

ULTRA-DQX™

Threaded & Coupled Drilling with Casing Connection

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4 1/2" - 13 3/8"



Performance and Value

Recognizing the challenges of today's drilling environment, TMK IPSCO has combined our patented FullContact™ thread form with an API coupling for the ultimate blend of performance and value. The rugged ULTRA-DQX Connection was specifically designed for high RPM and high dogleg fatigue resistance in horizontal wells where rotating and reciprocating are necessary to reach the bottom. The ULTRA-DQX Connection features high tension strength as well as compression strength equal to that of the pipe body giving it excellent bending capacity while its torque-energized seal withstands the pressures of hydraulic fracturing.

Innovative Solutions

TMK IPSCO realizes that as drilling evolves, the stresses on tubulars are constantly increasing. Our team of technical experts is dedicated to engineering innovative connections to enable operators to tackle their most challenging targets. While traditional connections only offer strength in tension, every ULTRA™ Premium Connection is designed with our patented FullContact™ thread form which provides excellent tensile, compression and bending capacity translating into the flexibility necessary to navigate the curves of modern wells. The portfolio of ULTRA Premium Connections includes formidable threaded and coupled connections as well as slim-profile integral joint connections offering a range of options suited for every drilling application.

Global Strength

TMK IPSCO is one of the largest North American producers of welded and seamless pipe and premium connections dedicated to serving the oil and gas industry and many industrial markets. Our legacy of quality, industry-renowned customer service and focus on innovative products and services allow us to drive unparalleled value for our customers. TMK IPSCO is committed to be North America's energy tubular supplier of choice, with facilities strategically located in the key energy producing areas of North America. We operate eleven downstream pipe, processing and premium connection facilities complete with accessories.

As a part of OAO TMK, one of the world's largest pipe producers, we now offer an expanded range of products to meet all your energy tubular needs.



ULTRA-DQX Product Summary: Pipe and Connection Data

The ULTRA-DQX Threaded & Coupled Drilling with Casing Connection for High RPM Rotating & Drilling

