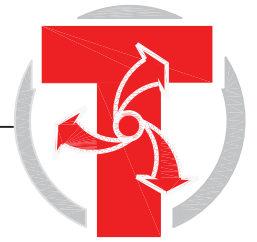


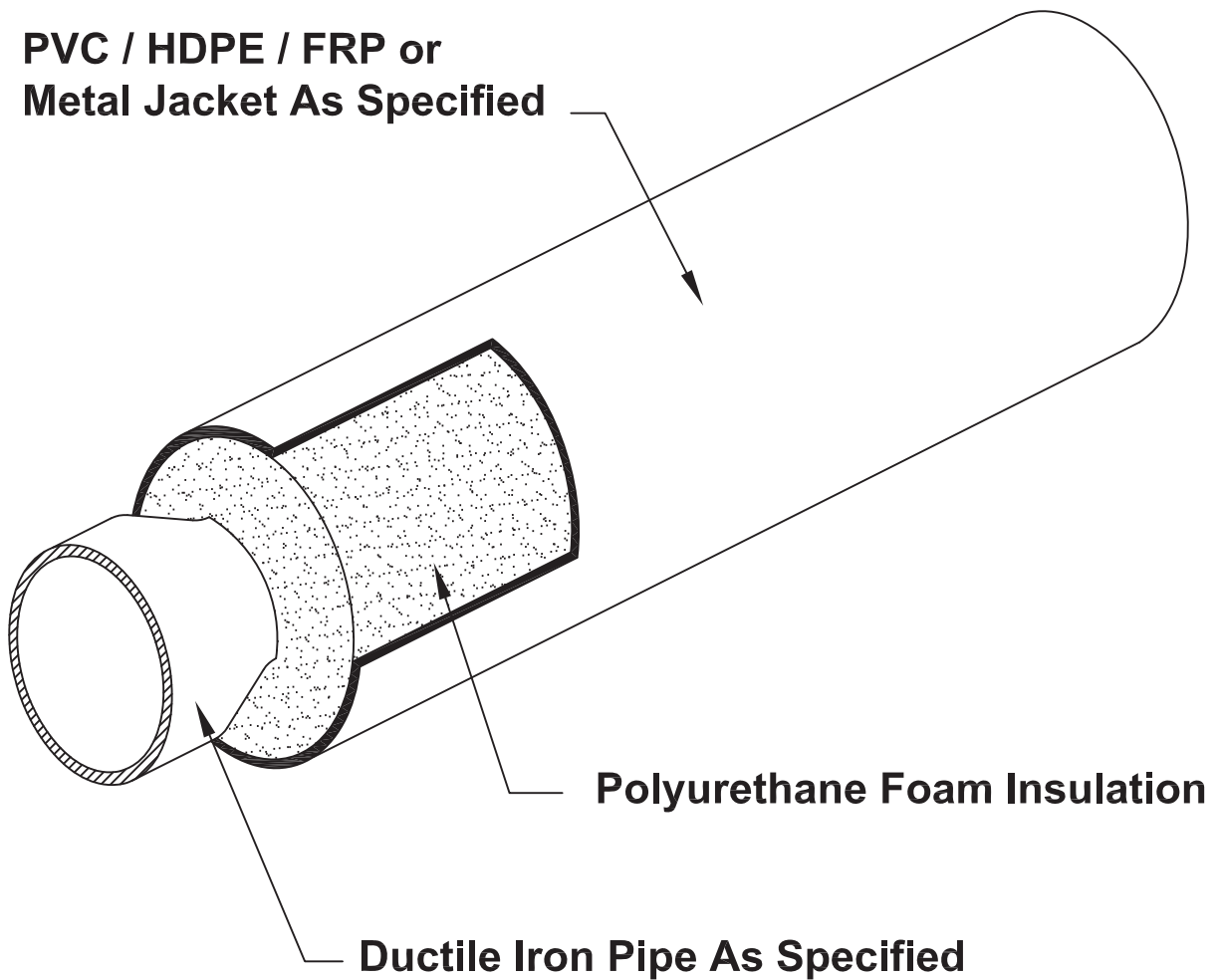
TRICON DUCTILE IRON PIPE SYSTEM



For Applications Up To 225° F Below And Above Ground

- ☐ Chilled Water
- ☐ Heating Hot Water
- ☐ Potable Water
- ☐ Waste Water

**PVC / HDPE / FRP or
Metal Jacket As Specified**



Polyurethane Foam Insulation

Ductile Iron Pipe As Specified



TRICON
Piping Systems, Inc.®

P.O. Box 361, Canastota, New York 13032
Tel: 315.697.8787 Fax: 315.697.8788

TRICON DUCTILE IRON

System Specifications

TABLE 1

Pipe Size	Nominal Insulation Thickness	HDPE Jacket O.D.	HDPE Jacket Wall
3"	1.85"	8.00"	.175"
4"	2.43"	10.00"	.175"
6"	2.59"	12.43"	.175"
8"	2.33"	14.06"	.175"
10"	2.21"	15.87"	.175"
12"	2.12"	17.83"	.175"
14"	2.05"	19.80"	.200"
16"	2.19"	22.17"	.200"
18"	2.02"	24.00"	.225"
20"	2.96"	28.07"	.275"
24"	1.83"	30.05"	.300"
30"	1.70"	36.00"	.300"

Service Pipe:

The service pipe shall be Ductile Iron manufactured in accordance with ANSI/AWWA C151/A21-51. Push-on joints and mechanical joints shall be in accordance with ANSI/AWWA C111/A21.11

Insulation:

The insulation shall be a foamed in place closed cell polyurethane which completely fills the annular space between the carrier pipe and the exterior casing. The insulation shall have the following physical properties:

Minimum Density (lb./cu. ft.) 2.0	ASTM D-1621
"K" Factor BTU/Hr. sq. ft. °F/in. .16	ASTM C-177
90-95 % Closed Cell	ASTM D-2856

Exterior Casing: *

The exterior casing shall be

(1) Seamless, extruded white PVC Type 1, Grade 1, Class 12454-B per ASTM D-1784 **or**

(2) Seamless, High Density Polyethylene (H.D.P.E.) ASTM D-1248 with the following physical properties:

ASTM D-638.....Ultimate Elongation 850%

ASTM D-638.....Tensile Yield Strength 3300 psi

ASTM D-3350.....Resin Type III, Grade P34

ASTM D-790.....Tangent Flexural Modules 175,000 psi

No tape casings will be allowed.

