**Material List**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>68 12 248</td>
<td>STANDARD STEEL</td>
<td>3/4&quot; SCH 40 STEEL PIPE, 00 00 878</td>
</tr>
<tr>
<td>68 12 254</td>
<td>STANDARD SPIRAL</td>
<td>3/4&quot; NPT SPR SPE WELD, OD = 3.500 [89mm], WALL = .206 [5.2mm]</td>
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<tr>
<td>68 12 272</td>
<td>3&quot; NPT X 1/2&quot; NPT</td>
<td>3/4&quot; NPT SCH 40 STEEL PIPE NIPPLE, LENGTH AS REQUIRED, 3/4&quot; NPT BRASS BALL VALVE, 00 00 638</td>
</tr>
<tr>
<td>68 12 270A</td>
<td>3&quot; NPT X 1/2&quot; NPT</td>
<td>3/4&quot; NPT SCH 40 STEEL PIPE NIPPLE, LENGTH AS REQUIRED, 3/4&quot; NPT BRASS BALL VALVE, 00 00 638</td>
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**Installation Procedure**

1. **Prepare the Multi-plane Anchor, Spiral and PE Trumpet**. Use Premium 100% Silicone between MPA and Spiral and MPA aligned.

2. **Connect the 3/4" NPT Pipe Nipple Assembly** to the PE Trumpet. Use Premium 100% Silicone between MPA and Spiral and MPA aligned.

3. **Check the Wedge Plate for Rust, Dirt and Grit. Clean** wedge holes with wire brush if necessary. Lightly grease or oil wedge holes. Replace 3/4" Pipe with 3/4" NPT Brass Ball Valve, 00 00 638, After Flexible Filler has Set. Flexible Filler can be used as an injection vent only. Use a drilled hole into pipe nipple and drill hole in PE Trumpet using specified cone drill tool. EXPANSE PLUMBING SYSTEMS INC., 200 MELROSE AVENUE, BURLINGTON, CT 06013, PHONE: 203-757-4690, FAX: 203-757-4699.
SECTION X-X

NOTES FOR GALVANIZING PARTS:
1. AFTER CASTING IS STRIPPED, GRIND AND TOUCH UP TOP AND BOTTOM SURFACES AS NECESSARY TO ELIMINATE ANY PARTING LINES OR UNEVEN AREAS.
2. GALVANIZE ACCORDING TO ASTM A123 AND TAKE CARE HOW CASTINGS ARE STORED TO PREVENT RUST.
3. DRILL & TAP BOLT HOLES AND GROUT PORTS AND MACHINE GROOVE IN BOTTOM OF ANCHOR AND SPRAY THEM WITH 7INCH RICH PAINT ACCORDING TO ASTM A780, ENSURE THREADABILITY.

VIEW Y-Y

SECTION A-A

12-0.6"/15-0.5" MULTI-PLANE ANCHOR WITH TWO GROUT PORTS-GALV.

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405
NOTES:
1. SPIRAL IS MADE FROM STANDARD 
   #5 REBAR, NO PART NUMBER 
   MARKING IS SHOWN.
2. KEEP SPIRAL AND MPA AXIS 
   ALIGNED, IF USING SIDE PORT, 
   ROTATE SPIRAL TO CLEAR.

NO. OF FULL TURNS: 7
DEVELOPED LENGTH: 22'-6" ±1/4 IN.
WEIGHT: 23.5
DETAIL A
THREAD FITS INTO 12-0.6 MPa CASTING (SEE DRAWING 68 12 216)

SECTION A-A

MATERIAL SPECIFICATIONS:
HIGH-DENSITY POLYETHYLENE, CONFORMING TO THE FOLLOWING:
1. MEETS REQUIREMENTS OF ASTM D3350 WITH A MINIMUM CELL CLASS OF 445574C.
2. CONTAINS ANTIOXIDANTS WITH A MINIMUM OXIDATIVE-INDUCTION TIME (OIT) ACCORDING
   TO ASTM D3395 OF 40 MINUTES.
3. REMOVED FINISHED MATERIAL HAS A MINIMUM FAILURE TIME OF 24 HOURS WHEN
   TESTED FOR STRESS CRACK RESISTANCE USING ASTM F2136 AT AN APPLIED STRESS
   OF 600 PSI.

