)
- Torsional Yield: 75,020 ft/lb. (New)
- Minimum Make Up Torque: 33,200 ft/lb
- Optimum Make Up Torque: 41,500 ft/lb.
- Maximum Make Up Torque: 52,500 ft/lb.
- Drift Diameter: 3.875”
## 5-1/2” OD, G-105, 24.70 lbs./ft, 5-1/2” Tuff Torque

### PIPE:
- Manufacturer: OMSCO
- Pipe OD/ID: 5.5” x 4.670”
- Grade & Range: G-105, range 2
- Weight & Upset: 24.70 lb./ft, IEU
- Wall Thickness: 0.415”
- Section Area body of Pipe: 6.629 sq. in
- Polar Section Modulus: 7.844 cu in
- Collapse Pressure: 14,013 psi (New)
- Internal Yield Pressure: 13,865 psi (New)
- Tensile Yield: 696,111 lb. (New)
- Torsional Yield: 79,204 ft/lb. (New)
- Ave Length per Joint: 31.6 ft

### TOOL JOINTS:
- Tool Joint OD/ID: 7” x 4”
- Tool Joint Length: 10” Pin x 12” Box
- Connection: 5-1/2” Omsco Tuff Torque
- Hardfacing: Arnco 100XT
- Tensile Yield: 1,371,300 lb. (New)
- Torsional Yield: 75,020 ft/lb. (New)
- Minimum Make Up Torque: 33,200 ft/lb
- Optimum Make Up Torque: 41,500 ft/lb.
- Maximum Make Up Torque: 52,500 ft/lb.
- Drift Diameter: 3.875”
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**5-1/2” OD, S-135, 21.90 lbs/ft, Hydril WT-56**

**PIPE:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Mannesmann</td>
</tr>
<tr>
<td>Pipe OD/ID</td>
<td>5.5” x 4.778”</td>
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<tr>
<td>Grade &amp; Range</td>
<td>S-135, range 2</td>
</tr>
<tr>
<td>Weight &amp; Upset</td>
<td>21.9 lb./ft, IEU</td>
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<tr>
<td>Wall Thickness</td>
<td>0.361”</td>
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<tr>
<td>Section Area body of Pipe</td>
<td>5.8282 sq. in</td>
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<tr>
<td>Polar Section Modulus</td>
<td>14.062 cu in</td>
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<tr>
<td>Collapse Pressure</td>
<td>7,496 psi (Premium)</td>
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<tr>
<td>Internal Yield Pressure</td>
<td>14,177 psi (Premium)</td>
</tr>
<tr>
<td>Tensile Yield</td>
<td>620,604 lb. (Premium)</td>
</tr>
<tr>
<td>Torsional Yield</td>
<td>71,754 ft/lb. (Premium)</td>
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<tr>
<td>Ave Length per Joint</td>
<td>31.5 ft</td>
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<tr>
<td>Internal Plastic Coating</td>
<td>TK-34</td>
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**TOOL JOINTS:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Tool Joint OD/ID</td>
<td>7” x 4-1/2”</td>
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<tr>
<td>Tool Joint Length</td>
<td>10” Pin x 15” Box</td>
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<tr>
<td>Connection</td>
<td>Hydril WT-56</td>
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<tr>
<td>Hardfacing</td>
<td>Arnco 200XT on Box Tool Joints</td>
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<tr>
<td>Tensile Yield</td>
<td>1,473,000 lb. (New)</td>
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<tr>
<td>Torsional Yield</td>
<td>126,000 ft/lb. (New)</td>
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<tr>
<td>Min Make Up Torque</td>
<td>20,000 ft/lb. (New)</td>
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<tr>
<td>Recommended Make Up Torque</td>
<td>*24,000 ft/lb.</td>
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<tr>
<td>Max Make Up Torque</td>
<td>99,000 ft/lb.</td>
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<tr>
<td>Drift Diameter</td>
<td>4.375”</td>
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</tbody>
</table>

Pipe manufactured according to API Spec 5D, Group 3 in connection with Statoil Spec. KP10-K300, plus Tool Joints configuration as per Hydril Spec.

