

Wedge 563™ Casing & Tubing Torque tables

Wedge 563™ - Tubing Torque Table | 2 3/8" TO 7"

| SIZE (OD) | NOMINAL WEIGHT | WALL THICKNESS | MAKE UP TORQUE | | | YIELD TORQUE (BY SMYS OF STEEL GRADE) | | | | | |
|--------------|----------------|----------------|----------------|--------|-------------|---------------------------------------|--------|--------|---------|---------|-------|
| | | | Minimum | Target | Operational | 55 ksi | 80 ksi | 95 ksi | 110 ksi | 125 ksi | |
| in | lb/ft | in | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | |
| 2 3/8 | 4.60 | 0.190 | 1300 | 1600 | 2200 | 2800 | 3600 | 4300 | 4900 | 5600 | |
| | 5.10 | 0.218 | 1500 | 1800 | 2600 | | 3600 | 4300 | 4900 | 5600 | |
| | 5.80 | 0.254 | 1700 | 2000 | 2900 | | 3600 | 4300 | 4900 | 5600 | |
| | 6.60 | 0.295 | 1900 | 2300 | 2900 | | 3600 | 4300 | 4900 | 5600 | |
| | 7.35 | 0.336 | 2200 | 2600 | 2900 | | 3600 | 4300 | 4900 | 5600 | |
| 2 7/8 | 6.40 | 0.217 | 1600 | 1900 | 2800 | 3900 | 5300 | 6100 | 6900 | 7800 | |
| | 7.80 | 0.276 | 2000 | 2400 | 3500 | | 5300 | 6100 | 6900 | 7800 | |
| | 8.60 | 0.308 | 2100 | 2500 | 3700 | | 5300 | 6100 | 6900 | 7800 | |
| | 9.35 | 0.340 | 3500 | 4200 | 6100 | | 8800 | 10000 | 11300 | 12800 | |
| | 10.50 | 0.392 | 4000 | 4800 | 7000 | | 8800 | 10000 | 11300 | 12800 | |
| | 11.50 | 0.440 | 4500 | 5400 | 7000 | | 8800 | 10000 | 11300 | 12800 | |
| 3 1/2 | 9.20 | 0.254 | 2400 | 2900 | 4200 | 5900 | 8000 | 9200 | 10400 | 11800 | |
| | 10.20 | 0.289 | 2700 | 3200 | 4700 | | 8000 | 9200 | 10400 | 11800 | |
| | 12.70 | 0.375 | 3300 | 4000 | 5800 | | 8000 | 9200 | 10400 | 11800 | |
| | 14.30 | 0.430 | 6000 | 7200 | 10500 | | 14500 | 16400 | 18400 | 21000 | |
| | 15.50 | 0.476 | 6600 | 7900 | 11600 | | 14500 | 16400 | 18400 | 21000 | |
| | 16.70 | 0.510 | 7000 | 8400 | 11600 | | 14500 | 16400 | 18400 | 21000 | |
| | 17.00 | 0.530 | 7400 | 8900 | 11600 | | 14500 | 16400 | 18400 | 21000 | |
| 4 | 11.00 | 0.262 | 2800 | 3400 | 4900 | 7500 | 10200 | 11800 | 13400 | 15200 | |
| | 11.60 | 0.286 | 3100 | 3700 | 5400 | | 7500 | 10200 | 11800 | 13400 | 15200 |
| | 13.20 | 0.330 | 3400 | 4100 | 6000 | | 10200 | 11800 | 13400 | 15200 | |
| | 14.80 | 0.380 | 5500 | 6600 | 9600 | | 16600 | 19100 | 21600 | 25000 | |
| | 16.10 | 0.415 | 6000 | 7200 | 10500 | | 16600 | 19100 | 21600 | 25000 | |
| | 18.90 | 0.500 | 9100 | 10900 | 15900 | | 23000 | 27000 | 30000 | 34000 | |
| | 21.10 | 0.562 | 10300 | 12400 | 18000 | | 23000 | 27000 | 30000 | 34000 | |
| 22.20 | 0.610 | 11300 | 13600 | 18400 | 23000 | 27000 | 30000 | 34000 | | | |
| 4 1/2 | 11.60 | 0.250 | 3000 | 3600 | 5300 | 9200 | 12600 | 14600 | 16600 | 18900 | |
| | 12.60 | 0.271 | 3200 | 3800 | 5600 | | 9200 | 12600 | 14600 | 16600 | 18900 |
| | 13.50 | 0.290 | 3500 | 4200 | 6100 | | 12600 | 14600 | 16600 | 18900 | |
| | 15.20 | 0.337 | 5100 | 6100 | 8900 | | 19900 | 23000 | 26000 | 30000 | |
| | 17.00 | 0.380 | 5800 | 7000 | 10200 | | 19900 | 23000 | 26000 | 30000 | |
| | 18.90 | 0.430 | 6600 | 7900 | 11600 | | 19900 | 23000 | 26000 | 30000 | |
| | 21.50 | 0.500 | 10200 | 12200 | 17900 | | 29000 | 33000 | 37000 | 42000 | |
| | 23.70 | 0.560 | 11500 | 13800 | 20000 | | 29000 | 33000 | 37000 | 42000 | |
| 26.10 | 0.630 | 13000 | 15600 | 23000 | 29000 | 33000 | 37000 | 42000 | | | |
| 5 | 15.00 | 0.296 | 5500 | 6600 | 9600 | 12700 | 18400 | 21900 | 25000 | 28000 | |
| | 18.00 | 0.362 | 6500 | 7800 | 11400 | | 18400 | 22000 | 25000 | 28000 | |
| | 21.40 | 0.437 | 13900 | 16700 | 24000 | | 31000 | 37000 | 43000 | 49000 | |
| | 23.20 | 0.478 | 14500 | 17400 | 25000 | | 31000 | 37000 | 43000 | 49000 | |
| | 24.10 | 0.500 | 15000 | 18000 | 25000 | | 31000 | 37000 | 43000 | 49000 | |
| 5 1/2 | 15.50 | 0.275 | 5200 | 6200 | 9100 | 15400 | 22000 | 27000 | 31000 | 35000 | |
| | 17.00 | 0.304 | 5800 | 7000 | 10200 | | 15400 | 22000 | 27000 | 31000 | 35000 |
| | 20.00 | 0.361 | 6600 | 7900 | 11600 | | 22000 | 27000 | 31000 | 35000 | |
| | 23.00 | 0.415 | 7700 | 9200 | 13500 | | 22000 | 27000 | 31000 | 35000 | |
| | 26.00 | 0.476 | 11000 | 13200 | 19300 | | 27000 | 32000 | 37000 | 42000 | |
| | 26.80 | 0.500 | 12000 | 14400 | 21000 | | 27000 | 32000 | 37000 | 42000 | |
| | 28.40 | 0.530 | 12500 | 15000 | 22000 | | 27000 | 32000 | 37000 | 42000 | |
| | 29.70 | 0.562 | 16100 | 19300 | 28000 | | 35000 | 41000 | 48000 | 55000 | |
| 32.60 | 0.625 | 17600 | 21000 | 28000 | 35000 | 41000 | 48000 | 55000 | | | |
| 6 5/8 | 24.00 | 0.352 | 7500 | 9000 | 13100 | 25000 | 37000 | 43000 | 50000 | 57000 | |
| | 28.00 | 0.417 | 8600 | 10300 | 15100 | | 37000 | 43000 | 50000 | 57000 | |
| | 32.00 | 0.475 | 9900 | 11900 | 17300 | | 37000 | 43000 | 50000 | 57000 | |