MARKING "DYWIDAG", "68 12 587" AND "85mm"—RAISED LETTERS 3/8" HIGH.

FAX: 630-739-1405
PHONE: 630-739-1100

DYWIDAG-SYSTEMS INTERNATIONAL USA, INC.
POST TENSIONING, REINFORCING UNIT, PHONE: 630-739-1100
330 MARMON DRIVE - BOLINGBROOK, IL 60440-2901, FAX: 630-739-1405

SEE SECTION A-A

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 44574C.
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:
CLOSED CELL NEOPRENE BLEND SPONGE
POLYMER: NEOPRENE/EPDM/SBR
ASTM-D-1056-00-SA2
TEMPERATURE RANGE: -40 TO +200 DEG. F
TENSILE STRENGTH: 100 PSI
ELONGATION: 150%

NEOPRENE FOAM RUBBER STRIPS COME IN 50 FT. ROLLS
**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>
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</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>
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<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>
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<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>
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<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>
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</tbody>
</table>

**KLNN HEAT SHRINK SLEEVE**

**DIMENSIONS:** INCH (mm)

**QUALITY PLAN NUMBER:**

**REV. DATE NAME**

**PART NUMBERS:**

**MATERIAL:** POLYOLEFIN

**MEETS CODE SPEC 900-2.2.1.1 FOR FLEXIBLE FILLER**

**SCALE:** XX

**DRAWING NUMBER:** U00039000

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.

320 MARMON DRIVE - BOLINGBROOK, IL 60440

PHONE: 630-739-1100  FAX: 630-739-1405
0.6" BARE 270 KSI STRAND

NOTES:
1. NO PART NUMBER OR IDENTIFICATION MARKS ON STRAND.
2. RUST PRODUCING VISIBLE FITTING TO THE UN-AYED EYE IS NOT ALLOWED.

MATERIAL:
0.6" 270 KSI LOW RELAX STRAND
ASTM A416
NOTES:
1. SHARP EDGES MUST BE BROKEN.
2. VIBRATE TO SURFACE FINISH OF 63 μIN. MAX.
3. DIP IN SQ70 OIL OR EQUIV. FOR CORROSION PROTECTION.
4. MAKE SURE THAT THE BUTTRESS THREAD IS ORIENTED IN THE DIRECTION SHOWN ON THIS DRAWING.
5. NO STAMPED PART NUMBER

MATERIAL: 12L14
ALL HARDENED

DIMENSIONS: INCHES/ mm
 mm FOR REFERENCE ONLY

QUALITY PLAN NUMBER: Q8000005000

3-PART WEDGE FOR 0.6" STRAND

DATE: 06-01-18  DWS: G. MALECKI  CHK: C.R.  APP: S.L.

TOLERANCES: ±0.010 in.
UNLESS NOTED

WEIGHT: 0.19 LBS.

SCALE: 2:1

MATERIAL: SEE ABOVE

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
POST TENSIONING / REINFORCING UNIT  PHONE: 630-739-1100
320 MARMON DRIVE - BOLINGBROOK, IL  FAX: 630-739-1405
STAINLESS STEEL 316L BOLTS AND WASHER FOR NYLON CAPS

<table>
<thead>
<tr>
<th>POS.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>00 00 771</td>
<td>3/8&quot;-18UNC 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;-18UNC 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;-18UNC COUPLER, ZINC COATED</td>
</tr>
<tr>
<td>5</td>
<td>00 00 777</td>
<td>3/8&quot;-18UNC 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;-18UNC 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;-18UNC HEX BOLT, 4-1/4&quot; LONG (FULL THREAD)</td>
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<tr>
<td>9</td>
<td>00 00 789</td>
<td>3/8&quot;-18UNC CARRIAGE BOLT, 4-1/2&quot; LONG</td>
</tr>
<tr>
<td>10</td>
<td>00 00 790</td>
<td>3/8&quot;-18UNC CARRIAGE BOLT, 5-1/2&quot; LONG</td>
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</table>

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

WASHER FOR NYLON CAPS
STAINLESS STEEL 316L BOLTS AND NYLON CAPS

KEEPER PLAT 68 04 2637 ON WEDGE PLATE 68 04 2534 & NYLON CAP 68 04 2539 ON FLAT ANCHOR 68 04 2548
POCKET FORMER 68 04 2640 ON FLAT ANCHOR 68 04 2548