* Since additional torque does not produce additional tensile stress in the pin, downhole make-up will not create excessive stress in the tool joint. For this reason, using a lower make-up torque while tolerating subsequent downhole make-up is recommended.
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**5-1/2” OD, S-135, 21.90 lbs/ft, Grant HT-55-375**

**PIPE:**
- Manufacturer: Grant Prideco
- Pipe OD/ID: 5.5” x 4.778”
- Grade & Range: S-135, range 2
- Weight & Upset: 21.9 lb./ft, IEU
- Wall Thickness: 0.361”
- Section Area body of Pipe: 5.8282 sq. in
- Polar Section Modulus: 14.062 cu in
- Collapse Pressure: 7,496 psi (Premium)
- Internal Yield Pressure: 14,177 psi (Premium)
- Tensile Yield: 620,604 lb. (Premium)
- Torsional Yield: 71,754 ft/lb. (Premium)
- Ave Length per Joint: 31.5 ft
- Internal Plastic Coating: TK-34

**TOOL JOINTS:**
- Tool Joint OD/ID: 7” x 3-7/8”
- Tool Joint Length: 10” Pin x 15” Box
- Connection: Grant HT55-375
- Hardfacing: ARNCO 200XT on Box Tool Joints
- Tensile Yield: 1,358,600 lb. (new)
- Torsional Yield: 84,600 ft/lb. (new)
- Min Make Up Torque: 35,900 ft/lb.
- Max Make Up Torque: 50,700 ft/lb.
- Drift Diameter: 3.750”
- Capacity: 11.29 ltr./mtr
- Open End Displacement: 4.79 ltr./mtr
- Closed End Displacement: 16.08 ltr./mtr

Pipe is manufactured to Norsok specification M-CR-702, plus Grant Prideco spec. for High Torque configuration.
5-1/2” OD, S-135, 21.90 lbs/ft, 5-1/2” FH-DSTJ

PIPE:
Manufacturer : NKK
Pipe OD/ID : 5.5” x 4.778”
Grade & Range : S-135, range 2
Weight & Upset : 21.9 lb./ft, IEU
Wall Thickness : 0.361”
Section Area body of Pipe : 5.8282 sq. in
Polar Section Modulus : 14.062 cu in
Collapse Pressure : 7,496 psi  (Premium)
Internal Yield Pressure : 14,177 psi  (Premium)
Tensile Yield : 620,604 lb. (Premium)
Torsional Yield : 71,754 ft/lb. (Premium)
Ave Length per Joint : 31.6 ft

TOOL JOINTS:
Tool Joint OD/ID : 7” x 3-1/2”
Tool Joint Length : 10” Pin x 12” Box
Connection : 5-1/2” FH DSTJ High Torque
Hardfacing : Arnco 100XT
Tensile Yield : 1,758,800 lb.(New)
Torsional Yield : 80,980 ft/lb.(New)
Min Make Up Torque : 33,200 ft/lb.
Optimum Make Up Torque : 46,560 ft/lb.
Max Make Up Torque : 73,500 ft/lb.
Drift Diameter : 3.375”
5-1/2” OD, S-135, 21.90 lbs./ft, 5-1/2” FH-DSTJ

**PIPE:**
- Manufacturer: NKK
- Pipe OD/ID: 5.5” x 4.778”
- Grade & Range: S-135, range 2
- Weight & Upset: 21.9 lb./ft, IEU
- Wall Thickness: 0.361”
- Section Area body of Pipe: 5.8282 sq. in
- Polar Section Modulus: 14.062 cu in
- Collapse Pressure: 12,679 psi (New)
- Internal Yield Pressure: 15,507 psi (New)
- Tensile Yield: 786,809 lb. (New)
- Torsional Yield: 91,278 ft/lb. (New)
- Ave Length per Joint: 31.6 ft

**TOOL JOINTS:**
- Tool Joint OD/ID: 7” x 4”
- Tool Joint Length: 10” Pin x 12” Box
- Connection: 5-1/2” FH DSTJ High Torque
- Hardfacing: Arnco 100XT
- Tensile Yield: 1,371,300 lb. (New)
- Torsional Yield: 75,020 ft/lb. (New)
- Minimum Make Up Torque: 33,200 ft/lb
- Optimum Make Up Torque: 41,500 ft/lb.
- Maximum Make Up Torque: 52,500 ft/lb
- Drift Diameter: 3.875”
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### 5-1/2” OD, G-105, 21.90 lbs./ft, 5-1/2” FH-DSTJ

**PIPE:**
- **Manufacturer:** NKK
- **Pipe OD/ID:** 5.5” x 4.778”
- **Grade & Range:** G-105, range 2
- **Weight & Upset:** 21.9 lb./ft, IEU
- **Wall Thickness:** 0.361”
- **Section Area body of Pipe:** 5.8282 sq. in
- **Polar Section Modulus:** 14.062 cu in
- **Collapse Pressure:** 10,753 psi (New)
- **Internal Yield Pressure:** 12,061 psi (New)
- **Tensile Yield:** 611,963 lb. (New)
- **Torsional Yield:** 70,994 ft/lb. (New)
- **Ave Length per Joint:** 31.6 ft