| PIPE BODY | | | | | | | CONNECTION | | | | | J-55 | | J-55 | | L-80 | | | | P-110 | | | | Q-125 | | | | |
|---------------|----------------------|-----------------|-------------------|---------------|--------------|-----------------------------|--|----------------------|--------------------------|----------------|----------------|--------------------|----------------|------------------|-----------------------|---------------------|----------------|------------------|-----------------------|---------------------|----------------|------------------|-----------------------|---------------------|----------------|------------------|-----------------------|---------------------|
| Nominal OD in | Nominal Weight lb/ft | PE Weight lb/ft | Wall Thickness in | Nominal ID in | Drift Dia in | Nominal PBA in ² | Coupling Critical Section Area in ² | % Tensile Efficiency | % Compression Efficiency | Makeup Loss in | Coupling OD in | Coupling Length in | Yield Load lbs | Parting Load lbs | Optimal Torque ft-lbs | Yield Torque ft-lbs | Yield Load lbs | Parting Load lbs | Optimal Torque ft-lbs | Yield Torque ft-lbs | Yield Load lbs | Parting Load lbs | Optimal Torque ft-lbs | Yield Torque ft-lbs | Yield Load lbs | Parting Load lbs | Optimal Torque ft-lbs | Yield Torque ft-lbs |
| 4 1/2 | 10.50 | 10.23 | 0.224 | 4.052 | 3.927 | 3.009 | 4.602 | 100 | 100 | 3.772 | 5.000 | 7.544 | 165,500 | 213,400 | 2,900 | 4,600 | 240,700 | 275,800 | 3,600 | 5,800 | 331,000 | 365,500 | 4,500 | 7,200 | 376,100 | 398,100 | 4,900 | 7,900 |
| 4 1/2 | 11.60 | 11.35 | 0.250 | 4.000 | 3.875 | 3.338 | 4.602 | 100 | 100 | 3.772 | 5.000 | 7.544 | 183,600 | 236,700 | 3,300 | 5,300 | 267,000 | 306,000 | 4,300 | 6,800 | 367,200 | 405,400 | 5,400 | 8,600 | 417,200 | 441,600 | 6,000 | 9,500 |
| 4 1/2 | 12.60 | 12.24 | 0.271 | 3.958 | 3.833 | 3.600 | 4.602 | 100 | 100 | 3.772 | 5.000 | 7.544 | 198,000 | 255,300 | 3,700 | 5,900 | 288,000 | 330,000 | 4,800 | 7,700 | 396,000 | 437,300 | 6,100 | 9,800 | 450,100 | 476,300 | 6,800 | 10,800 |
| 4 1/2 | 13.50 | 13.04 | 0.290 | 3.920 | 3.795 | 3.836 | 4.602 | 100 | 100 | 3.772 | 5.000 | 7.544 | 211,000 | 272,000 | 4,000 | 6,400 | 306,800 | 351,600 | 5,200 | 8,400 | 421,900 | 465,900 | 6,700 | 10,800 | 479,400 | 507,400 | 7,500 | 12,000 |
| 4 1/2 | 15.10 | 14.98 | 0.337 | 3.826 | 3.701 | 4.407 | 4.602 | 100 | 100 | 3.772 | 5.000 | 7.544 | 242,400 | 312,600 | 4,800 | 7,600 | 352,600 | 404,000 | 6,400 | 10,200 | 484,800 | 535,400 | 8,300 | 13,200 | 550,900 | 583,100 | 9,200 | 14,800 |
| 5 | 15.00 | 14.87 | 0.296 | 4.408 | 4.283 | 4.374 | 5.841 | 100 | 100 | 4.097 | 5.563 | 8.194 | 240,600 | 307,900 | 5,000 | 8,000 | 349,900 | 399,000 | 6,500 | 10,400 | 481,200 | 529,100 | 8,300 | 13,200 | 546,800 | 576,800 | 9,100 | 14,700 |
| 5 | 18.00 | 17.93 | 0.362 | 4.276 | 4.151 | 5.275 | 5.841 | 100 | 100 | 4.097 | 5.563 | 8.194 | 290,100 | 371,300 | 6,400 | 10,200 | 422,000 | 481,100 | 8,400 | 13,500 | 580,200 | 638,000 | 10,900 | 17,500 | 659,300 | 695,600 | 12,200 | 19,500 |
| 5 | 21.40 | 21.30 | 0.437 | 4.126 | 4.001 | 6.264 | 5.841 | 93 | 100 | 4.097 | 5.563 | 8.194 | 321,200 | 407,800 | 7,800 | 12,500 | 467,300 | 529,800 | 10,500 | 16,900 | 642,500 | 703,200 | 13,800 | 22,100 | 730,100 | 767,500 | 15,500 | 24,800 |
| 5 | 23.20 | 23.08 | 0.478 | 4.044 | 3.919 | 6.791 | 5.841 | 86 | 100 | 4.097 | 5.563 | 8.194 | 321,200 | 407,800 | 8,600 | 13,700 | 467,300 | 529,800 | 11,600 | 18,600 | 642,500 | 703,200 | 15,300 | 24,600 | 730,100 | 767,500 | 17,200 | 27,500 |
| 5 | 24.10 | 24.03 | 0.500 | 4.000 | 3.875 | 7.069 | 5.915 | 84 | 100 | 4.222 | 5.563 | 8.444 | 325,300 | 412,900 | 9,000 | 14,300 | 473,200 | 536,500 | 12,200 | 19,600 | 650,600 | 712,200 | 16,100 | 25,800 | 739,400 | 777,200 | 18,100 | 29,000 |
