### CONCRETE CLASS f' psi [MPa]

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NOTE:

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

Material:
SCHEDULE 40 STEEL

Treatment:

Title:
1/2" NPT PIPE NIPPLE

Part #: 00-01-03-M

TENSA AMERICA LLC - www.tensaamerica.com - PHONE: +1 305-866-9917
1111 KANE CONCOURSE, S.TE 200 - BAY HARBOR ISLAND - 33154 FL

Date: 07/18/2016
Dimensions: INCH [mm]

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NOTE:

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

Material: SCHEDULE 40 STEEL
Title: 1/2" NPT BALL VALVE
coupling with 1/2" NPT PIPE NIPPLE 00-01-03-M

Legend:
- INCH [mm] FOR REFERENCE ONLY

Date: 04/05/2018
Part #: 00-01-04-M
Code: -

First issue
L.C.
T.C.

Drawn: L.CIVATI
Checked: T.CICCONE

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NOTE:

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- All dimensions are measured;
- 150 psi rated

Title: CAPPLUGS (Buffalo N.Y.) 1/2" NPT PLUG for PROTECTION CAP

Material: High Density Polyethylene - according to ASTM D3350

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NOTE:

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

Material: SCHEDULE 40 STEEL

Title: 1/2" NPT FEMALE PLUG coupling with 1/2" NPT PIPE NIPPLE 00-01-03-M

TENSA AMERICA LLC
1111 KANE CONCOURSE, S.TE 200 - BAY HARBOR ISLAND - 33154 FL
www.tensaamerica.com - PHONE: +1 305-866-9917

Drawn: L.CIVATI
Checked: T.CICCONE

04/05/2018

00-01-06
NOTE:

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

Material: SCHEDULE 40 STEEL

Title: 3/4" NPT PIPE NIPPLE

Date: 07/18/2016

Part #: 00-03-01-M

Description

07/18/16 First issue L.C. T.C. Dimensions: INCH [mm] FOR REFERENCE ONLY Part #: 00-03-01-M Code: -

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

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NOTE:

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

Material: SCHEDULE 40 STEEL

Title: 3/4" NPT BALL VALVE coupling with 3/4" NPT PIPE NIPPLE 00-03-01-M

Date: 04/05/2018

Dimensions: [mm] FOR REFERENCE ONLY

Part # : 00-03-02-M

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NOTE:

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

**TOP VIEW**

**SECTION A-A**

**BOTTOM VIEW**

**NOTE:**

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

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

**Title:**
CAPLUGS (Buffalo N.Y.) 3/4” NPT PLUG for ANCHOR
NOTE:
- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated;

Material: Schedule 40 Steel

3/4" NPT Female Plug coupling with 3/4" NPT Pipe Nipple 00-03-01-M

TENSA AMERICA
1111 Wharf Avenue, Suite 200 - Bay Harbor Island - 33154 FL
www.tensaamerica.com - Phone: +1 305-866-9917

Drawn: L. CIVATI
Checked: T. CICCONE

Date: 04/05/2018
Part #: 00-03-04
Code: -
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
**PHASE A**
bulkhead coupler connection

**PHASE B**
match-cast coupler connection

**PHASE C**
segments detachment

**PHASE D**
gasket placing and protection

**PHASE E**
segments connection

**BILL OF MATERIALS**

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<td>Bulkhead Coupler</td>
<td>Polypropylene - according to ASTM D4101</td>
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<td>Match-Cast Coupler</td>
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<td>TPR Blend - according to FDoT Tab.2.2.1.7-1 Sec.960</td>
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<td>Bulkhead load plug</td>
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<td>Match-Cast Load Plug</td>
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<td>Gasket Blockout</td>
<td>Polypropylene - according to ASTM D4101</td>
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<td>Storage Bag</td>
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<td>Band Clamp</td>
<td>Stainless Steel 410S4 - according to ASTM A240</td>
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<td>Corrugated Duct</td>
<td>Polypropylene - according to FDoT Tab.2.2.1.7-1 Sec.960</td>
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<td>E-X-00-07-02</td>
<td>Smooth Plastic Duct</td>
<td>High Density Polyethylene - according to ASTM D3350</td>
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**NOTE:**
- Reference to manufacturer’s installation manual for the detailed installation instructions;
- The representation of both smooth and corrugated duct in the same coupler is purely representative;
- Segmental duct coupler meets FDoT requirements (Par. 2.2.1.6 and 3.2.1 Section 960);
- Components marked with ‘T’ on the drawing are temporary, components marked with ‘O’ are optional;
- In the beside table “XX” stands for the system dimension
**SECTION A-A**

**GTI 3/4” PE INLET/OUTLET PORT for PT SYSTEM**

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

**INSTALLATION**

**Preparing the Hole**
1. Mark the smooth 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;

**Material:** SCHEDULE 40 STEEL

**Title:** 3/4" NPT NIPPLE COUPLER coupling with 3/4" NPT PIPE NIPPLES 00-03-01-M

**Dimensions:** [For Reference Only]

**Date:** 04/05/2018

**Part #:** 00-07-06

**Checked:** T.CICCONE

**Drawn:** L.CIVATI

**T.C.**

**PART NAME:** 3/4" NPT NIPPLE COUPLER

**Description:**

- [Diagram of 3/4" NPT NIPPLE COUPLER with dimensions and notes]
NOTE:

- This drawing is not intended for manufacturing purposes;
- All dimensions are measured;
- 150 psi rated;
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<th>L.C.</th>
<th>T.C.</th>
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</table>

Material: GR270 - according to ASTM A416

Title: 7 WIRES STEEL STRAND 0.6"

Dimensions: INCH [mm]

Treatment: -

Part #: 00-08-00

checked: T.CICCONE

drawn: L.CIVATI

date: 07/21/16

dimensions: INCH [mm]

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NOTE:

- All dimensions are measured;
- This drawing is not intended for manufacturing purposes.

Material: Stainless Steel GR316 - according to ASTM A240

Treatment: -

Title: BAND CLAMP for segmental duct coupler

Dimensions: 0.37" [10mm]

Part #: 00-10-00

Rev. Date: 08/23/19

Date: 08/23/2019

Dimensions: (For Reference Only)

Material: Stainless Steel GR316 - according to ASTM A240

Treatment: -

Title: BAND CLAMP for segmental duct coupler

Dimensions: 0.37" [10mm]

Part #: 00-10-00

Date: 08/23/2019

Dimensions: (For Reference Only)

Material: Stainless Steel GR316 - according to ASTM A240

Treatment: -

Title: BAND CLAMP for segmental duct coupler

Dimensions: 0.37" [10mm]

Part #: 00-10-00

Date: 08/23/2019

Dimensions: (For Reference Only)