Fittings:

All fittings shall be mechanical joint and restrained with a mechanical retainer gland or a concrete poured thrust block. Fittings shall be in accordance with AWWA C110 and AWWA C111.

Above grade fittings to be insulated with a Tricon supplied 2-Pc insulation kit.

Field Joints:

If required, all Tyton joints with an HDPE jacket shall be covered with a wrap of Polyken Tape and covered with a HDPE rockshield. Mechanical joints will be insulated with pre-cut rigid urethane, covered with either Polyken tape or heat shrink sleeve and covered with an HDPE rockshield. PVC jackets shall be covered with a PVC sleeve and a wrap of Polyken Tape.

Above grade joints to be insulated with rigid polyurethane foam with a wrap around cover and secured in place. Cover to be either metal or HDPE.

TABLE 2

Pipe Size	Nominal Insulation Thickness	PVC Jacket O.D.	PVC Jacket Wall
3"	2.02"	8.16"	.080"
4"	2.60"	10.20"	.100"
6"	2.55"	12.24"	.120"
8"	2.50"	14.32"	.140"
10"	2.29"	16.00"	.160"

Installation:

No Piping shall be installed in standing water. Trenches shall be maintained dry until final field closure is complete.

The installing contractor shall handle the piping system in accordance with the directions furnished by the manufacturer and as approved by the architect and engineer. The service piping shall be hydrostatically tested to 1-1/2 times the operating pressure, or as specified in the contract documents. The test shall be maintained for a minimum time of 1 hour. **EXERCISE DUE CARE WHEN INSTALLING AND TESTING THE PIPING SYSTEM.**

Backfill:

A 4-inch layer of sand or fine gravel, less than 1/2" in diameter, shall be placed and tamped in the trench to provide uniform bedding for the **Ductile** system. Once the system is in place, the trenches shall be carefully backfilled with similar material and hand tamped in 6" layers until a minimum of 12" above the top of the preinsulated pipe has been achieved. The remainder of the backfill shall be void of rocks, frozen earth and foreign material. The trench shall be compacted to comply with H-20 Highway loading.

Accessories:

- Heat Tracing

System Options:

- Contact your Tricon representative for available sizes and system options.

- * Optional metallic casings for above ground applications include, Spiral Lockseam in Galvanized, Aluminum or Stainless Steel.
- * Optional non-metallic casings for both above and below grade offered include, Filament Wound FRP.

Tricon Piping Systems, Inc.
P.O. Box 361
Canastota, NY 13032

Tel: 315-697-8787
Fax: 315-697-8788
www.triconpiping.com

DUCTILE IRON TYTON JOINT SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

HDPE JACKET

MASTIC END SEAL

HDPE JACKET

18'-20' LENGTHS



TRICON

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
p (315)697-8787 f (315)697-8788

SHEET TITLE

TYTON JOINT STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1A

SHEET

1 OF 5

DUCTILE IRON TYTON JOINT SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

FRP JACKET

MASTIC END SEAL

FRP JACKET

18'-20' LENGTHS



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SHEET TITLE

TYTON JOINT STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1A

SHEET

2 OF 5

DUCTILE IRON TYTON JOINT SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

ABOVE GRADE METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)

MASTIC END SEAL

METAL JACKET AS SPECIFIED

18'-20' LENGTHS



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SHEET TITLE

TYTON JOINT STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1A

SHEET

4 OF 5

DUCTILE IRON TYTON JOINT SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

METAL/PVC/FRP/HDPE JACKET
(AS SPECIFIED)

3/4" HEAT TRACE CHANNEL

MASTIC END SEAL

METAL/PVC/FRP/HDPE JACKET
(AS SPECIFIED)

3/4" HEAT TRACE CHANNEL



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SHEET TITLE

TYTON JOINT STRAIGHT LENGTH (HEAT TRACE)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