• Buck-on torque values for Wedge 563™ connection are available at <http://premiumconnectiondata.tenaris.com/index.php>

| SIZE (OD) | NOMINAL WEIGHT | WALL THICKNESS | MAKE UP TORQUE | | | YIELD TORQUE (BY SMYS OF STEEL GRADE) | | | | |
|-----------|----------------|----------------|----------------|--------|-------------|---------------------------------------|--------|--------|---------|---------|
| | | | Minimum | Target | Operational | 55 ksi | 80 ksi | 95 ksi | 110 ksi | 125 ksi |
| in | lb/ft | in | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb |
| 7 | 23.00 | 0.317 | 6700 | 8000 | 11700 | 27000 | 39000 | 47000 | 54000 | 61000 |
| | 26.00 | 0.362 | 7800 | 9400 | 13700 | 27000 | 39000 | 47000 | 54000 | 61000 |
| | 29.00 | 0.408 | 8400 | 10100 | 14700 | | 39000 | 47000 | 54000 | 61000 |
| | 32.00 | 0.453 | 9500 | 11400 | 16600 | | 39000 | 47000 | 54000 | 61000 |
| | 35.00 | 0.498 | 14800 | 17800 | 26000 | | 55000 | 65000 | 75000 | 85000 |
| | 38.00 | 0.540 | 16200 | 19400 | 28000 | | 55000 | 65000 | 75000 | 85000 |
| | 41.00 | 0.590 | 17300 | 21000 | 30000 | | 55000 | 65000 | 75000 | 85000 |
| | 42.70 | 0.625 | 18700 | 22000 | 33000 | | 55000 | 65000 | 75000 | 85000 |