NYLON BAR CAP B36E50700 OR 50700A ON GALV. BEARING PLATE B26E22510, 22610, 22700, 22800, B32E22510, 22610, 22700, 22800, B36E22410, 22420, 22910, 22510, 22610, 22700, 22800 & NYLON BAR CAP B36E50700 OR 50700A ON GALV. BEARING PLATE B66E22700

NYLON BAR CAP B46W50700 OR 50700A ON GALV. BEARING PLATE B46E22700 & B46E22800

RE: 11/01/19 S.I.
06/28/20 S.I.

DRAWING NUMBER: 00 00 770
3/4" NPT PIPE NIPPLES

PRESSURE RATED: 150 PSI

MATERIAL: SCH 40 BLACK WELDED STEEL

SCALE: 1:1
3/4" NPT, 14 THREADS PER INCH, 0.55" THREAD ENGAGEMENT

PRESSURE RATED: 150 PSI

MATERIAL: BRASS

DIMENSIONS: INCH (mm) FOR REFERENCE ONLY

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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<tr>
<td>Hex</td>
<td>0.787 [20.0]</td>
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<tr>
<td>Min. ID</td>
<td>1.220 [31.0]</td>
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<tr>
<td>1.220 [31.0] Hex</td>
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</tr>
<tr>
<td>2.500 [63.5]</td>
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<tr>
<td>3.474 [88.2]</td>
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</tr>
<tr>
<td>4.723 [120.0]</td>
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WEIGHT: 0.77 LBS.

DATE: 02/08/19

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3/4" NPT NYLON PLUG

DIMENSIONS: INCH (mm) [FOR REFERENCE ONLY]

QUALITY PLAN NUMBER:

WEIGHT .009 LBS.

REV. DATE NAME

PART NUMBER: 00 00 849

MATERIAL: NYLON 6
COLOR: WHITE

SCALE 1:1

DRAWING NUMBER: 00 00 849

PRESSURE RATED: 150 PSI
1/2" NPT PIPE NIPPLES

LENGTH VARIES

1/2" NPT THREAD TYP.

Pressure rated: 150 PSI
1/2" NPT, 14 THREADS PER INCH, 0.53" THREAD ENGAGEMENT

PRESSURE RATED: 150 PSI

1/2" BALL VALVE

MATERIAL: BRASS

SCALE: 3/4" = 1"
1/2" NPT NYLON PLUG

PRESSURE RATED: 150 PSI
3/4" NPT PIPE NIPPLES

LENGTH VARIES

3/4" NPT THREAD TYP.

PRESSURE RATED: 150 PSI
3/4" NPT Female Coupler

Pressure rated: 150 PSI
3/4" NPT 90° ELBOW, FEMALE-FEMALE

PRESSURE RATED: 150 PSI

MATERIAL: SCH 40 BLACK STEEL

SCALE: 1:1

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY

QUALITY PLAN NUMBER: Q000000020P

REV. DATE NAME EDN

PART NUMBER: 00 00 880

DRAWING NUMBER: 00 00 880

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

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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
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. INITIAL 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.
WELDING OPERATIONS:
DRILL A HOLE USING SPECIFIED CONE DRILL TOOL WHEREVER NEEDED IN HDPE PIPE. HEAT UP HDPE GROUT PORT AND THE HOLE IN DUCT FOR ABOUT 10 SECONDS USING PES-TEC WELDING EQUIPMENT. RELEASE THE GROUT PORT AND PRESS INTO THE HOLE IN DUCT BY HAND FOR 15 SECONDS.

MATERIAL: POLYETHYLENE
COLOR: BLACK (UV PROTECTED)
USAGE: FOR SMOOTH HDPE PIPE
PRESSURE RATED: 150 PSI

3/4" NPT THREAD

3/4" NPT PE PORT

DIMENSIONS: INCH [mm]   QUALITY PLAN NUMBER:
mm FOR REFERENCE ONLY

TOLERANCES: ±0.020 UNLESS NOTED
WEIGHT 0.046 LBS.

MATERIAL: SEE ABOVE
SCALE 1:1

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