| 5 1/2 | 15.50 | 15.35 | 0.275 | 4.950 | 4.825 | 4.514 | 6.297 | 100 | 100 | 4.122 | 6.050 | 8.244 | 248,300 | 315,400 | 5,200 | 8,300 | 361,100 | 409,700 | 6,700 | 10,800 | 496,500 | 543,800 | 8,600 | 13,800 | 564,300 | 593,400 | 9,500 | 15,200 |
| 5 1/2 | 17.00 | 16.87 | 0.304 | 4.892 | 4.767 | 4.962 | 6.297 | 100 | 100 | 4.122 | 6.050 | 8.244 | 272,900 | 346,800 | 5,900 | 9,500 | 397,000 | 450,400 | 7,800 | 12,500 | 545,900 | 597,800 | 10,100 | 16,100 | 620,300 | 652,300 | 11,200 | 17,900 |
| 5 1/2 | 20.00 | 19.81 | 0.361 | 4.778 | 4.653 | 5.828 | 6.297 | 100 | 100 | 4.122 | 6.050 | 8.244 | 320,600 | 407,300 | 7,400 | 11,800 | 466,300 | 529,000 | 9,900 | 15,800 | 641,100 | 702,100 | 12,900 | 20,600 | 728,500 | 766,100 | 14,400 | 23,100 |
| 5 1/2 | 23.00 | 22.54 | 0.415 | 4.670 | 4.545 | 6.630 | 6.297 | 95 | 100 | 4.122 | 6.050 | 8.244 | 346,300 | 436,400 | 8,600 | 13,900 | 503,800 | 568,400 | 11,800 | 18,800 | 692,700 | 755,100 | 15,500 | 24,800 | 787,100 | 824,800 | 17,400 | 27,800 |
| 6 5/8 | 20.00 | 19.49 | 0.288 | 6.049 | 5.924 | 5.734 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 315,300 | 394,000 | 7,800 | 12,600 | 458,700 | 514,600 | 10,200 | 16,400 | 630,700 | 684,200 | 13,100 | 21,000 | 716,700 | 748,300 | 14,500 | 23,200 |
| 6 5/8 | 23.20 | 22.19 | 0.330 | 5.965 | 5.840 | 6.526 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 358,900 | 448,400 | 9,400 | 15,100 | 522,100 | 585,700 | 12,500 | 20,000 | 717,900 | 778,800 | 16,200 | 26,000 | 815,800 | 851,700 | 18,100 | 29,000 |
| 6 5/8 | 24.00 | 23.58 | 0.352 | 5.921 | 5.796 | 6.937 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 381,500 | 476,700 | 10,200 | 16,400 | 555,000 | 622,600 | 13,700 | 21,900 | 763,100 | 827,800 | 17,800 | 28,600 | 867,100 | 905,300 | 19,900 | 31,900 |
| 6 5/8 | 24.60 | 24.21 | 0.362 | 5.901 | 5.776 | 7.123 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 391,700 | 489,400 | 10,600 | 16,900 | 569,800 | 639,300 | 14,200 | 22,800 | 783,500 | 850,000 | 18,600 | 29,700 | 890,300 | 929,600 | 20,800 | 33,200 |
| 6 5/8 | 28.00 | 27.65 | 0.417 | 5.791 | 5.666 | 8.133 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 447,300 | 558,800 | 12,600 | 20,100 | 650,600 | 729,900 | 17,100 | 27,400 | 894,600 | 970,500 | 22,500 | 36,100 | 1,016,600 | 1,061,400 | 25,300 | 40,400 |
| 6 5/8 | 29.00 | 28.57 | 0.432 | 5.761 | 5.636 | 8.405 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 462,300 | 577,500 | 13,100 | 21,000 | 672,400 | 754,300 | 17,900 | 28,600 | 924,500 | 1,003,000 | 23,600 | 37,800 | 1,050,600 | 1,096,900 | 26,500 | 42,300 |
| 6 5/8 | 32.00 | 31.20 | 0.475 | 5.675 | 5.550 | 9.177 | 10.110 | 100 | 100 | 4.261 | 7.390 | 8.522 | 504,800 | 630,600 | 14,600 | 23,400 | 734,200 | 823,700 | 20,000 | 32,100 | 1,009,500 | 1,095,200 | 26,600 | 42,500 | 1,147,200 | 1,197,800 | 29,900 | 47,800 |
| 7 | 23.00 | 22.63 | 0.317 | 6.366 | 6.241 | 6.655 | 9.501 | 100 | 100 | 4.461 | 7.656 | 8.922 | 366,100 | 454,700 | 9,300 | 15,000 | 532,400 | 595,100 | 12,400 | 19,900 | 732,100 | 791,700 | 16,100 | 25,800 | 831,900 | 866,500 | 18,000 | 28,700 |
| 7 | 26.00 | 25.66 | 0.362 | 6.276 | 6.151 | 7.549 | 9.501 | 100 | 100 | 4.461 | 7.656 | 8.922 | 415,200 | 515,800 | 11,200 | 17,900 | 603,900 | 675,000 | 15,100 | 24,200 | 830,400 | 898,000 | 19,800 | 31,700 | 943,600 | 982,900 | 22,200 | 35,500 |
| 7 | 29.00 | 28.72 | 0.408 | 6.184 | 6.059 | 8.449 | 9.501 | 100 | 100 | 4.461 | 7.656 | 8.922 | 464,700 | 577,300 | 13,100 | 20,900 | 676,000 | 755,500 | 17,800 | 28,600 | 929,400 | 1,005,100 | 23,600 | 37,700 | 1,056,200 | 1,100,100 | 26,400 | 42,300 |
