

Connection Data Sheet

NSMAX™ -GR-PS

Material Grade: 95 ksi

Available Sizes

| OD (inch) | Nominal Weight (lbs/ft) |
|--------------|----------------------------|
| 18 | 94.0 |
| | 105.0 |
| 18-5/8 | 87.5 |
| | 94.5 |
| | 96.5 |
| | 101.0 |
| | 106.0 |
| | 109.4 |
| | 112.0 |
| 20 | 115.0 |
| | 94.0 |
| | 106.5 |
| | 117.0 |
| | 133.0 |

Document No.

CDS : NSMAX-GR-PS 18" 94.0# 95KSI

Rev.No. 0



| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|----------------|-------------------|-----------------------------|---------|--------------------|--------------|
| 18.000 | 94.0 | 0.500 | NT-95DE | 16.812 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.000 | inch |
| Nominal ID : | 17.000 | inch |
| Nominal Cross section Area : | 27.489 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,611 | klb |
| Compression Yield Strength : | 2,611 | klb |
| External (collapse) Pressure : | 1,300 | psi |
| Internal Yield Pressure : | 4,880 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 19.063 | inch |
| Connection ID (nom) : | 17.000 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 24.740 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 16,560 | ft.lbs |
| Opt. Make-up Torque : | 18,400 | ft.lbs |
| Max. Make-up Torque : | 20,240 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|----------------|-------------------|-----------------------------|---------|--------------------|--------------|
| 18.000 | 105.0 | 0.562 | NT-95DE | 16.688 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| | | |
|--------------------------------|--------|-------|
| <u>Geometry</u> | | |
| Nominal OD : | 18.000 | inch |
| Nominal ID : | 16.876 | inch |
| Nominal Cross section Area : | 30.788 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,925 | klb |
| Compression Yield Strength : | 2,925 | klb |
| External (collapse) Pressure : | 1,810 | psi |
| Internal Yield Pressure : | 5,490 | psi |

Connection Data

| | | |
|-----------------------------------|--------|-----------|
| <u>Geometry</u> | | |
| Connection OD (nom) : | 19.063 | inch |
| Connection ID (nom) : | 16.876 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 27.709 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 18,450 | ft.lbs |
| Opt. Make-up Torque : | 20,500 | ft.lbs |
| Max. Make-up Torque : | 22,550 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 18.625 | 87.5 | 0.435 | NT-95DE | 17.567 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.755 | inch |
| Nominal Cross section Area : | 24.858 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,362 | klb |
| Compression Yield Strength : | 2,362 | klb |
| External (collapse) Pressure : | 790 | psi |
| Internal Yield Pressure : | 4,100 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.755 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 22.372 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 17,010 | ft.lbs |
| Opt. Make-up Torque : | 18,900 | ft.lbs |
| Max. Make-up Torque : | 20,790 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 18.625 | 94.5 | 0.468 | NT-95DE | 17.501 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.689 | inch |
| Nominal Cross section Area : | 26.696 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,536 | klb |
| Compression Yield Strength : | 2,536 | klb |
| External (collapse) Pressure : | 970 | psi |
| Internal Yield Pressure : | 4,420 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.689 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 24.026 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 17,280 | ft.lbs |
| Opt. Make-up Torque : | 19,200 | ft.lbs |
| Max. Make-up Torque : | 21,120 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Special Drift D. (inch) | Connection |
|----------------|-------------------|-----------------------------|---------|-------------------------------|--------------|
| 18.625 | 96.5 | 0.486 | NT-95DE | 17.500 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| | | |
|--------------------------------|--------|-------|
| <u>Geometry</u> | | |
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.653 | inch |
| Nominal Cross section Area : | 27.695 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,631 | klb |
| Compression Yield Strength : | 2,631 | klb |
| External (collapse) Pressure : | 1,080 | psi |
| Internal Yield Pressure : | 4,590 | psi |