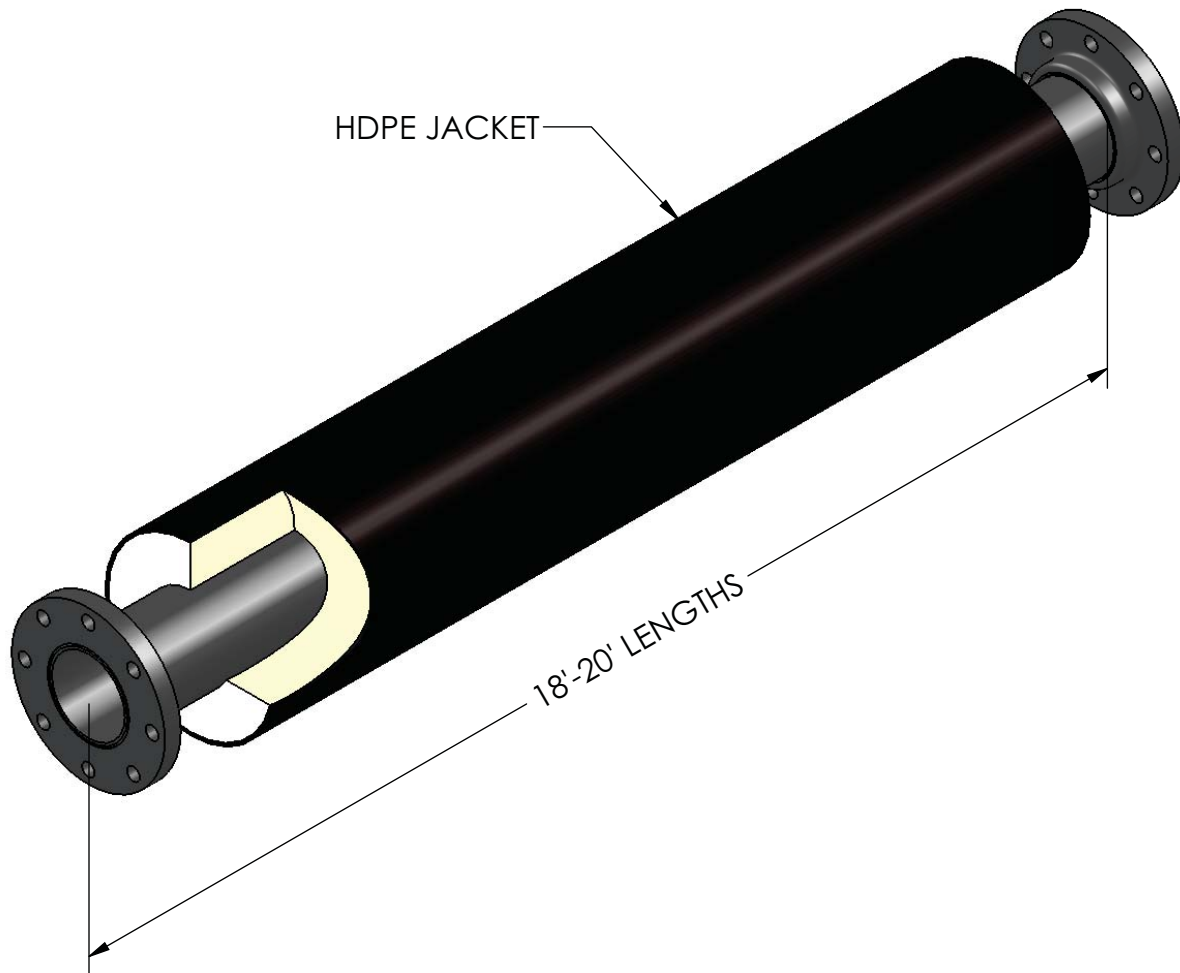
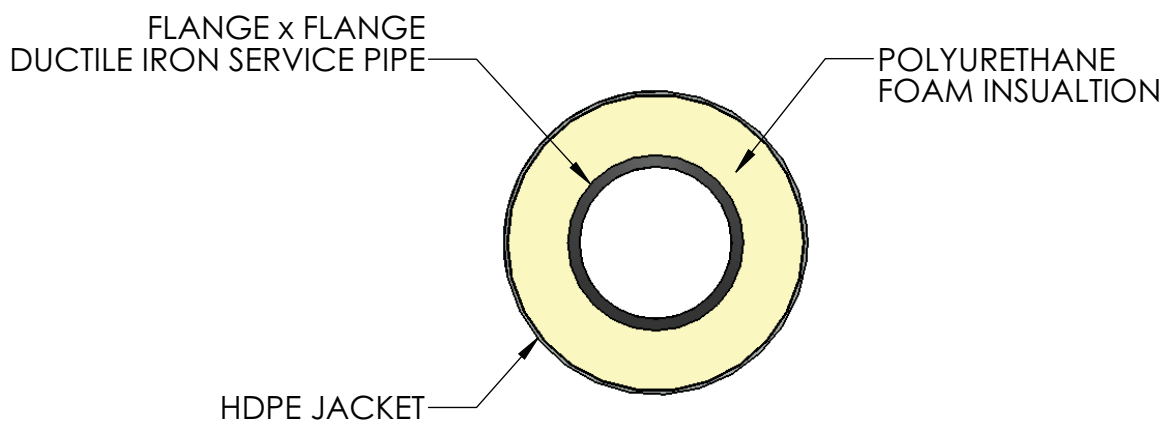
11/01/2016

DWG. NO.

