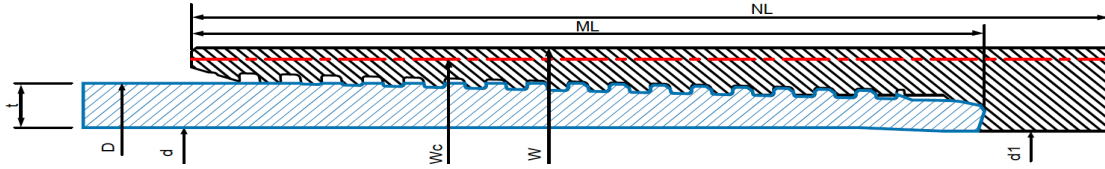


# TECHNICAL INFORMATION



**HSC MAX®**

|                      |             |
|----------------------|-------------|
| SIZE:                | 4 1/2"      |
| WEIGHT:              | 23.70 lb/ft |
| WALL THICKNESS:      | 0.560"      |
| DRIFT (API):         | 3.255"      |
| THREADS/INCH (TPI) : | 6           |



OUTSIDE DIA. (in): 4.500    INSIDE DIA. (in): 3.380    Plain End Weight: 23.59 lb/ft    Min. Wall Thickness: 87.5%

| MATERIAL YIELD STRENGTH (ksi) |                                         | 80    | N80   | 90    | 95    | 110   | C110  | 125   |
|-------------------------------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| PIPE BODY                     | MINIMUM YIELD STRENGTH (ksi)            | 80    | 80    | 90    | 95    | 110   | 110   | 125   |
|                               | MAXIMUM YIELD STRENGTH (ksi)            | 95    | 110   | 105   | 110   | 140   | 120   | 150   |
|                               | MINIMUM ULTIMATE TENSILE STRENGTH (ksi) | 95    | 100   | 100   | 105   | 125   | 115   | 135   |
|                               | PIPE BODY YIELD STRENGTH (klb)          | 555   | 555   | 624   | 659   | 763   | 763   | 867   |
|                               | INTERNAL YIELD PRESSURE (psi)           | 17420 | 17420 | 19600 | 20690 | 23960 | 23960 | 27220 |
|                               | NOMINAL CROSS -SECTIONAL AREA (sq-in)   | 6.932 | 6.932 | 6.932 | 6.932 | 6.932 | 6.932 | 6.932 |
|                               | COLLAPSE PRESSURE (psi)                 | 17430 | 17430 | 19610 | 20700 | 23970 | 23970 | 27240 |

| PREMIUM THREADED & COUPLED CONNECTION |                                      |        |        |        |        |        |        |        |
|---------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| CONNECTION                            | NOMINAL CONNECTION OD (in)           | 5.289  | 5.289  | 5.289  | 5.289  | 5.289  | 5.289  | 5.289  |
|                                       | NOMINAL CONNECTION ID (in)           | 3.350  | 3.350  | 3.350  | 3.350  | 3.350  | 3.350  | 3.350  |
|                                       | MAKE-UP LOSS (in)                    | 4.545  | 4.545  | 4.545  | 4.545  | 4.545  | 4.545  | 4.545  |
|                                       | COUPLING LENGTH (in)                 | 10.080 | 10.080 | 10.080 | 10.080 | 10.080 | 10.080 | 10.080 |
|                                       | EFFICIENCY                           |        |        |        |        |        |        |        |
|                                       | TENSION EFFICIENCY (% pipe body)     | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
|                                       | COMPRESSION EFFICIENCY (% pipe body) | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
|                                       | INTERNAL PRESSURE (% pipe body)      | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
|                                       | EXTERNAL PRESSURE (% pipe body)      | 100    | 100    | 100    | 100    | 100    | 100    | 100    |
|                                       | MAXIMUM LOAD COUPLING FACE (klb)     | 342    | 342    | 385    | 407    | 471    | 471    | 535    |

|                   |                 |                                    |       |       |       |       |       |       |       |
|-------------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| JOINT PERFORMANCE | STRENGTH        | TENSION WITH SEALABILITY (klb)     | 555   | 555   | 624   | 659   | 763   | 763   | 867   |
|                   |                 | COMPRESSION WITH SEALABILITY (klb) | 555   | 555   | 624   | 659   | 763   | 763   | 867   |
|                   | RESISTANCE      | INTERNAL PRESSURE (psi)            | 17420 | 17420 | 19600 | 20690 | 23960 | 23960 | 27220 |
|                   |                 | EXTERNAL PRESSURE (psi)            | 17430 | 17430 | 19610 | 20700 | 23970 | 23970 | 27240 |
|                   | MAXIMUM BENDING | STRUCTURAL (degree/100ft)          | 81    | 81    | 92    | 97    | 112   | 112   | 127   |
|                   |                 | WITH SEALABILITY (degree/100ft)    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |

| RECOMMENDED MAKE UP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0 |                 |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|
| REGULAR                                                                                   | MINIMUM (ft.lb) | 11450 | 11450 | 11750 | 11750 | 12600 | 12600 | 13450 |
|                                                                                           | OPTIMUM (ft.lb) | 12650 | 12650 | 13050 | 13050 | 14000 | 14000 | 14850 |
|                                                                                           | MAXIMUM (ft.lb) | 13850 | 13850 | 14350 | 14350 | 15400 | 15400 | 16250 |
| SHOULDERING TORQUE (ft.lb)                                                                | MINIMUM (ft.lb) | 640   | 640   | 660   | 660   | 700   | 700   | 750   |
|                                                                                           | MAXIMUM (ft.lb) | 8850  | 8850  | 9130  | 9130  | 9800  | 9800  | 10390 |
| DELTA TURN (turns)                                                                        | MINIMUM         | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
|                                                                                           | MAXIMUM         | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 | 0.130 |

The above information is for reference only, and is subject to change or modification without notice. Please contact HSC for the latest information.