**TOOL JOINTS:**
- **Tool Joint OD/ID:** 7” x 4”
- **Tool Joint Length:** 10” Pin x 12” Box
- **Connection:** 5-1/2” FH DSTJ High Torque
- **Hardfacing:** Arnco 100XT
- **Tensile Yield:** 1,371,300 lb. (New)
- **Torsional Yield:** 75,020 ft/lb. (New)
- **Minimum Make Up Torque:** 33,200 ft/lb
- **Optimum Make Up Torque:** 41,500 ft/lb.
- **Maximum Make Up Torque:** 52,500 ft/lb.
- **Drift Diameter:** 3.875”
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Middle East – Far East – Africa – Australia


#### 5” OD, C-120, 25.6 lbs/ft

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<th>Value</th>
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<tr>
<td>Grade</td>
<td>C-120 NKK Sour Service</td>
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<tr>
<td>Weight</td>
<td>25.6 lb./ft (Actual 27.8 lb./ft)</td>
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<tr>
<td>Tensile</td>
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<tr>
<td>Collapse</td>
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<td>Burst</td>
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<td>Tool Joint</td>
<td>18° Taper</td>
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<td>Tool Joint ID</td>
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<tr>
<td>Total Displacement</td>
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<td>0.016 BBLS Per Linear Foot</td>
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<td>Upsets Per Pair</td>
<td>7.86 Per Gallon</td>
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<td>Tool Joints</td>
<td>.66 Per Gallon</td>
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</tbody>
</table>
5” OD, S-135, 25.6 lbs/ft

**PIPE**
- Manufacturer: NKK
- Size: 5”
- Grade: S-135
- Weight: 25.6 lb./ft (Actual 27.8 lb./ft)
- Tensile: 746,443 lbs (Premium)
- Collapse: 20,510 psi (premium)
- Burst: 21,600 psi (premium)
- Torsional Strength: 72,979 ft/lbs (premium)

**TOOL JOINTS**
- Connections: 4-1/2” IF (NC-50)
- Tool Joint: 18° Taper
- Tool Joint OD: 6-5/8”
- Tool Joint ID: 2-3/4”
- Pipe ID: 4.000”
- Wall Thickness: 0.500”
- Drift Diameter: 2.625”
- Yield Pipe: 850,000 lbs
- Torsional Strength: 63,400 ft/lbs
- Make Up Torque: 38,034 ft/lbs
- Internal Coating: Tubescope TK34 Plastic Coating
- Hardbanding: Smooth Type X Hardbanding on Box Tool Joints
5” OD, S-135, 19.5 lb./ft, Hydril WT-50

PIPE:
Pipe OD/ID/Wall Thickness : 5” x 4.276” x 0.362”
Manufacturer : Mannesmann
Grade & Range : S-135, Range II
Weight / Upset : 19.5 lb./ft / IEU
Section area body of pipe : 5.2746 sq. in.
Polar Section Modulus : 11.415 cu in.
Tensile Yield : 560,764 lb. (Premium)
Collapse Pressure : 10,029 psi (Premium)
Internal Yield Pressure : 15,638 psi (Premium)
Torsional Yield : 58,113 ft/lb. (Premium)
Internal Plastic Coating : TK-34
Average Length Per Joint : 31.3 ft
Quantity : 15,300 ft

TOOL JOINTS:
Tool Joint OD/ID : 6-5/8” x 3-5/8”
Tool Joint Tong Space : 10” Pin x 15” Box
Connection : Hydril WT-50
Hard Facing : ARNCO 200XT On Box Tool Joints.
Tensile Yield : 1,710,000 lb. (New)
Torsional Yield : 110,000 ft/lb. (New)
Recommended Make-Up Torque : 45,000 ft/lb.
Maximum Make-Up Torque : 86,000 ft/lb.
Drift Diameter : 3-1/2”
Capacity : 8.96 lt./mtr
Open End Displacement : 4.47 lt./mtr
Closed End Displacement : 13.43 lt./mtr

*Since additional torque does not produce additional tensile stress in the pin, downhole make-up will not create excessive stress in the tool joint. For this reason, using a lower make-up torque can be considered if subsequent downhole make-up torque is acceptable.