DI-1

SHEET

5 OF 5



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SHEET TITLE

FLANGE X FLANGE STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

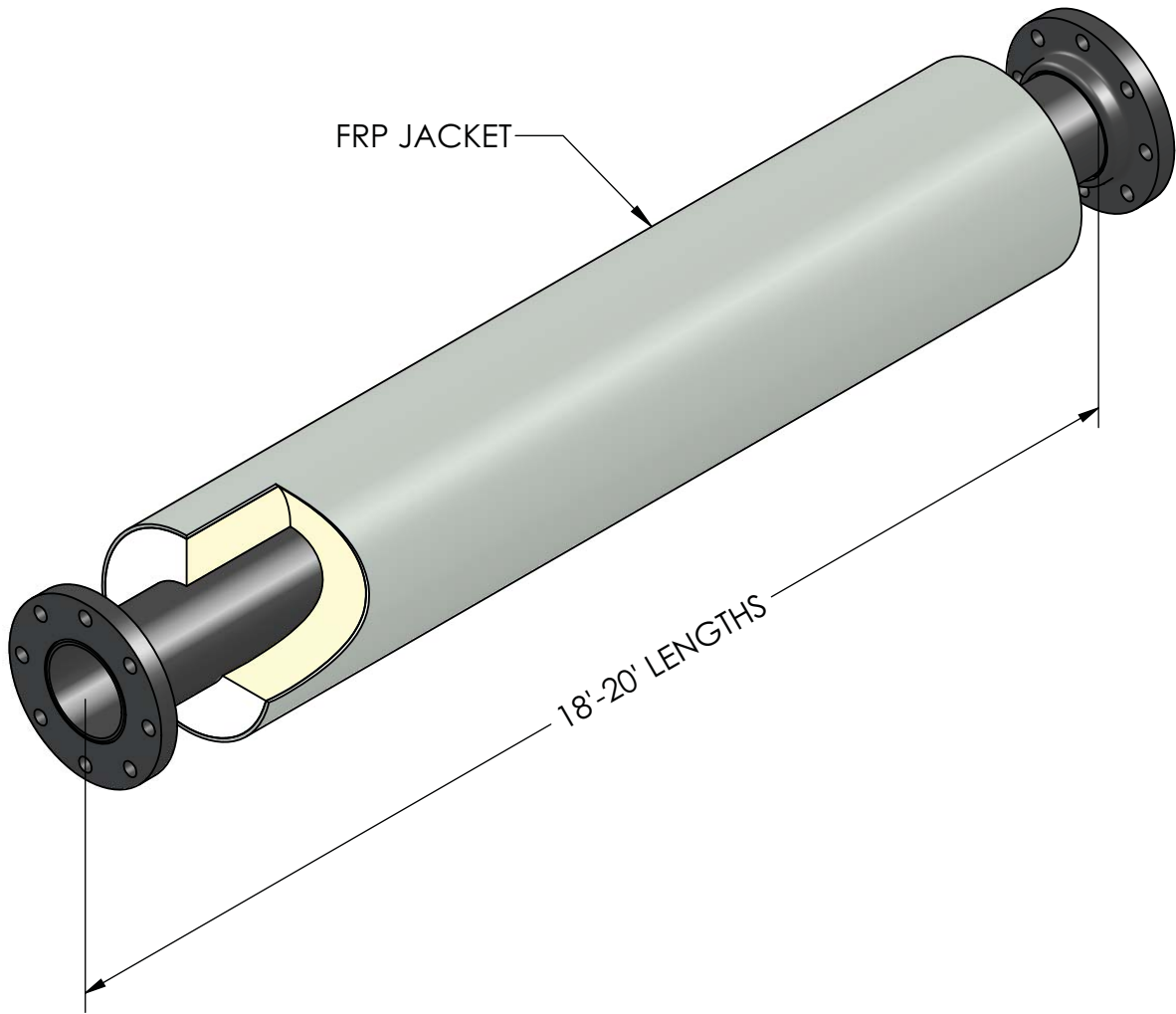
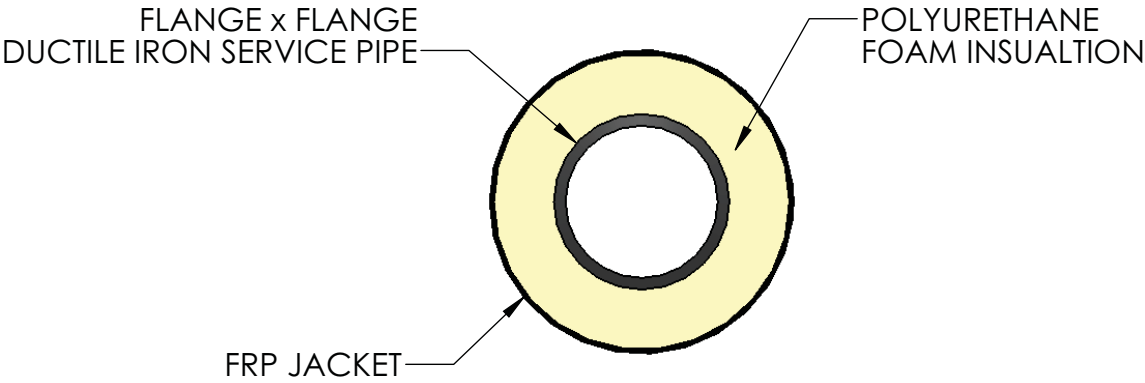
11/01/2016

DWG. NO.