- SMYS: Specified Minimum Yield Strength.
- The minimum, field target, and operational torque values apply to all grades of steel.
- Many factors influence torque application. To ensure that minimum torque is attained, a field target torque (optimum torque) 20% over minimum is recommended.
- An appropriate safety factor should be applied to these yield torque values.
- Buck-on torque values for Wedge 563™ connection are available at <http://premiumconnectiondata.tenaris.com/index.php>
- For other unlisted combinations of dimension and SMYS please contact premiumconnections@tenaris.com

Wedge 563™ - Casing Torque Table | 5" TO 16"

| SIZE (OD) | NOMINAL WEIGHT | WALL THICKNESS | MAKE UP TORQUE | | | YIELD TORQUE (BY SMYS OF STEEL GRADE) | | | |
|---------------|----------------|----------------|----------------|--------|-------------|---------------------------------------|--------|---------|---------|
| | | | Minimum | Target | Operational | 80 ksi | 95 ksi | 110 ksi | 125 ksi |
| in | lb/ft | in | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb |
| 5 | 13.00 | 0.253 | 4500 | 5400 | 7900 | 18400 | 22000 | 25000 | 29000 |
| | 15.00 | 0.296 | 5500 | 6600 | 9600 | 18400 | 22000 | 25000 | 29000 |
| | 18.00 | 0.362 | 6500 | 7800 | 11400 | 18400 | 22000 | 25000 | 29000 |
| | 21.40 | 0.437 | 13900 | 16700 | 24000 | 31000 | 37000 | 43000 | 48000 |
| | 23.20 | 0.478 | 14500 | 17400 | 25000 | 31000 | 37000 | 43000 | 48000 |
| | 24.10 | 0.500 | 15000 | 18000 | 25000 | 31000 | 37000 | 43000 | 48000 |
| 5 1/2 | 14.00 | 0.244 | 4500 | 5400 | 7900 | 22000 | 27000 | 31000 | 35000 |
| | 15.50 | 0.275 | 5200 | 6200 | 9100 | 22000 | 27000 | 31000 | 35000 |
| | 17.00 | 0.304 | 5800 | 7000 | 10200 | 22000 | 27000 | 31000 | 35000 |
| | 20.00 | 0.361 | 6600 | 7900 | 11600 | 22000 | 27000 | 31000 | 35000 |
| | 23.00 | 0.415 | 7700 | 9200 | 13500 | 22000 | 27000 | 31000 | 35000 |
| | 26.00 | 0.476 | 11000 | 13200 | 19300 | 27000 | 32000 | 37000 | 42000 |
| | 26.80 | 0.500 | 12000 | 14400 | 21000 | 27000 | 32000 | 37000 | 42000 |
| | 28.40 | 0.530 | 12500 | 15000 | 22000 | 27000 | 32000 | 37000 | 42000 |
| | 29.70 | 0.562 | 16100 | 19300 | 28000 | 35000 | 41000 | 48000 | 54000 |
| 32.60 | 0.625 | 17600 | 21000 | 28000 | 35000 | 41000 | 48000 | 54000 | |
| 6 5/8 | 20.00 | 0.288 | 5900 | 7100 | 10300 | 37000 | 43000 | 50000 | 57000 |
| | 24.00 | 0.352 | 7500 | 9000 | 13100 | 37000 | 43000 | 50000 | 57000 |
| | 28.00 | 0.417 | 8600 | 10300 | 15100 | 37000 | 43000 | 50000 | 57000 |
| | 32.00 | 0.475 | 9900 | 11900 | 17300 | 37000 | 43000 | 50000 | 57000 |
| 7 | 20.00 | 0.272 | 5600 | 6700 | 9800 | 39000 | 47000 | 54000 | 61000 |
| | 23.00 | 0.317 | 6700 | 8000 | 11700 | 39000 | 47000 | 54000 | 61000 |
| | 26.00 | 0.362 | 7800 | 9400 | 13700 | 39000 | 47000 | 54000 | 61000 |