| 7 | 32.00 | 31.67 | 0.453 | 6.094 | 5.969 | 9.317 | 9.501 | 100 | 100 | 4.461 | 7.656 | 8.922 | 512,500 | 636,600 | 14,900 | 23,800 | 745,400 | 833,100 | 20,400 | 32,700 | 1,024,900 | 1,108,400 | 27,100 | 43,400 | 1,164,700 | 1,213,100 | 30,500 | 48,800 |
| 7 | 35.00 | 34.58 | 0.498 | 6.004 | 5.879 | 10.172 | 9.501 | 93 | 100 | 4.461 | 7.656 | 8.922 | 522,500 | 642,700 | 16,600 | 26,600 | 760,000 | 843,800 | 23,000 | 36,800 | 1,045,100 | 1,123,900 | 30,600 | 49,000 | 1,187,600 | 1,231,700 | 34,400 | 55,100 |
| 7 | 38.00 | 37.26 | 0.540 | 5.920 | 5.795 | 10.959 | 9.501 | 87 | 100 | 4.461 | 7.656 | 8.922 | 522,500 | 642,700 | 18,200 | 29,100 | 760,000 | 843,800 | 25,300 | 40,500 | 1,045,100 | 1,123,900 | 33,800 | 54,100 | 1,187,600 | 1,231,700 | 38,100 | 60,900 |
| 7 5/8 | 26.40 | 25.56 | 0.328 | 6.969 | 6.844 | 7.519 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 413,600 | 508,900 | 11,000 | 17,600 | 601,500 | 668,000 | 14,400 | 23,000 | 827,100 | 889,700 | 18,400 | 29,500 | 939,900 | 975,000 | 20,400 | 32,700 |
| 7 5/8 | 29.70 | 29.04 | 0.375 | 6.875 | 6.750 | 8.541 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 469,800 | 578,000 | 13,300 | 21,400 | 683,300 | 758,800 | 17,800 | 28,400 | 939,500 | 1,010,700 | 23,100 | 36,900 | 1,067,700 | 1,107,500 | 25,700 | 41,200 |
| 7 5/8 | 33.70 | 33.04 | 0.430 | 6.765 | 6.640 | 9.720 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 534,600 | 657,800 | 16,000 | 25,700 | 777,600 | 863,500 | 21,700 | 34,700 | 1,069,200 | 1,150,200 | 28,400 | 45,500 | 1,215,000 | 1,260,400 | 31,800 | 50,900 |
| 7 5/8 | 35.80 | 35.56 | 0.465 | 6.695 | 6.570 | 10.460 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 575,300 | 707,900 | 17,700 | 28,300 | 836,800 | 929,300 | 24,100 | 38,600 | 1,150,600 | 1,237,700 | 31,800 | 50,900 | 1,307,500 | 1,356,300 | 35,600 | 57,000 |
| 7 5/8 | 39.00 | 38.05 | 0.500 | 6.625 | 6.500 | 11.192 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 615,600 | 757,400 | 19,300 | 31,000 | 895,400 | 994,400 | 26,500 | 42,400 | 1,231,100 | 1,324,400 | 35,100 | 56,100 | 1,399,000 | 1,451,300 | 39,400 | 63,000 |
| 7 5/8 | 42.80 | 42.39 | 0.562 | 6.501 | 6.376 | 12.470 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 685,900 | 844,000 | 22,200 | 35,500 | 997,600 | 1,107,900 | 30,600 | 49,000 | 1,371,700 | 1,475,700 | 40,800 | 65,300 | 1,558,800 | 1,617,100 | 45,800 | 73,400 |
| 7 5/8 | 45.30 | 44.67 | 0.595 | 6.435 | 6.310 | 13.141 | 13.385 | 100 | 100 | 4.742 | 8.500 | 9.485 | 722,700 | 889,300 | 23,700 | 37,900 | 1,051,300 | 1,167,500 | 32,800 | 52,500 | 1,445,500 | 1,555,000 | 43,700 | 70,000 | 1,642,600 | 1,704,000 | 49,200 | 78,800 |
| 7 5/8 | 47.10 | 46.73 | 0.625 | 6.375 | 6.250 | 13.744 | 13.385 | 97 | 100 | 4.742 | 8.500 | 9.485 | 736,200 | 893,700 | 25,000 | 40,000 | 1,070,800 | 1,178,600 | 34,700 | 55,600 | 1,472,300 | 1,572,100 | 46,400 | 74,300 | 1,673,100 | 1,725,800 | 52,300 | 83,600 |
| 8 5/8 | 32.00 | 31.10 | 0.352 | 7.921 | 7.796 | 9.149 | 16.943 | 100 | 100 | 4.742 | 9.625 | 9.485 | 503,200 | 609,600 | 15,200 | 24,300 | 731,900 | 804,500 | 20,200 | 32,400 | 1,006,300 | 1,073,400 | 26,300 | 42,100 | 1,143,600 | 1,178,600 | 29,300 | 46,900 |
| 8 5/8 | 36.00 | 35.14 | 0.400 | 7.825 | 7.700 | 10.336 | 16.943 | 100 | 100 | 4.742 | 9.625 | 9.485 | 568,500 | 688,800 | 18,300 | 29,200 | 826,900 | 908,900 | 24,700 | 39,500 | 1,136,900 | 1,212,700 | 32,400 | 51,900 | 1,292,000 | 1,331,600 | 36,300 | 58,100 |
| 8 5/8 | 40.00 | 39.29 | 0.450 | 7.725 | 7.600 | 11.557 | 16.943 | 100 | 1 | | | | | | | | | | | | | | | | | | | |