DI-1B

SHEET

1 OF 4



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SHEET TITLE

FLANGE X FLANGE STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

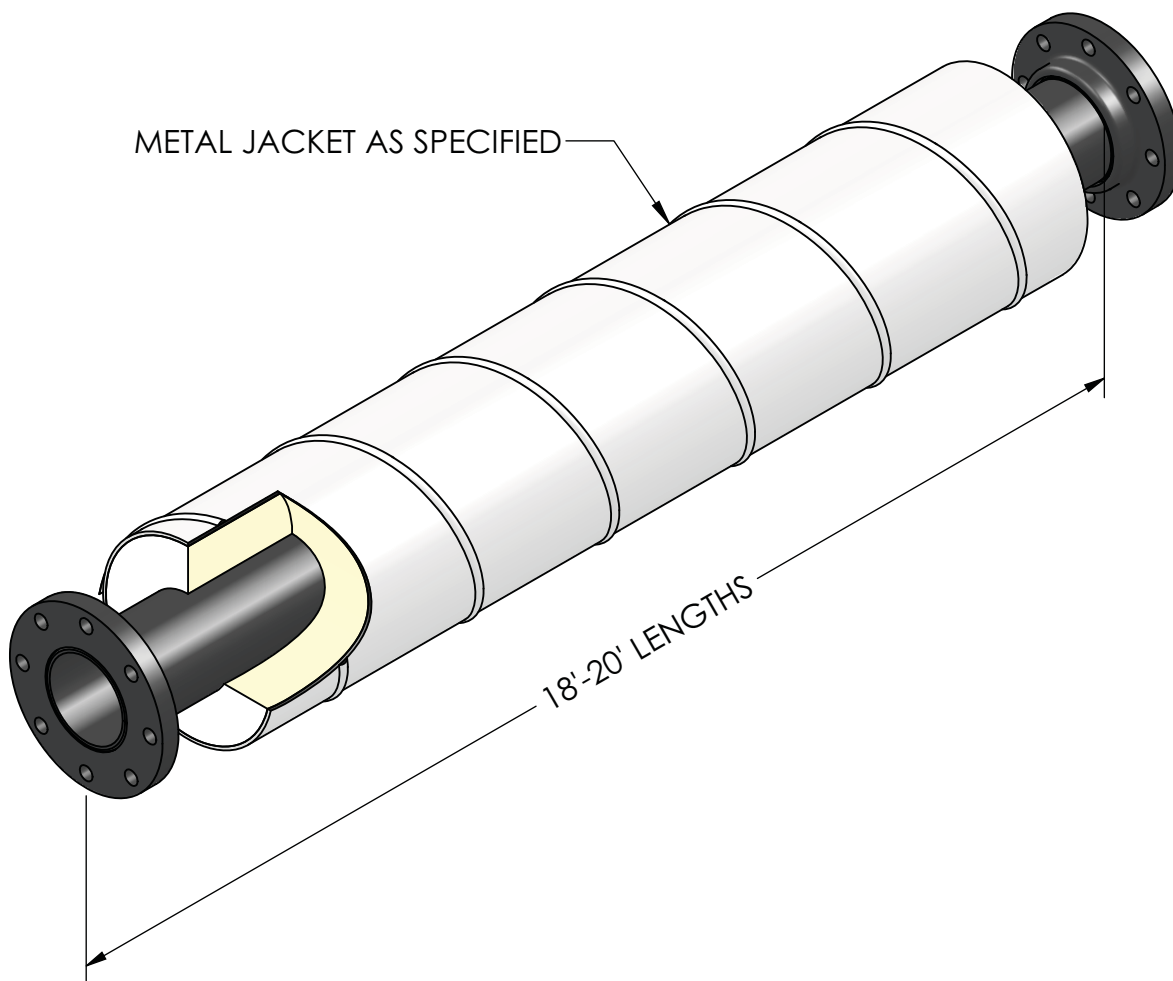
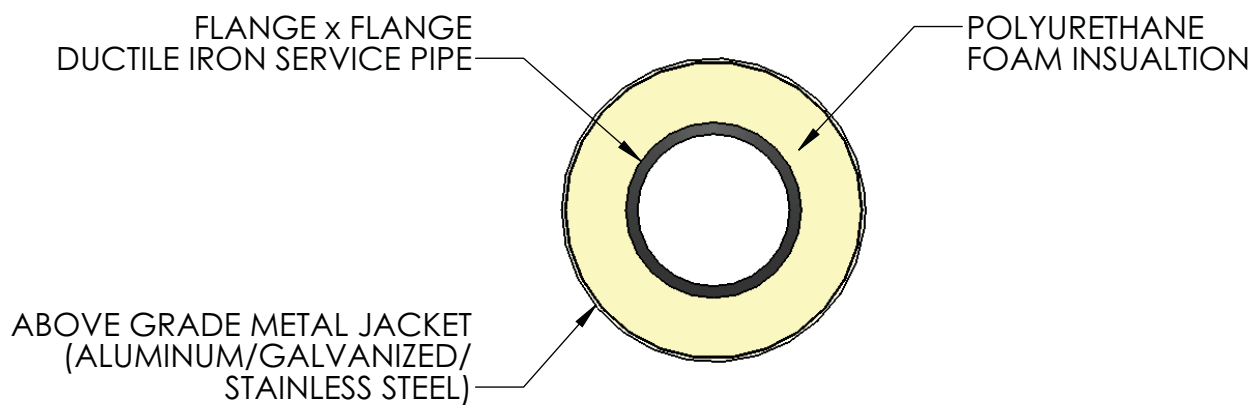
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DWG. NO.

DI-1B

SHEET

2 OF 4



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SHEET TITLE

FLANGE X FLANGE STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

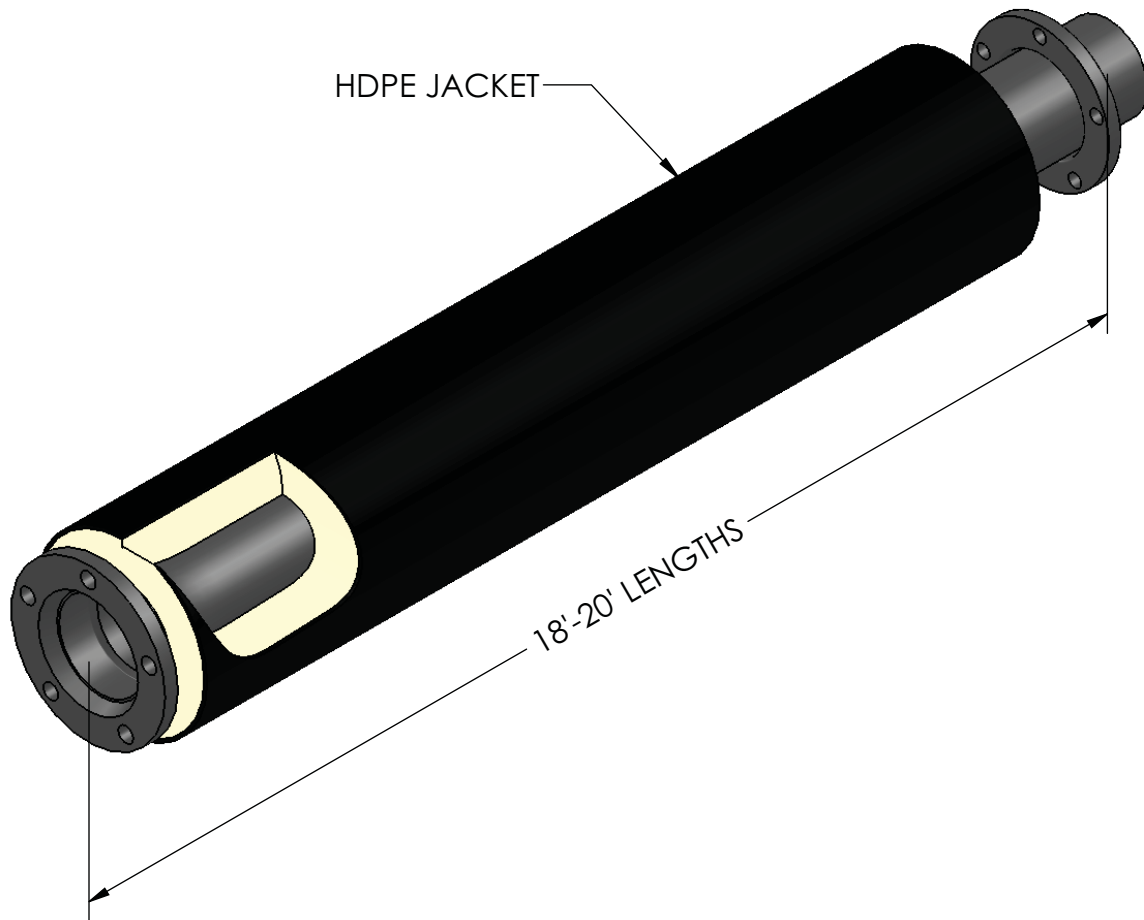
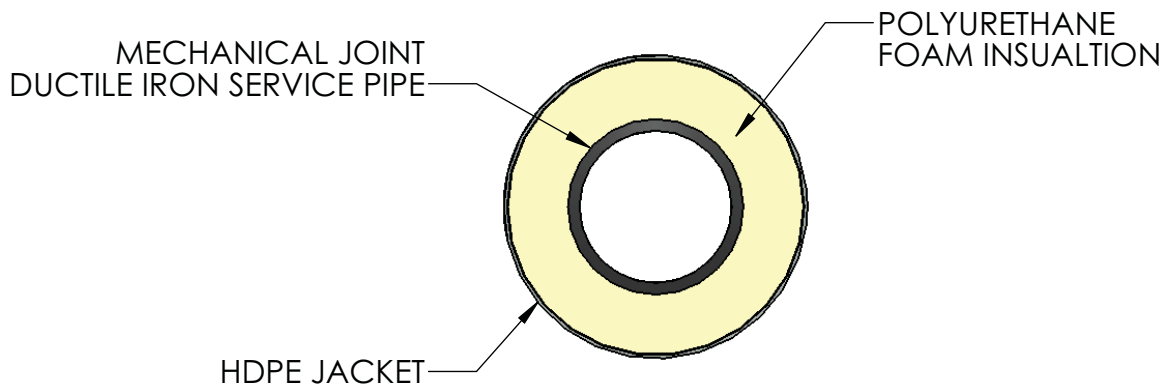
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DI-1B