| | 29.00 | 0.408 | 8400 | 10100 | 14700 | 39000 | 47000 | 54000 | 61000 |
| | 32.00 | 0.453 | 9500 | 11400 | 16600 | 39000 | 47000 | 54000 | 61000 |
| | 35.00 | 0.498 | 14800 | 17800 | 26000 | 55000 | 65000 | 75000 | 86000 |
| | 38.00 | 0.540 | 16200 | 19400 | 28000 | 55000 | 65000 | 75000 | 86000 |
| | 41.00 | 0.590 | 17300 | 21000 | 30000 | 55000 | 65000 | 75000 | 86000 |
| | 42.70 | 0.625 | 18700 | 22000 | 33000 | 55000 | 65000 | 75000 | 86000 |
| 7 5/8 | 26.40 | 0.328 | 7800 | 9400 | 13700 | 47000 | 55000 | 64000 | 73000 |
| | 29.70 | 0.375 | 8600 | 10300 | 15100 | 47000 | 55000 | 64000 | 73000 |
| | 33.70 | 0.430 | 10100 | 12100 | 17700 | 47000 | 55000 | 64000 | 73000 |
| | 39.00 | 0.500 | 16100 | 19300 | 28000 | 62000 | 74000 | 86000 | 97000 |
| | 42.80 | 0.562 | 17800 | 21000 | 31000 | 62000 | 74000 | 86000 | 97000 |
| | 45.30 | 0.595 | 19000 | 23000 | 33000 | 62000 | 74000 | 86000 | 97000 |
| | 55.30 | 0.750 | 28000 | 34000 | 49000 | 81000 | 96000 | 112000 | 127000 |
| 7 3/4 | 46.10 | 0.595 | 25000 | 30000 | 44000 | 79000 | 93000 | 108000 | 123000 |
| | 48.60 | 0.640 | 25000 | 30000 | 44000 | 79000 | 93000 | 108000 | 123000 |
| 8 5/8 | 32.00 | 0.352 | 9400 | 11300 | 16500 | 60000 | 71000 | 82000 | 93000 |
| | 36.00 | 0.400 | 10500 | 12600 | 18400 | 60000 | 71000 | 82000 | 93000 |
| | 40.00 | 0.450 | 12000 | 14400 | 21000 | 60000 | 71000 | 82000 | 93000 |
| | 44.00 | 0.500 | 18200 | 22000 | 32000 | 80000 | 95000 | 110000 | 125000 |
| | 49.00 | 0.557 | 19800 | 24000 | 35000 | 80000 | 95000 | 110000 | 125000 |
| | 52.00 | 0.595 | 21000 | 25000 | 37000 | 80000 | 95000 | 110000 | 125000 |
| | 54.00 | 0.625 | 23000 | 28000 | 40000 | 80000 | 95000 | 110000 | 125000 |
| | 68.10 | 0.812 | 36000 | 43000 | 63000 | 105000 | 125000 | 145000 | 163000 |
| 9 5/8 | 36.00 | 0.352 | 10000 | 12000 | 17500 | 75000 | 89000 | 103000 | 117000 |
| | 40.00 | 0.395 | 10800 | 13000 | 18900 | 75000 | 89000 | 103000 | 117000 |
| | 43.50 | 0.435 | 11900 | 14300 | 21000 | 75000 | 89000 | 103000 | 117000 |
| | 47.00 | 0.472 | 13200 | 15800 | 23000 | 75000 | 89000 | 103000 | 117000 |
| | 53.50 | 0.545 | 15500 | 18600 | 27000 | 75000 | 89000 | 103000 | 117000 |
| 9 7/8 | 62.80 | 0.625 | 24000 | 29000 | 42000 | 108000 | 129000 | 149000 | 169000 |
| | 65.10 | 0.650 | 24000 | 29000 | 42000 | 108000 | 129000 | 149000 | 169000 |
| 10 3/4 | 40.50 | 0.350 | 12200 | 14600 | 21000 | 103000 | 122000 | 142000 | 161000 |
| | 45.50 | 0.400 | 13500 | 16200 | 24000 | 103000 | 122000 | 142000 | 161000 |
| | 51.00 | 0.450 | 15500 | 18600 | 27000 | 103000 | 122000 | 142000 | 161000 |
| | 55.50 | 0.495 | 23000 | 28000 | 40000 | 145000 | 172000 | 199000 | 226000 |
| | 60.70 | 0.545 | 25000 | 30000 | 44000 | 145000 | 172000 | 199000 | 226000 |
| | 65.70 | 0.595 | 27000 | 32000 | 47000 | 145000 | 172000 | 199000 | 226000 |