Pipe is manufactured to API specs and Statoil Spec. KP10-K300, and Hydril spec for tool joint configuration and threads.
## 5”OD, S-135, 19.5 lb./ft

### PIPE
- **Pipe OD/ID/Wall Thickness**: 5” x 4.276” x 0.362”
- **Manufacturer**: Mannesmann
- **Grade & Range**: S-135, Range II
- **Weight / Upset**: 19.5 lb./ft / IEU
- **Section area body of pipe**: 5.2746 sq. in.
- **Polar Section Modulus**: 11.415 cu in.
- **Tensile Yield**: 560,764 lbs (premium)
- **Collapse Pressure**: 10,029 psi (premium)
- **Internal Yield Pressure**: 15,638 psi (premium)
- **Torsional Yield**: 58,113 ft/lb.(premium)
- **Internal Plastic Coating**: TK-34
- **Average Length Per Joint**: 31.3 ft

### TOOL JOINTS:
- **Tool Joint OD/ID**: 6-5/8” x 3-1/4”
- **Tool Joint Tong Space**: In Accordance with DSI Category 4
- **Connection**: NC 50 Pin x Box
- **Hard Facing**: None
- **Tensile Yield**: 750,000 lbs (premium)
- **Torsional Yield**: 47,280 ft/lbs (premium)
- **Recommended Make-Up Torque**: 28,370 ft/lbs
- **Drift Diameter**: 3.125”

- **Capacity**: 8.96 lt./mtr
- **Open End Displacement**: 4.47 lt./mtr
- **Closed End Displacement**: 13.43 lt./mtr
## 5" OD, G-105, 19.5 lb./ft

### PIPE:
- **Pipe OD/ID/Wall Thickness**: 5" x 4.276" x 0.362"
- **Manufacturer**: Grant Prideco
- **Grade & Range**: G-105, Range II
- **Weight / Upset**: 19.5 lb./ft / IEU
- **Section area body of pipe**: 5.2746 sq. in.
- **Polar Section Modulus**: 11.415 cu in.
- **Tensile Yield**: 436,150 lbs (premium)
- **Collapse Pressure**: 8,765 psi (premium)
- **Internal Yield Pressure**: 12,163 psi (premium)
- **Torsional Yield**: 45,199 ft/lb (premium)
- **Internal Plastic Coating**: None
- **Average Length Per Joint**: 31.3 ft

### TOOL JOINTS:
- **Tool Joint OD/ID**: 6-3/8" x 3-1/4"
- **Tool Joint Tong Space**: In Accordance with DSI Category 4
- **Connection**: NC 50 Pin x Box
- **Hard Facing**: ARNCO 200XT
- **Tensile Yield**: 750,000 lbs (premium)
- **Torsional Yield**: 47,280 ft/lbs (premium)
- **Recommended Make-Up Torque**: +/- 21,920 ft/lbs
- **Drift Diameter**: 3.125"

- **Capacity**: 8.96 lt./mtr
- **Open End Displacement**: 4.47 lt./mtr
- **Closed End Displacement**: 13.43 lt./mtr
4” OD, S-135, 14.0 lb./ft Grant XT-39

PIPE:
Pipe OD/ID : 4.000” x 3.340”
Grade & Range : S-135, Range 2
Weight & Upset : 14.00 lb./ft, IEU
Wall Thickness : 0.330”
Section Area body of Pipe : 3.805 sq. in
Collapse Pressure : 13,836 psi (Premium)
Internal Yield Pressure : 18,428 psi (Premium)
Tensile Yield : 403,500 lbs (Premium)
Torsional Yield : 32,800 ft/lbs (Premium)
Ave Length per Joint : 31.50 ft
Internal Plastic Coating : Tubescope TK-34

TOOL JOINTS:
Tool Joint OD/ID : 4-7/8 x 2-9/16”
Connection : Grant XT-39 Pin x Box
Hardfacing : ARNCO 100 XT, Box & Pin
Tensile Yield : 726,400 lbs
Torsional Yield : 30,400 ft/lbs
Minimum Make Up Torque : 12,278 ft/lbs
Optimum Make Up Torque : 17,760 ft/lbs
Maximum Make Up Torque : 22,200 ft/lbs
Drift Diameter : 2.438”
4” OD, S-135T, 14.0 lb./ft Grant XTF-39

PIPE:
Pipe OD/ID : 4.000” x 3.340”
Grade & Range : S-135T, Range 2
Weight & Upset : 14.00 lb./ft, IEU
Wall Thickness : 0.330”
Section Area body of Pipe : 3.805 sq. in
Collapse Pressure : 13,836 psi (Premium)
Internal Yield Pressure : 18,428 psi (Premium)
Tensile Yield : 403,500 lbs (Premium)
Torsional Yield : 32,800 ft/lbs (Premium)
Ave Length per Joint : 31.50 ft
Internal Plastic Coating : Tubescope TK-34

TOOL JOINTS:
Tool Joint OD/ID : 5” x 2-9/16”
Connection : Grant XTF-39 Pin x Box
Hardfacing : Tubescope TCSTi
Tensile Yield : 726,400 lbs
Torsional Yield : 30,400 ft/lbs
Minimum Make Up Torque : 12,278 ft/lbs
Optimum Make Up Torque : 17,760 ft/lbs
Maximum Make Up Torque : 22,200 ft/lbs
Drift Diameter : 2.438”
4” OD, XD-105, 14.0 lb./ft Grant XT-39