SHEET

4 OF 4



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SHEET TITLE

MECHANICAL JOINT STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

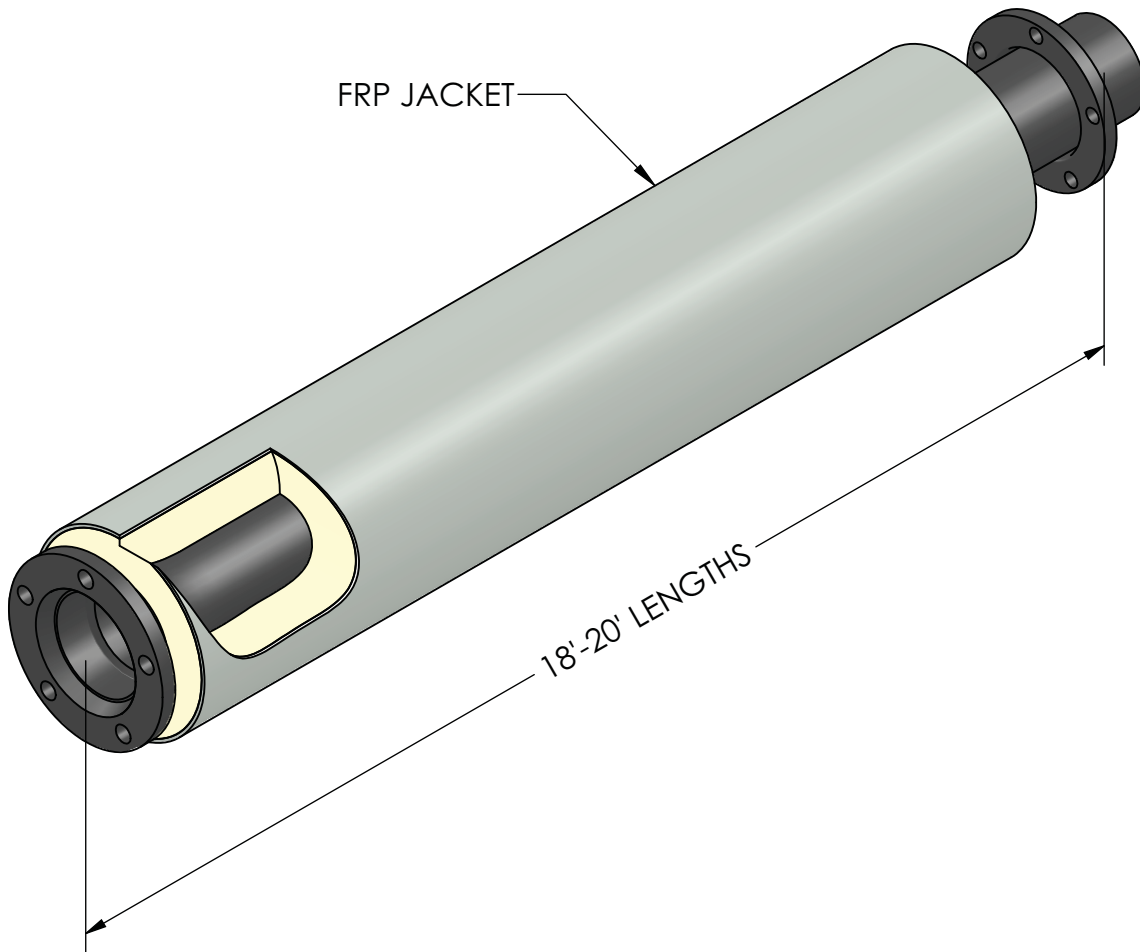
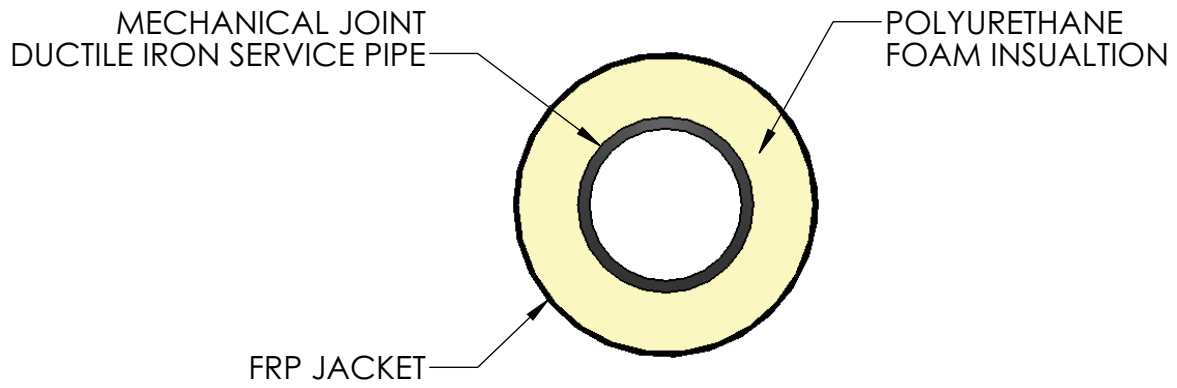
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DWG. NO.

