RIGHT HAND THREAD

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR BARE BAR: B36E CUT</td>
<td>ASTM A722 TYPE II</td>
</tr>
</tbody>
</table>

**PHYSICAL PROPERTIES**

- **EFFECTIVE AREA:** 1.58 SQ.IN. (1019 SQ.mm)
- **ULTIMATE STRENGTH:** 150 KSI (1034 N/SQ.mm)
- **ULTIMATE LOAD:** 237 KIPS (1054 KN)
- **YIELD LOAD:** 191.2 KIPS (851 KN)
- **WEIGHT:** 5.56 LBS./FT. (8.27 Kg/m)
- **MAX. BAR Ø INCL. RIBS:** 1.63 IN. (41.4mm)
- **AVERAGE CORE Ø:** 1.40 IN. (35.6mm)
- **PITCH:** 0.709 IN. (18.0mm)
NOTES:
1. PLATE & PIPE GALVANIZED ACCORDING TO ASTM A123 AFTER WELDING.
2. DIMENSIONS AND TOLERANCES APPLY TO UNCOATED PLATES.
3. ENSURE THREADABILITY OF TAPPED HOLES IN COATED PLATES.
4. 3" SDR 17 HDPE PIPE U00055112 FITS OVER TUBING.
NOTES:
1. PLATE & PIPE GALVANIZED ACCORDING TO ASTM A123 AFTER WELDING.
2. DIMENSIONS AND TOLERANCES APPLY TO UNCOATED PLATES.
3. ENSURE THREADABILITY OF TAPPED HOLES IN COATED PLATES.
4. 3" SDR 17 HDPE PIPE U00055112 FITS OVER TUBING.

RECTANGULAR BEARING PLATE WITH EXIT PIPE FOR 1-3/8" (36mm) THREADBAR TO BE USED WITH HDPE PIPE

DEPT. 500.0 [127.0]  
5.000 [127.0]  
3.094 [78.6]  
B.C. 44.375 [111.1]  
9.500 [241.3]

3/8"-18 UNC DRILLED & TAPPED 0.75" [19.1] DEEP 4x90° P.LACES

1/8"  
3/4" NPT HALF COUPLER BLACK STEEL

2-7/8" x 3/16" WALL MECHANICAL TUBING
ASTM A36 MATERIAL
MECHANICAL TUBE MATERIAL: A512, A513 OR A519.

TOLERANCES: ±0.020 UNLESS NOTED
MATERIAL: SEE ABOVE
SCALE: 1/2

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
POST TENSIONING / REINFORCING UNIT PHONE: 830-739-1100
320 MARMON DRIVE - BOLINGBROOK, IL  FAX: 830-739-1405
NOTES:
1. PLATE & PIPE GALVANIZED ACCORDING TO ASTM A123 AFTER WELDING.
2. DIMENSIONS AND TOLERANCES APPLY TO UNCOATED PLATES.
3. ENSURE THREADABILITY OF TAPPED HOLES IN COATED PLATES.
4. 3" SDR 17 HDPE PIPE U00055112 FITS OVER TUBING.
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SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.

WASHER FOR NYLON CAPS

STAINLESS STEEL 316L BOLTS AND
WAHER FOR NYLON CAPS

<table>
<thead>
<tr>
<th>POS.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION (ALL PARTS 316L STAINLESS STEEL UNLESS NOTED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>00 00 771</td>
<td>3/8&quot;-16UNC HEX BOLT, 2-3/4&quot; LONG (1&quot; LONG THREAD)</td>
</tr>
<tr>
<td>2</td>
<td>00 00 772</td>
<td>3/8&quot;-16UNC HEX BOLT, 3-1/2&quot; LONG (1&quot; LONG THREAD)</td>
</tr>
<tr>
<td>3</td>
<td>00 00 774</td>
<td>TYPE A NARROW WASHER FOR 3/8&quot;-UNC BOLT</td>
</tr>
<tr>
<td>4</td>
<td>00 00 776</td>
<td>3/8&quot;-16UNC COUPLER, ZINC COATED</td>
</tr>
<tr>
<td>5</td>
<td>00 00 777</td>
<td>3/8&quot;-16UNC HEX NUT</td>
</tr>
<tr>
<td>6</td>
<td>00 00 778</td>
<td>5/16&quot;-18UNC HEX BOLT, 7/8&quot; LONG, ZINC PLATED</td>
</tr>
<tr>
<td>7</td>
<td>00 00 783</td>
<td>3/8&quot;-16UNC HEX BOLT, 3-1/4&quot; LONG (1&quot; LONG THREAD)</td>
</tr>
<tr>
<td>8</td>
<td>00 00 784</td>
<td>3/8&quot;-16UNC HEX BOLT, 4-1/4&quot; LONG (FULL THREAD)</td>
</tr>
<tr>
<td>9</td>
<td>00 00 789</td>
<td>3/8&quot;-16UNC CARRIAGE BOLT, 4-1/2&quot; LONG</td>
</tr>
<tr>
<td>10</td>
<td>00 00 790</td>
<td>3/8&quot;-16UNC CARRIAGE BOLT, 5-1/2&quot; LONG</td>
</tr>
</tbody>
</table>