PIPE:
Pipe OD/ID : 4.000” x 3.340”
Grade & Range : XD-105, Range 2
Weight & Upset : 14.00 lb./ft, IEU
Wall Thickness : 0.330”
Section Area body of Pipe : 3.805 sq. in
Collapse Pressure : 15,896 psi (New)
Internal Yield Pressure : 15,159 psi (New)
Tensile Yield : 399,500 lbs. (New)
Torsional Yield : 32,600 lbs. (New)
Ave Length per Joint : 31.50 ft
Internal Plastic Coating : Tuboscope TK-34

TOOL JOINTS:
Tool Joint OD/ID : 4-7/8 x 2-9/16”
Connection : Grant XT-39 Pin x Box
Hardfacing : ARNCO 100 XT
Tensile Yield : 635,300 lbs.
Torsional Yield : 32,300 ft/lbs.
Minimum Make Up Torque : 12,200 ft/lbs.
Optimum Make Up Torque : 17,760 ft/lbs
Maximum Make Up Torque : 22,200 ft/lbs.
Drift Diameter : 2.438”
**4” OD, S-135, 14.0 lb./ft**

**PIPE:**
- Pipe OD/ID: 4.000” x 3.340”
- Grade & Range: S-135, Range 2
- Weight & Upset: 14.00 lb./ft, IEU
- Wall Thickness: 0.330”
- Section Area body of Pipe: 3.805 sq. in
- Collapse Pressure: 13,836 psi (Premium)
- Internal Yield Pressure: 17,820 psi (Premium)
- Tensile Yield: 403,527 lbs (Premium)
- Torsional Yield: 32,752 ft/lbs (Premium)
- Ave Length per Joint: 31.50 ft
- Internal Plastic Coating: Tubescope TK-34 (some)

**TOOL JOINTS:**
- Tool Joint OD/ID: 5-1/8” x 2-13/16”
- Connection: 4” FH Pin x Box
- Hardfacing: ARNCO 200 XT, Box only
- Torsional Yield: 23,350 ft/lbs
- Optimum Make Up Torque: 14,010 ft/lbs
- Drift Diameter: 2.688”
3-1/2” OD, S-135, 15.5 lb./ft

**PIPE:**
- Manufacturer: 
- Pipe OD/ID: 3.500” x 2.602”
- Grade & Range: S-135, range 2
- Weight & Upset: 15.50 lb./ft, IEU
- Wall Thickness: 0.449”
- Section Area body of Pipe: 4.304 sq. in
- Collapse Pressure: 26,049 psi (premium)
- Internal Yield Pressure: 27,710 psi (premium)
- Tensile Yield: 451,115 lbs (premium)
- Torsional Yield: 29,063 ft/lbs (premium)
- Ave Length per Joint: 31.00 ft
- Internal Plastic Coating: TK-34

**TOOL JOINTS:**
- Tool Joint OD/ID: 4-3/4” x 2-9/16”
- Connection: NC 38 Pin x Box
- Hardfacing: None
- Tensile Yield: 350,000 lbs (new)
- Torsional Yield: 19,170 ft/lbs (new)
- Optimum Make Up Torque: 11,500 ft/lbs (new)
- Drift Diameter: 2.500”
3-1/2” OD, S-135, 15.5 lb./ft

**PIPE:**
- **Manufacturer:**
- **Pipe OD/ID:** 3.500” x 2.602”
- **Grade & Range:** S-135, range 2
- **Weight & Upset:** 15.50 lb./ft, IEU
- **Wall Thickness:** 0.449”
- **Section Area body of Pipe:** 4.304 sq. in
- **Collapse Pressure:** 26,049 psi (premium)
- **Internal Yield Pressure:** 27,710 psi (premium)
- **Tensile Yield:** 451,115 lbs (premium)
- **Torsional Yield:** 29,063 ft/lbs (premium)
- **Ave Length per Joint:** 31.00 ft
- **Internal Plastic Coating:** TK-34

**TOOL JOINTS:**
- **Tool Joint OD/ID:** 5” x 2-9/16”
- **Connection:** DSTJ-NC 38 Pin x Box
- **Hardfacing:** None
- **Tensile Yield:** lbs (new)
- **Torsional Yield:** ft/lbs (new)
- **Optimum Make Up Torque:** ft/lbs (new)
- **Drift Diameter:** 2.500”

NKK DSTJ is totally Interchangeable with Standard 3-1/2”IF (NC-38) Connections
**3-1/2” OD, S-135, 15.50 lb./ft**