DI-1C

SHEET

1 OF 4



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SHEET TITLE

MECHANICAL JOINT STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

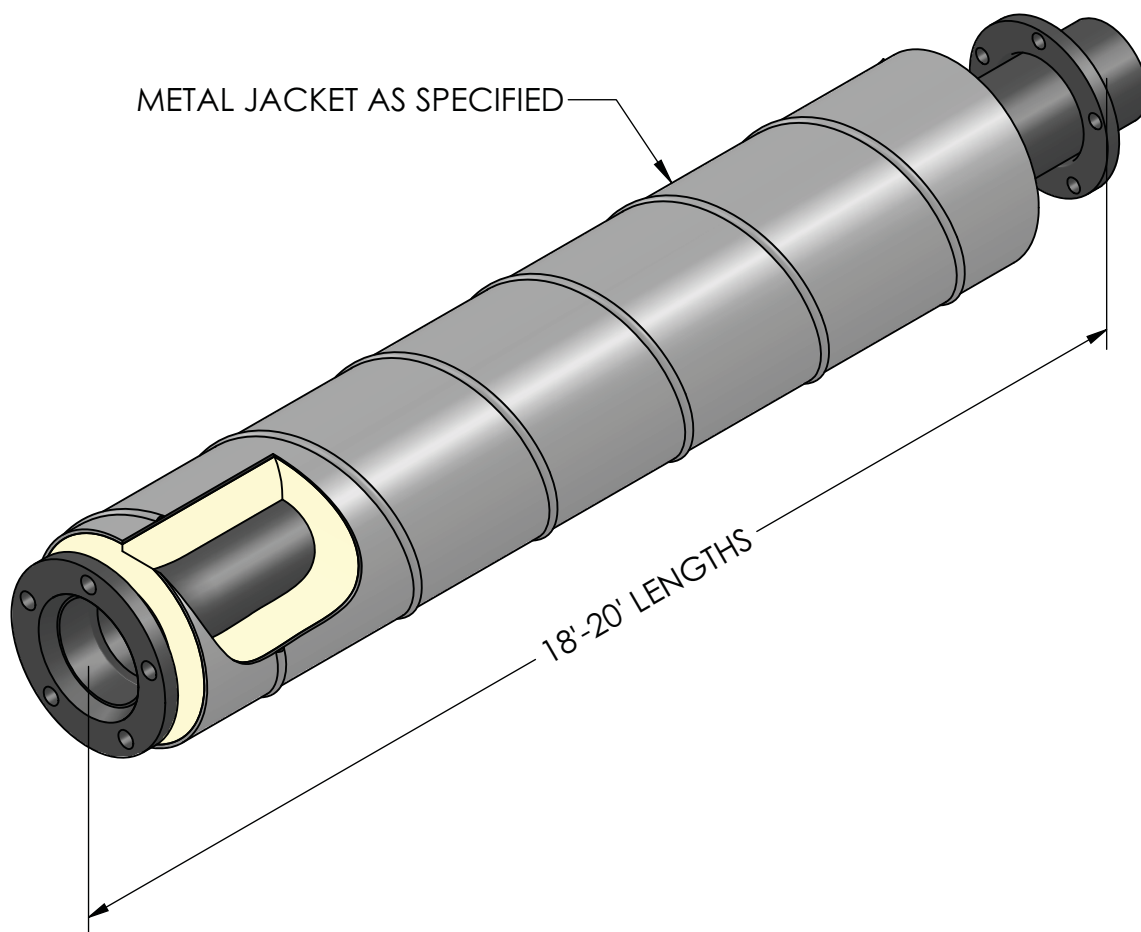
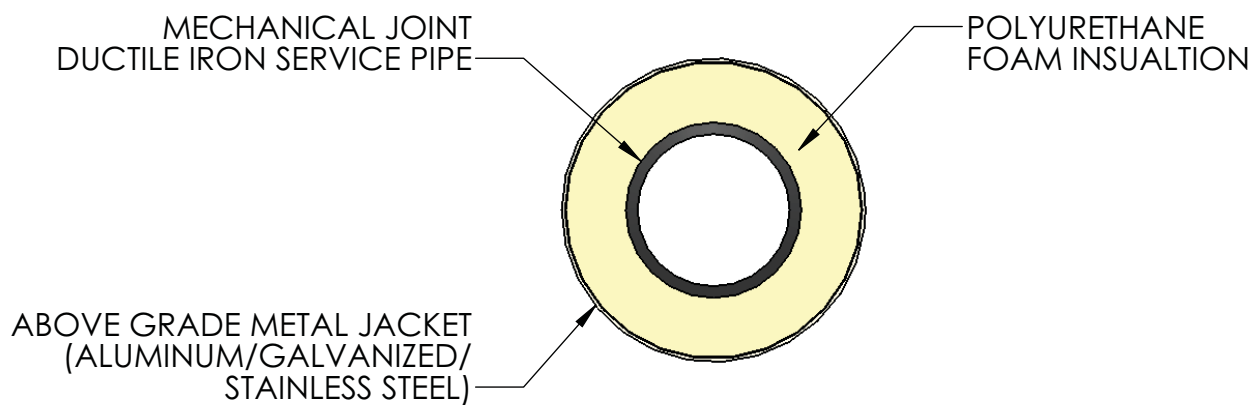
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DWG. NO.