ULTRA-DQX™

Threaded & Coupled Drilling with Casing Connection

4 1/2" - 13 3/8"

For High RPM Rotating and Drilling

- Designed for high RPM and high dogleg fatigue resistance in horizontal wells where rotating and reciprocating are the only ways to reach bottom
- Superior high pressure gas leak resistance
- Pressure ratings exceed API minimum internal yield and collapse

FullContact™ Threads

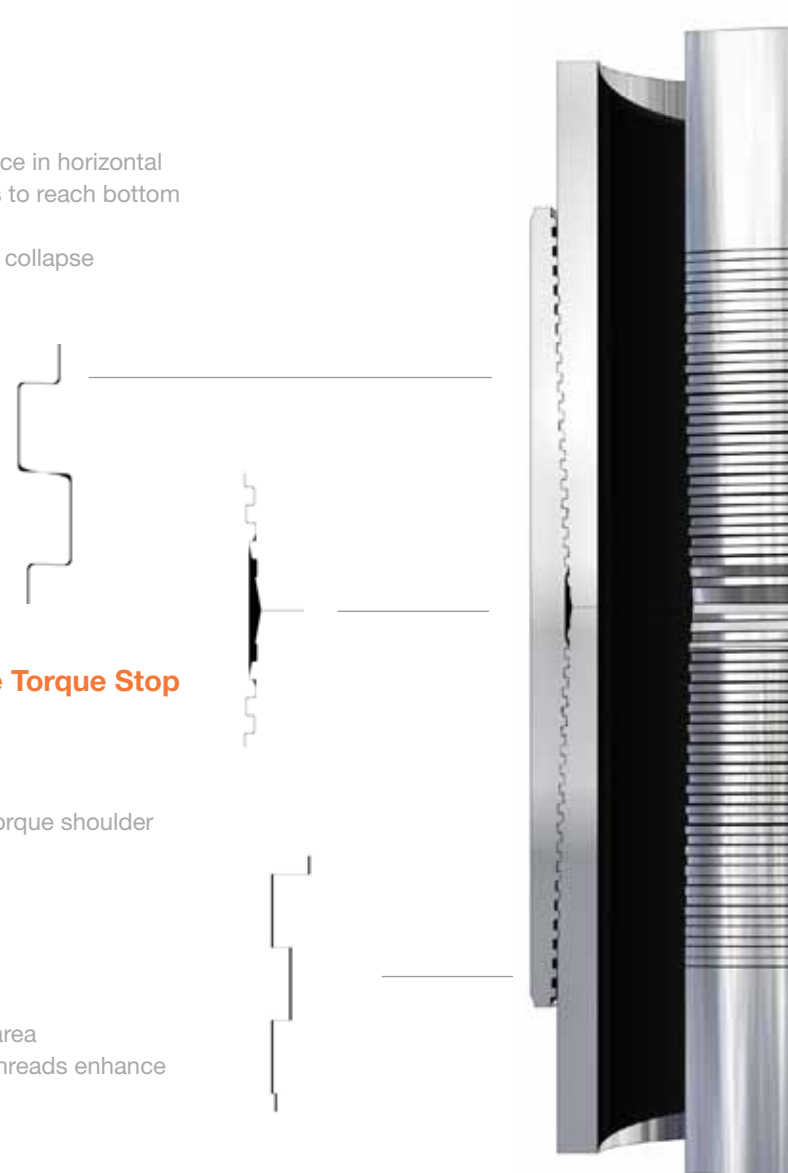
- Tension and compression efficiency
- High bending capacity and evenly distributed stress
- Deep, easy stabbing and quick, easy make-up
- Leak-tight thread sealing

Pin Nose to Pin Nose Positive Torque Stop

- Excellent torque resistance
- Torque energized metal seal
- Reduced coupling fatigue
- Verifiable make-up with positive torque shoulder
- Superior over-torque drift-ability
- Minimized flow turbulence

Run-Out Threads

- Maximum critical section area
- Low interference run-out threads enhance fatigue life



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