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| SIZE (OD) | NOMINAL WEIGHT | WALL THICKNESS | MAKE UP TORQUE | | | YIELD TORQUE (BY SMYS OF STEEL GRADE) | | | |
|---------------|----------------|----------------|----------------|--------|-------------|---------------------------------------|--------|---------|---------|
| | | | Minimum | Target | Operational | 80 ksi | 95 ksi | 110 ksi | 125 ksi |
| in | lb/ft | in | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb | ft.lb |
| 10 3/4 | 73.20 | 0.672 | 31000 | 37000 | 54000 | 145000 | 172000 | 199000 | 226000 |
| | 79.20 | 0.734 | 45000 | 54000 | 79000 | 198000 | 235000 | 273000 | 310000 |
| 11 3/4 | 47.00 | 0.375 | 13000 | 15600 | 23000 | 123000 | 147000 | 170000 | 193000 |
| | 54.00 | 0.435 | 15400 | 18500 | 27000 | 123000 | 147000 | 170000 | 193000 |
| | 60.00 | 0.489 | 23000 | 28000 | 40000 | 161000 | 191000 | 221000 | 250000 |
| | 65.00 | 0.534 | 24000 | 29000 | 42000 | 161000 | 191000 | 221000 | 250000 |
| | 71.00 | 0.582 | 27000 | 32000 | 47000 | 161000 | 191000 | 221000 | 250000 |
| 11 7/8 | 71.80 | 0.582 | 27000 | 32000 | 47000 | 164000 | 195000 | 226000 | 260000 |
| 13 3/8 | 54.50 | 0.380 | 17400 | 21000 | 30000 | 188000 | 223000 | 260000 | 290000 |
| | 61.00 | 0.430 | 20000 | 24000 | 35000 | 188000 | 223000 | 260000 | 290000 |
| | 68.00 | 0.480 | 21000 | 25000 | 37000 | 188000 | 223000 | 260000 | 290000 |
| | 72.00 | 0.514 | 23000 | 28000 | 40000 | 188000 | 223000 | 260000 | 290000 |
| | 77.00 | 0.550 | 34000 | 41000 | 60000 | 250000 | 300000 | 340000 | 390000 |
| | 80.70 | 0.580 | 36000 | 43000 | 63000 | 250000 | 300000 | 340000 | 390000 |
| | 85.00 | 0.608 | 36000 | 43000 | 63000 | 250000 | 300000 | 340000 | 390000 |
| | 86.00 | 0.625 | 37000 | 44000 | 65000 | 250000 | 300000 | 340000 | 390000 |
| 13 1/2 | 81.40 | 0.580 | 31000 | 37000 | 54000 | 242000 | 290000 | 330000 | 380000 |
| 13 5/8 | 88.20 | 0.625 | 37000 | 44000 | 65000 | 260000 | 310000 | 360000 | 410000 |
| 16 | 95.00 | 0.566 | 45000 | 54000 | 79000 | 360000 | 430000 | 490000 | 560000 |
| | 96.00 | 0.575 | 45000 | 54000 | 79000 | 360000 | 430000 | 490000 | 560000 |
| | 109.00 | 0.656 | 49000 | 59000 | 86000 | 360000 | 430000 | 490000 | 560000 |
| | 118.00 | 0.715 | 52000 | 62000 | 91000 | 360000 | 430000 | 490000 | 560000 |

- SMYS: Specified Minimum Yield Strength.
- The minimum, field target, and operational torque values apply to all grades of steel.
- Many factors influence torque application. To ensure that minimum torque is attained, a field target torque (optimum torque) 20% over minimum is recommended.
- An appropriate safety factor should be applied to these yield torque values.
- Buck-on torque values for Wedge 563™ connection are available at <http://premiumconnectiondata.tenaris.com/index.php>
- For other unlisted combinations of dimension and SMYS please contact premiumconnections@tenaris.com



For contact information, please visit
our website: www.tenaris.com