Connection Data

| | | |
|-----------------------------------|--------|-----------|
| <u>Geometry</u> | | |
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.653 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 24.925 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 17,460 | ft.lbs |
| Opt. Make-up Torque : | 19,400 | ft.lbs |
| Max. Make-up Torque : | 21,340 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Special Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-------------------------|--------------|
| 18.625 | 101.0 | 0.510 | NT-95DE | 17.500 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.605 | inch |
| Nominal Cross section Area : | 29.024 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,757 | klb |
| Compression Yield Strength : | 2,757 | klb |
| External (collapse) Pressure : | 1,250 | psi |
| Internal Yield Pressure : | 4,810 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.605 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 26.122 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 18,270 | ft.lbs |
| Opt. Make-up Torque : | 20,300 | ft.lbs |
| Max. Make-up Torque : | 22,330 | ft.lbs |

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CDS : NSMAX-GR-PS 18-5/8" 106.0# 95KSI

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 18.625 | 106.0 | 0.531 | NT-95DE | 17.375 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.563 | inch |
| Nominal Cross section Area : | 30.184 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,867 | klb |
| Compression Yield Strength : | 2,867 | klb |
| External (collapse) Pressure : | 1,400 | psi |
| Internal Yield Pressure : | 5,010 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.563 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 27.166 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 19,080 | ft.lbs |
| Opt. Make-up Torque : | 21,200 | ft.lbs |
| Max. Make-up Torque : | 23,320 | ft.lbs |

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CDS : NSMAX-GR-PS 18-5/8" 109.4# 95KSI

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|----------------|-------------------|-----------------------------|---------|--------------------|--------------|
| 18.625 | 109.4 | 0.563 | NT-95DE | 17.311 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.499 | inch |
| Nominal Cross section Area : | 31.947 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 3,035 | klb |
| Compression Yield Strength : | 3,035 | klb |
| External (collapse) Pressure : | 1,650 | psi |
| Internal Yield Pressure : | 5,310 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.499 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 28.752 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 20,070 | ft.lbs |
| Opt. Make-up Torque : | 22,300 | ft.lbs |
| Max. Make-up Torque : | 24,530 | ft.lbs |

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CDS : NSMAX-GR-PS 18-5/8" 112.0# 95KSI

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 18.625 | 112.0 | 0.579 | NT-95DE | 17.279 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.467 | inch |
| Nominal Cross section Area : | 32.825 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 3,118 | klb |
| Compression Yield Strength : | 3,118 | klb |
| External (collapse) Pressure : | 1,790 | psi |
| Internal Yield Pressure : | 5,460 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.467 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 29.543 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 24,390 | ft.lbs |
| Opt. Make-up Torque : | 27,100 | ft.lbs |
| Max. Make-up Torque : | 29,810 | ft.lbs |

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CDS : NSMAX-GR-PS 18-5/8" 115.0# 95KSI

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 18.625 | 115.0 | 0.594 | NT-95DE | 17.249 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 18.625 | inch |
| Nominal ID : | 17.437 | inch |
| Nominal Cross section Area : | 33.648 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 3,197 | klb |
| Compression Yield Strength : | 3,197 | klb |
| External (collapse) Pressure : | 1,930 | psi |
| Internal Yield Pressure : | 5,610 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 20.000 | inch |
| Connection ID (nom) : | 17.437 | inch |
| Make-up Loss : | 5.374 | inch |
| Coupling Length : | 10.748 | inch |
| Critical Cross Section : | 30.283 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 25,020 | ft.lbs |
| Opt. Make-up Torque : | 27,800 | ft.lbs |
| Max. Make-up Torque : | 30,580 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|----------------|-------------------|-----------------------------|---------|--------------------|--------------|
| 20.000 | 94.0 | 0.438 | NT-95DE | 18.936 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| | | |
|--------------------------------|--------|-------|
| <u>Geometry</u> | | |
| Nominal OD : | 20.000 | inch |
| Nominal ID : | 19.124 | inch |
| Nominal Cross section Area : | 26.918 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,557 | klb |
| Compression Yield Strength : | 2,557 | klb |
| External (collapse) Pressure : | 650 | psi |
| Internal Yield Pressure : | 3,850 | psi |