**PIPE:**
- **Manufacturer:** Baoshan China
- **Pipe OD/ID:** 3.500 x 2.602”
- **Grade & Range:** S-135, range 2
- **Nominal Weight & Upset:** 15.50 lb./ft, IEU
- **Wall Thickness:** 0.449”
- **Section Area body of Pipe:** 4.304 sq. in (new)
- **Collapse Pressure:** 26,049 psi (Premium)
- **Internal Yield Pressure:** 27,710 psi (Premium)
- **Tensile Yield:** 451,115 lb. (Premium)
- **Torsional Yield:** 29,063 ft/lb. (Premium)
- **Ave Length per Joint:** 31.00 ft
- **Internal Plastic Coating:** TK-34

**TOOL JOINTS:**
- **Tool Joint OD/ID:** 5” x 2-9/16”
- **Connection:** BGDS/DSTJ
- **Hardfacing:** None
- **Tensile Yield:** 350,000 lb. (New)
- **Torsional Yield:** 26,930 ft/lb. (New)
- **Optimum Make Up Torque:** 18,900 ft/lb. (New)
- **Max Make Up Torque:** 13,230 ft/lb. (New)
- **Drift Diameter:** 2.500”

Connection is fully Interchangeable with API 3-1/2”IF (NC-38)
### 3-1/2” OD, G-105, 15.50 lb./ft GPDS38

**PIPE:**
- Pipe OD/ID: 3.500 x 2.764”
- Grade & Range: G-105, range 2
- Nominal Weight & Upset: 15.50 lb./ft, EU
- Wall Thickness: 0.368”
- Section Area body of Pipe: 3.621 sq. in (new)
- Collapse Pressure: psi
- Internal Yield Pressure: psi
- Tensile Yield: 
- Torsional Yield: 
- Ave Length per Joint: 31.50 ft
- Internal Plastic Coating: TK-34

**TOOL JOINTS:**
- Tool Joint OD/ID: 5” x 2-9/16”
- Connection: (NC-38) BGDS
- Hardfacing: ARNCO 300XT
- Tensile Yield: 560,000 lb. (Premium)
- Torsional Yield: 26,930 ft/lb. (Premium)
- Minimum Make Up Torque: 12,200 ft/lb (Premium)
- Optimum Make Up Torque: 14,900 ft/lb. (Premium)
- Max Make Up Torque: 18,900 ft/lb. (Premium)
- Drift Diameter: 2.500”

Baoshan BGDS is fully Interchangeable with Standard 3-1/2” IF (NC-38) Connections
## 3-1/2” OD, S-135, 13.30 lb./ft GPDS38

### PIPE (Premium):
- **Manufacturer**: Grant Prideco
- **Pipe OD/ID**: 3.500”
- **Grade & Range**: S-135, range 2
- **Nominal Weight & Upset**: 13.30 lb./ft, IEU
- **Wall Thickness**: 0.368”
- **Section Area body of Pipe**: 5.144 sq. in (new)
- **Collapse Pressure**: 25,404 psi (Premium)
- **Internal Yield Pressure**: 24,840 psi (Premium)
- **Tensile Yield**: 488,800 lb. (Premium)
- **Torsional Yield**: 33,400 ft/lb. (Premium)
- **Ave Length per Joint**: 31.00 ft
- **Internal Plastic Coating**: TK-34

### TOOL JOINTS:
- **Tool Joint OD/ID**: 5” x 2-9/16”
- **Connection**: GPSD38
- **Hardfacing**: Tuboscope TCS Titanium 3/32”
- **Tensile Yield**: 649,200 lb. (New)
- **Torsional Yield**: 25,800 ft/lb. (New)
- **Optimum Make Up Torque**: 15,500 ft/lb. (New)
- **Max Make Up Torque**: 12,200 ft/lb. (New)
- **Drift Diameter**: 2.438”

Connection is fully Interchangeable with API 3-1/2"IF (NC-38)
3-1/2” OD, S-135, 13.3 lb./ft

PIPE:
Manufacturer : NKK
Pipe OD/ID : 3.500” x 2.764”
Grade & Range : S-135, range 2
Weight & Upset : 13.30 lb./ft, IEU
Wall Thickness : 0.368”
Section Area body of Pipe : 3.621 sq. in
Collapse Pressure : 21,626 psi (premium)
Internal Yield Pressure : 23,708 psi (premium)
Tensile Yield : 381,900 lbs (premium)
Torsional Yield : 25,900 ft/lbs (premium)
Ave Length per Joint : 31.5 ft
Internal Plastic Coating : TK-34

