**CENTER-TO-CENTER and EDGE-TO-CENTER DISTANCES for APTS/AMTS15 ANCHORS**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Rev.</th>
<th>Date</th>
<th>L.C.</th>
<th>T.C.</th>
<th>Drawn</th>
<th>Checked</th>
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**CONCRETE CLASS f'_c [psi [MPa]]**

<table>
<thead>
<tr>
<th>Material</th>
<th>Treatment</th>
<th>Code</th>
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<tbody>
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<td><strong>A</strong></td>
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<td><strong>B</strong></td>
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<td><strong>C</strong></td>
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<td>4 [115]</td>
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**DISTANCES inch [mm]**

**AMTS15 system**

**4APTS15 system**
NOTE:
- This drawing is not intended for manufacturing purposes;
- Special order;
- 150 psi rated;
- Temporary item

Part # : 00-01-03-P

INCH [mm] FOR REFERENCE ONLY

Dimensions: [_inches]

Material: SCHEDULE 80 PVC

Treatment:

Title: LASCO Fittings Inc.
1/2" NPT PIPE NIPPLE

Drawn: F.MORAGLIA
Checked: T.CICCONE

Date: 07/18/2016

Part # : 00-01-03-P
Code: 205060

NOTE:
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- Special order;
- 150 psi rated;
- Temporary item

1/2" NPT PIPE NIPPLE

Material: SCHEDULE 40 STEEL

Part #: 00-01-03-M

Dimensions: -

Date: 07/18/2016

Rev. Date Description Drawn Checked
0 07/18/16 - -

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NOTE:
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- All dimensions are measured;
- 150 psi rated;
- Temporary item

Title: Mueller Streamline Co. 1/2" NPT BALL VALVE

coupling with 1/2" NPT PIPE NIPPLE 00-01-03

Part #: 00-01-04
Code: 107-133

Check: T.C.
Date: 07/18/16
Material: SCHEDULE 40 PVC
NOTE:
- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated
NOTE:

- This drawing is not intended for manufacturing purposes;
- Special order;
- 150 psi rated;
- Temporary item

Material: SCHEDULE 80 PVC

Title: LASCO Fittings Inc.

3/4" NPT PIPE NIPPLE
NOTE:
- This drawing is not intended for manufacturing purposes;
- Special order;
- 150 psi rated;
- Temporary item

Material: SCHEDULE 40 STEEL
Treatment: -
Title: 3/4" NPT PIPE NIPPLE

Date: 07/18/2016
Dimensions: -
Part #: 00-03-01-M
Code: -
NOTE:

- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated;
- Temporary item

Title: **Mueller Streamline Co. 3/4" NPT BALL VALVE**
coupling with 3/4" NPT PIPE NIPPLE 00-03-01

Material: SCHEDULE 40 PVC

Dimensions: [INCH [mm]

---

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- 150 psi rated

Material: High Density Polyethylene - according to ASTM D3350

Title: CAPLUGS (Buffalo N.Y.) 3/4" NPT PLUG for ANCHOR

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NOTE:
- NO stamped marking, traceability given on delivering boxes

Material: Steel AISI 12L14 - according to ASTM A108
Treatment: Carburizing + Tempering + Stress Relieving

Title: 3-PARTS WEDGE

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1111 KANE CONCOURSE, S.TE 200 - BAY HARBOR ISLAND - 33154 FL

NOTE: NO stamped marking, traceability given on delivering boxes.
NOTE:

- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated

**Material:** Polyethylene - according to ASTM D3350

**Treatment:**

- GTI 21mm HOSE for PT SYSTEM

**Dimensions:**

- Ø0.83" [Ø21mm]
- Ø1.1" [Ø28mm]

**Title:** GTI 21mm HOSE for PT SYSTEM

**Date:** 07/21/2016

**Part #:** 00-07-03

**Code:** 220044

**Checked:** T.CICCONE

**Drawn:** L.CIVATI

**Description:**

INCH [mm] FOR REFERENCE ONLY
**INSTALLATION**

**Preparing the Hole**
1. Mark the corrugated duct with the location of the Grout Port.
2. Drill a 7/8" [22mm] hole in the duct.
3. Clean hole and Grout Port.

**Preparing the Socket Welding Device**
4. Confirm that Socket Welding Device is cool and unplugged.
5. Mount correct adapter on Socket Welding Device.
6. Place Socket Welding Device in the cradle.
7. Connect the Socket Welding Device to the power source.
8. Allow to Socket Welding Device to reach its working temperature.

**The Welding Process**
9. Simultaneously, insert male adapter of Socket Welding Device into drilled hole and place Grout Port into female adapter.
10. Apply light pressure for 20 – 25 seconds by pushing the Grout Port with the palm of hand.
11. Simultaneously, remove Socket Welding Device from drilled hole and Grout Port from female adapter.
12. Insert Grout Port into hole until the shoulder is reached. This operation should be carried out as quickly and carefully as possible, within 5 seconds.
13. Firmly hold the pieces together for a minimum of 10 seconds. Ensure that the region of the weld is not subjected to any force during this time.

**Cooling**
14. Allow the duct and Grout Port to cool for a minimum of 4 minutes. After the cooling time has finished, the Grout Port is connected.

---

**NOTE:**
- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated

---

**SECTION A-A**

**GTI 21mm PP INLET/OUTLET PORT for PT SYSTEM**
GTI 21mm-3/4" NPT ADAPTOR

NOTE:
- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated;
- Temporary item

Material: Polypropylene - according to ASTM D4101
**NOTE:**
- This drawing is not intended for manufacturing purposes;
- All dimensions are measured.

**GTI 21mm hose plug**

**Material:**
High Density Polyethylene - according to ASTM D3350
Material: GR270 - according to ASTM A416

Title: 7 WIRE STEEL STRAND 0.6"

Dimensions: [INCH [mm]

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ELEVATION

SECTION A-A

AS LONG AS REQUIRED

Material: Coated Polyolefin Backing - according to FDoT Tab.2.2.1.8-1 Sec.960

Treatment: CANUSA-CPS HEAT SHRINK WRAP for INTERNAL PT SYSTEM

NOTE:
- This drawing is not intended for manufacturing purposes;
- Heat shrink wrap meets or exceeds FDoT requirements (Table 2.2.1.8-1 Section 960).

INSTALLATION

Surface Preparation
1. Lightly abrade the coupler (or trumpet) and duct in the zones expected to be covered with heat shrink tape.
2. Wipe clean the coupler (or trumpet) and duct to remove foreign contaminants. Ensure that the components are dry before cleaning.

Installation
3. Starting at least 75 mm [3"] before the coupler (or trumpet) begin wrapping the tape around the joint ensuring a minimum 50% spiral overlap. Ensure that the powdered tape side is places onto the pipe. Remove any release liners.
4. Continue to wrap the tape till at least 75 mm after the coupler (or trumpet).
5. Warm the tape end and press down firmly.
6. Using the appropriate sized heat gun or torch, begin at the edge of the tape and heat circumferentially around the joint, working back to the other edge.
7. Allow the shrink tape to cool for two hours prior to usage.

Inspection
8. Check the full contact of tape with the coupler [or trumpet] and duct.
9. Check that no cracks or holes are present in shrink tape backing.
10. Check that adhesive flows beyond tape edges.

Dimensions:
- 0.05" [1.15mm]
- 2.95" [75mm]