Connection Data

| | | |
|-----------------------------------|--------|-----------|
| <u>Geometry</u> | | |
| Connection OD (nom) : | 21.063 | inch |
| Connection ID (nom) : | 19.124 | inch |
| Make-up Loss : | 5.413 | inch |
| Coupling Length : | 10.827 | inch |
| Critical Cross Section : | 24.226 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 17,730 | ft.lbs |
| Opt. Make-up Torque : | 19,700 | ft.lbs |
| Max. Make-up Torque : | 21,670 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 20.000 | 106.5 | 0.500 | NT-95DE | 18.812 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 20.000 | inch |
| Nominal ID : | 19.000 | inch |
| Nominal Cross section Area : | 30.631 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 2,910 | klb |
| Compression Yield Strength : | 2,910 | klb |
| External (collapse) Pressure : | 960 | psi |
| Internal Yield Pressure : | 4,390 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 21.063 | inch |
| Connection ID (nom) : | 19.000 | inch |
| Make-up Loss : | 5.413 | inch |
| Coupling Length : | 10.827 | inch |
| Critical Cross Section : | 27.567 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 18,000 | ft.lbs |
| Opt. Make-up Torque : | 20,000 | ft.lbs |
| Max. Make-up Torque : | 22,000 | ft.lbs |

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| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 20.000 | 117.0 | 0.563 | NT-95DE | 18.686 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 20.000 | inch |
| Nominal ID : | 18.874 | inch |
| Nominal Cross section Area : | 34.379 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 3,266 | klb |
| Compression Yield Strength : | 3,266 | klb |
| External (collapse) Pressure : | 1,350 | psi |
| Internal Yield Pressure : | 4,950 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 21.063 | inch |
| Connection ID (nom) : | 18.874 | inch |
| Make-up Loss : | 5.413 | inch |
| Coupling Length : | 10.827 | inch |
| Critical Cross Section : | 30.941 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 19,980 | ft.lbs |
| Opt. Make-up Torque : | 22,200 | ft.lbs |
| Max. Make-up Torque : | 24,420 | ft.lbs |

Document No.

CDS : NSMAX-GR-PS 20" 133.0# 95KSI

Rev.No. 0



| O.D. (inch) | Weight (lb/ft) | Wall Thickness (inch) | Grade | Drift D. (inch) | Connection |
|-------------|----------------|-----------------------|---------|-----------------|--------------|
| 20.000 | 133.0 | 0.635 | NT-95DE | 18.542 | NSMAX™-GR-PS |

Grade - Material Property

| | | |
|----------------------------|-----|-----|
| Minimum Yield Strength : | 95 | ksi |
| Maximum Yield Strength : | 110 | ksi |
| Minimum Tensile Strength : | 105 | ksi |

Pipe Body Data (PE)

| <u>Geometry</u> | | |
|--------------------------------|--------|-------|
| Nominal OD : | 20.000 | inch |
| Nominal ID : | 18.730 | inch |
| Nominal Cross section Area : | 38.631 | sqin. |
| Min. Wall Thickness : | 92.5 | % |
| <u>Property</u> | | |
| Tensile Yield Strength : | 3,670 | klb |
| Compression Yield Strength : | 3,670 | klb |
| External (collapse) Pressure : | 1,900 | psi |
| Internal Yield Pressure : | 5,580 | psi |

Connection Data

| <u>Geometry</u> | | |
|-----------------------------------|--------|-----------|
| Connection OD (nom) : | 21.063 | inch |
| Connection ID (nom) : | 18.730 | inch |
| Make-up Loss : | 5.413 | inch |
| Coupling Length : | 10.827 | inch |
| Critical Cross Section : | 34.768 | sqin. |
| <u>Efficiency</u> | | |
| Tension Efficiency : | 90 | % of pipe |
| Compression Efficiency : | 90 | % of pipe |
| External Pressure Efficiency : | 100 | % of pipe |
| Internal Pressure Efficiency : | 100 | % of pipe |
| <u>Torque (Field end Make up)</u> | | |
| Min. Make-up Torque : | 28,080 | ft.lbs |
| Opt. Make-up Torque : | 31,200 | ft.lbs |
| Max. Make-up Torque : | 34,320 | ft.lbs |