TOOL JOINTS:
Tool Joint OD/ID : 5” x 2-9/16”
Connection : NC-38 Pin x Box
Hardfacing : ARNCO 200XT
Tensile Yield : 300,000 lbs (premium)
Torsional Yield : 20,140 ft/lbs (premium)
Maximum Make Up Torque : 12,220 ft/lbs (premium)
Drift Diameter : 2.500”
**3-1/2” OD, S-135, 13.3 lb./ft HT-38**

**PIPE:**
- Manufacturer: Grant Prideco
- Pipe OD/ID: 3.500” x 2.764”
- Grade & Range: S-135, range 2
- Weight & Upset: 13.30 lb./ft, IEU
- Wall Thickness: 0.368”
- Section Area body of Pipe: 3.621 sq. in
- Collapse Pressure: 21,626 psi (premium)
- Internal Yield Pressure: 23,708 psi (premium)
- Tensile Yield: 381,900 lbs (premium)
- Torsional Yield: 25,900 ft/lbs (premium)
- Ave Length per Joint: 31.5 ft
- Internal Plastic Coating: TK-34

**TOOL JOINTS:**
- Tool Joint OD/ID: 5” x 2-9/16”
- Connection: Grant HT-38 Pin x Box
- Hardfacing: Smooth X
- Tensile Yield: 649,400 lbs (premium)
- Torsional Yield: 29,600 ft/lbs (premium)
- Maximum Make Up Torque: 17,800 ft/lbs (premium)
- Drift Diameter: 2.500”
3-1/2” OD, S-135, 9.50 lb./ft HT-38

PIPE:
Manufacturer : Grant Prideco
Pipe OD/ID : 3.500” x 2.992”
Grade & Range : S-135, range 2
Weight & Upset : 9.50 lb./ft, IEU
Wall Thickness : 0.254”
Section Area body of Pipe : 2.590 sq. in
Collapse Pressure : 10,093 psi (premium)
Internal Yield Pressure : 15,675 psi (premium)
Tensile Yield : 275,363 lbs (premium)
Torsional Yield : 19,968 ft/lbs (premium)
Ave Length per Joint : 31.5 ft
Internal Plastic Coating : TK-34

TOOL JOINTS:
Tool Joint OD/ID : 4-3/4” x 2-11/16”
Connection : Grant HT-38 Pin x Box
Hardfacing : Smooth X
Tensile Yield : 587,600 lbs (premium)
Torsional Yield : 25,300 ft/lbs (premium)
Maximum Make Up Torque : 15,200 ft/lbs (premium)
Drift Diameter : 2.500”
3-1/2” OD, G-105, 13.3 lb./ft

**PIPE:**
- Pipe OD/ID: 3.500” x 2.764”
- Grade & Range: G-105, Range 2
- Weight & Upset: 13.30 lb./ft, IEU
- Wall Thickness: 0.368”
- Section Area body of Pipe: 3.621 sq. in
- Collapse Pressure: 19,758 psi (New)
- Internal Yield Pressure: 19,320 psi (New)
- Tensile Yield: 380,197 lbs (New)
- Torsional Yield: 25,972 ft/lbs (New)
- Ave Length per Joint: 31.5 ft
- Internal Plastic Coating: TK-34

**TOOL JOINTS:**
- Tool Joint OD/ID: 5” x 2-9/16”
- Connection: (NC-38) DSTJ
- Hardfacing: Flush
- Tensile Yield: 560,000 lbs (premium)
- Torsional Yield: 26,930 ft/lbs (premium)
- Minimum Make Up Torque: 12,200 ft/lbs (premium)
- Recommended Make Up Torque: 14,900 ft/lbs (premium)
- Maximum Make Up Torque: 18,900 ft/lbs (premium)
- Drift Diameter: 2.500”

NKK DSTJ is totally interchangeable with Standard 3-1/2”IF (NC-38) Connections
2-7/8” OD, S-135, 10.4 lb./ft, Hydril WT-23

**PIPE:**
- Pipe OD/ID: 2-7/8” x 2.151”
- Grade & Range: S-135, range 2
- Weight & Upset: 10.4 lb./ft, IEU
- Wall Thickness: 0.362”
- Hook Load (new): 385,820 lbs
- Section Area body of Pipe: 2.8579 sq. in
- Polar Sectional modulus: 3.204 cu. in
- Collapse Pressure: 25,602 psi (Premium)
- Internal Yield Pressure: 27,197 psi (Premium)
- Tensile Yield: 299,764 lb. (Premium)
- Torsional Yield: 15,945 ft/lb. (Premium)
- Internal Plastic Coating: Nil