NOTE:
The 316L S.S. BOLTS ARE SPECIAL ORDER. ALL WASHERS, HEX NUTS & COUPLERS HAVE
NO MARKINGS.

Dimensions: Inch

Quality Plan Number:

Stainless Steel 316L Bolts and Washer for Nylon Caps

Date: 08/04
Dwg: G. Maletzki
Chk: E.A.
App: K.S.

Drawing Number: 00 00 770

Scale: 1/3

Rev. Date
001 09/01/19 S.J.
002 09/26/20 S.J.

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Dywidag-Systems International, USA, Inc.
Post Tensioning / Reinforcing Unit Phone: 630-739-1100
320 Marmion Drive - Bolingbrook, IL Fax: 630-739-1405
NOTES:

1. COUPLERS ALSO SUITABLE FOR GRADE 160 THREADBARS.
2. I.D. DEVIATES FROM STANDARD THREADFORM DRAWING.

<table>
<thead>
<tr>
<th>NOMINAL SIZE</th>
<th>1-3/8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART NUMBERS</td>
<td>FOR COUPLERS: 36mm</td>
</tr>
<tr>
<td>WITHOUT SET SCREWS</td>
<td>B36E30710</td>
</tr>
<tr>
<td>O.D. (IN./mm)</td>
<td>2.500/63.5</td>
</tr>
<tr>
<td>I.D. (IN./mm)</td>
<td>1.433/36.4</td>
</tr>
<tr>
<td>L (IN./mm)</td>
<td>8.750/222.3</td>
</tr>
<tr>
<td>THREADFORM:</td>
<td>8341/722</td>
</tr>
<tr>
<td>TOLERANCE FOR:</td>
<td></td>
</tr>
<tr>
<td>O.D. (IN.)</td>
<td>± .250</td>
</tr>
<tr>
<td>I.D. (IN.)</td>
<td>± .004</td>
</tr>
<tr>
<td>L (IN.)</td>
<td>± .16</td>
</tr>
<tr>
<td>WEIGHT (LBS.)</td>
<td>10.00</td>
</tr>
</tbody>
</table>
PRESSURE RATED: 150 PSI
1/2" NPT PIPE NIPPLES

PRESSURE RATED: 150 PSI

MATERIAL:
SCH 40
BLACK WELDED STEEL

SCALE
1:1

LENGTH VARIES

1/2" NPT THREAD TYP.
3/4" NPT PIPE NIPPLES

PRESSURE RATED: 150 PSI

DIMENSIONS: INCH (mm)

QUALITY PLAN NUMBER: 0000000020

MATERIAL:
SCH 40
BLACK WELDED STEEL

SCALE
1:1

REV. DATE NAME FORM

PART NUMBER: 00 00 878

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405
3/4" NPT NYLON PLUG

PRESSURE RATED: 150 PSI

DIMENSIONS: INCH (mm)
mm FOR REFERENCE ONLY

WEIGHT  
REV.  DATE  NAME
.009  LBS.

QUALITY PLAN NUMBER:

MATERIAL:
NYLON 6
COLOR: WHITE

SCALE  
1:1

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100  FAX: 630-739-1405

DRAWING NUMBER:
00 00 849
1/2" NPT, 14 THREADS PER INCH, 0.53" THREAD ENGAGEMENT

PRESSURE RATED: 150 PSI
3/4" NPT, 14 THREADS PER INCH, 0.55" THREAD ENGAGEMENT

PRESSURE RATED: 150 PSI

3/4" BALL VALVE

0.787 [20.0] Min. ID
1.220 [31.0] Hex
2.600 [63.5]
3.474 [88.2]
4.723 [120.0]

DIMENSIONS: INCH (mm)
mm FOR REFERENCE ONLY

WEIGHT
0.77 LBS.

MATERIAL: BRASS

SCALE
3/4" = 1"
MATERIAL: 3" SDR 17 HDPE PIPE.