**TOOL JOINTS:**
- Tool Joint Manufacturer: OMSCO Industries Ltd.
- Material: 4137 mod.
- Tool Joint OD/ID: 3-1/8” x 1-1/2”
- Tool Joint Length: 9” Pin x 11” Box
- Connection: Hydril WT-23
- Hardfacing: Arnco 200XT Type J
- Bevel Diameter: 2-15/16”
- Tensile Yield: 387,000 lb. (New)
- Torsional Yield: 10,400 ft/lb. (New)
- Make Up Torque: 5,500 ft/lb.
- Drift Diameter: 1.375”
2-7/8” OD, S-135, 10.4 lb./ft, PAC DS

**PIPE:**
- Pipe OD/ID: 2-7/8” x 2.151”
- Grade & Range: S-135, range 2
- Weight & Upset: 10.4 lb./ft, IEU
- Wall Thickness: 0.362”
- Hook Load (new): 385,820 lbs
- Section Area body of Pipe: 2.8579 sq. in
- Polar Sectional modulus: 3.204 cu. in.
- Collapse Pressure: 25,602 psi (Premium)
- Internal Yield Pressure: 27,197 psi (Premium)
- Tensile Yield: 299,764 lb. (Premium)
- Torsional Yield: 15,945 ft/lb. (Premium)
- Internal Plastic Coating: Nil

**TOOL JOINTS:**
- Tool Joint OD/ID: 3-1/8” x 1-1/2”
- Connection: PAC DS (Double Shoulder)
- Hardfacing: Nil
- Tensile Yield: 273,200 lbs (New)
- Torsional Yield: 9,001 ft/lb. (New)
- Make Up Torque: 5,401 ft/lb.
- Drift Diameter: 1.375”
2-7/8” OD, S-135, 10.4 lb./ft, PAC DSI

PIPE:
Pipe OD/ID : 2-7/8” x 2.151”
Grade & Range : S-135, range 2
Weight & Upset : 10.4 lb./ft, IEU
Wall Thickness : 0.362”
Hook Load (new) : 385,820 lbs
Section Area body of Pipe : 2.8579 sq. in
Polar Sectional modulus : 3.204 cu. in.
Collapse Pressure : 25,602 psi (Premium)
Internal Yield Pressure : 27,197 psi (Premium)
Tensile Yield : 299,764 lb. (Premium)
Torsional Yield : 15,945 ft/lb. (Premium)
Internal Plastic Coating : TK-34

TOOL JOINTS:
Tool Joint OD/ID : 3-1/8” x 1-1/2”
Connection : PAC DSI (Double Shoulder)
Hardfacing : ARNCO 200XT
Tensile Yield : 273,200 lbs (New)
Torsional Yield : 9,001 ft/lb. (New)
Make Up Torque : 5,401 ft/lb.
Drift Diameter : 1.375”
**2-7/8” OD, E-75, 10.4 lb./ft, PAC**

**PIPE:**
- Pipe OD/ID: 2-7/8” x 2.151”
- Grade & Range: Grade E-75, range 2
- Weight & Upset: 10.4 lb./ft, IEU
- Wall Thickness: 0.362”
- Section Area body of Pipe: 2.8579 sq. in
- Polar Sectional modulus: 3.204 cu. in
- Collapse Pressure: 14,223 psi (Premium)
- Internal Yield Pressure: 15,110 psi (Premium)
- Tensile Yield: 166,535 lb. (Premium)
- Torsional Yield: 8,858 ft/lb. (Premium)
- Internal Plastic Coating: Nil

**TOOL JOINTS:**
- Tool Joint OD/ID: 3-1/8” x 1-1/2”
- Connection: American PAC
- Hardfacing: Nil
- Bevel Diameter: 2-15/16”
- Tensile Yield: 269,470 lb.(New)
- Torsional Yield: 5,800 ft/lb.(New)
- Make Up Torque: 2,900 ft/lb.
- Drift Diameter: 1.375”
2-3/8” OD, E-75, 6.65 lb./ft

**PIPE:**
- Pipe OD/ID: 2-3/8” x 1.815”
- Grade & Range: Grade E-75, Range 2
- Weight & Upset: 6.65 lb./ft, IEU
- Wall Thickness: 0.280”
- Section Area body of Pipe: 2.587 sq. in
- Polar Sectional modulus: 0.867 cu. in.
- Collapse Pressure: 13,378 psi (Premium)
- Internal Yield Pressure: 14,147 psi (Premium)
- Tensile Yield: 107,616 lbs. (Premium)
- Torsional Yield: 4,811 ft/lb. (Premium)
- Internal Plastic Coating: Nil

**TOOL JOINTS:**
- Tool Joint OD/ID: 3-3/8” x 1-3/4”
- Connection: NC 26 (2-3/8” IF)
- Hardfacing: Nil
- Tensile Yield: 155,000 lbs (New)
- Torsional Yield: 6,880 ft/lb. (New)
- Make Up Torque: 4,130 ft/lb.
- Drift Diameter: 1.625”