SPECIFICATIONS:
1. PIPE SHALL BE OF HIGH-DENSITY POLYETHYLENE AND SHALL HAVE A MAXIMUM DIMENSION RATIO (DR) OF 17 AS ESTABLISHED BY EITHER ASTM D3035 OR ASTM F714, AS APPROPRIATE FOR MANUFACTURING PROCESS USED.
2. PIPE SHALL HAVE A MINIMUM PRESSURE RATING OF 125 PSI.
3. MEETS REQUIREMENTS OF ASTM D3350 WITH A MINIMUM CELL CLASS OF 445574C.
4. CONTAINS ANTIOXIDANTS WITH A MINIMUM OXIDATIVE-INDUCTION TIME (OIT) ACCORDING TO ASTM D3895 OF 40 MINUTES.
5. REMOLDED FINISHED MATERIAL HAS A MINIMUM FAILURE TIME OF THREE HOURS WHEN TESTED FOR STRESS CRACK RESISTANCE USING ASTM F2136 AT AN APPLIED STRESS OF 348 PSI.
6. MINIMUM BEND RADIUS = 20 FT.
MATERIAL: 3” SDR 17 HDPE PIPE.

SPECIFICATIONS:
1. PIPE SHALL BE OF HIGH-DENSITY POLYETHYLENE AND SHALL HAVE A MAXIMUM DIMENSION RATIO (DR) OF 17 AS ESTABLISHED BY EITHER ASTM D3035 OR ASTM F714, AS APPROPRIATE FOR MANUFACTURING PROCESS USED.
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6. MINIMUM BEND RADIUS = 20 FT.
INSTALLATION PROCEDURE:

(SEE MANUFACTURER INSTRUCTION MANUAL FOR DETAILED INSTRUCTIONS)

1. CUT PIPE ENDS PRECISELY AT RIGHT ANGLES TO THE PIPE AXIS.
2. CLEAN BOTH PIPE ENDS CAREFULLY.
3. SCRAP BOTH PIPE ENDS AS REQUIRED TO REMOVE THE OXIDE LAYER COMPLETELY.
4. CLEAN BOTH PIPE ENDS WITH CONCENTRATED ISOPROPYL ALCOHOL.
5. USE REROUNDING TOOLS TO CORRECT OVAL PIPE IF NEEDED.
6. USE ALIGNMENT CLAMPS TO SECURE THE ALIGNMENT OF CONNECTED PIPES.
7. PROVIDE SUPPORT TO THE PIPE AND COUPLER TO PREVENT ANY MOVEMENT.
8. ENSURE THERE IS NO EXISTING GAPS BETWEEN COUPLER AND PIPE FACE.
9. ATTACH LEADS OF THE FUSION PROCESSOR TO THE COUPLER.
10. SCAN THE BARCODE ON THE COUPLER AND CONFIRM THE COUPLER'S SIZE ON THE PROCESSOR SCREEN.
11. INITIATE FUSION PROCESS.
12. UNPLUG THE LEADS AS SOON AS THE FUSION PROCESS ENDS.
13. CHECK COOLING TIME OF THE PROVIDED COUPLER BASED ON COUPLER'S SIZE.
14. DO NOT ALLOW MOVEMENT OR APPLIED PRESSURE ON THE JOINTS BEFORE COOLING TIME ENDS.

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CUT TO WIDTH IN FIELD AS NEEDED (IN THIS DIRECTION)

CLOSED TAB

1.5" [38.1mm]

LENGTH VARIES TO FIT PIPE SIZE

TOP VIEW

CLOSED TAB

1.5" [38.1mm]

END VIEW

NOT TO SCALE

NOTE:
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>STRAND SYSTEM</th>
<th>BAR SYSTEM</th>
<th>HEAT SHRINK SLEEVE SIZE</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2&quot; IPS DR 17</td>
<td>7-0.6&quot;</td>
<td>1&quot;, 1 1/4&quot;, 1 3/8&quot;</td>
<td>KLNN/L 63-450 BK</td>
<td>U00039063</td>
</tr>
<tr>
<td>3&quot; SDR 17</td>
<td>12-0.6&quot;</td>
<td>1 3/4&quot;, 1 3/8&quot;</td>
<td>KLNN/L 90-450 BK</td>
<td>U00039090</td>
</tr>
<tr>
<td>4&quot; SDR 17</td>
<td>19-0.6&quot;</td>
<td>2 1/2&quot;, 3&quot;</td>
<td>KLNN/L 115-450 BK</td>
<td>U00039115</td>
</tr>
<tr>
<td>5&quot; SDR 17</td>
<td>27-0.6&quot; &amp; 31-0.6&quot;</td>
<td></td>
<td>KLNN/L 125-450 BK</td>
<td>U00039125</td>
</tr>
</tbody>
</table>

KLNN HEAT SHRINK SLEEVE

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320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405