DI-1C

SHEET

2 OF 4



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SHEET TITLE

MECHANICAL JOINT STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

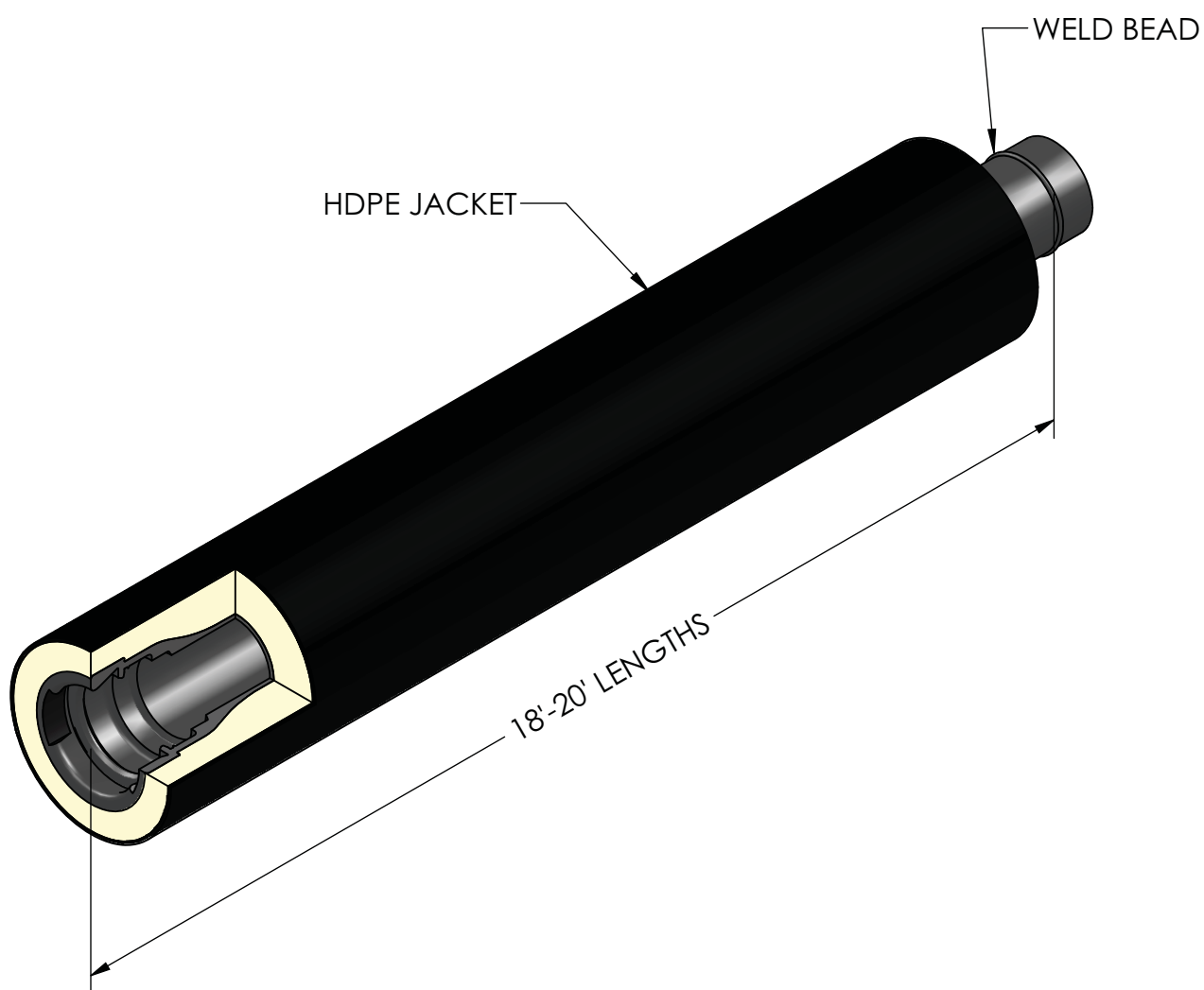
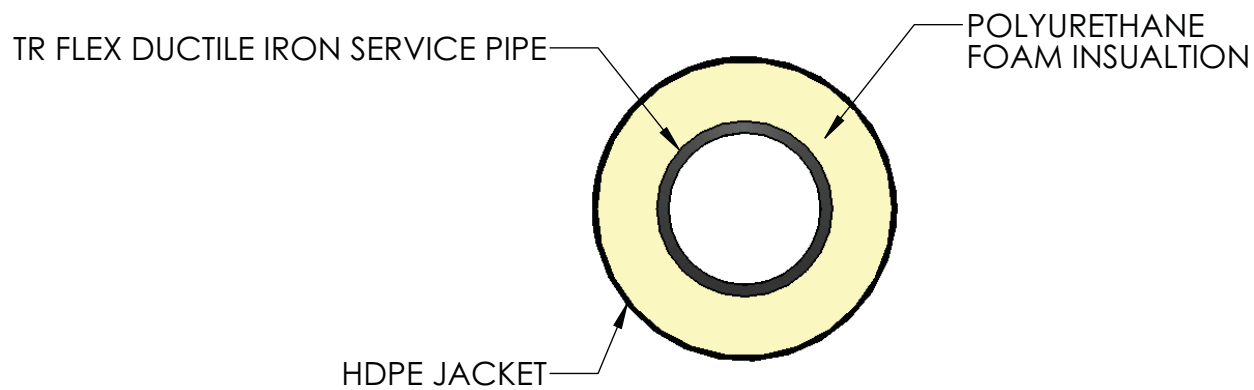
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DI-1C

SHEET

4 OF 4



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SHEET TITLE

TR FLEX STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

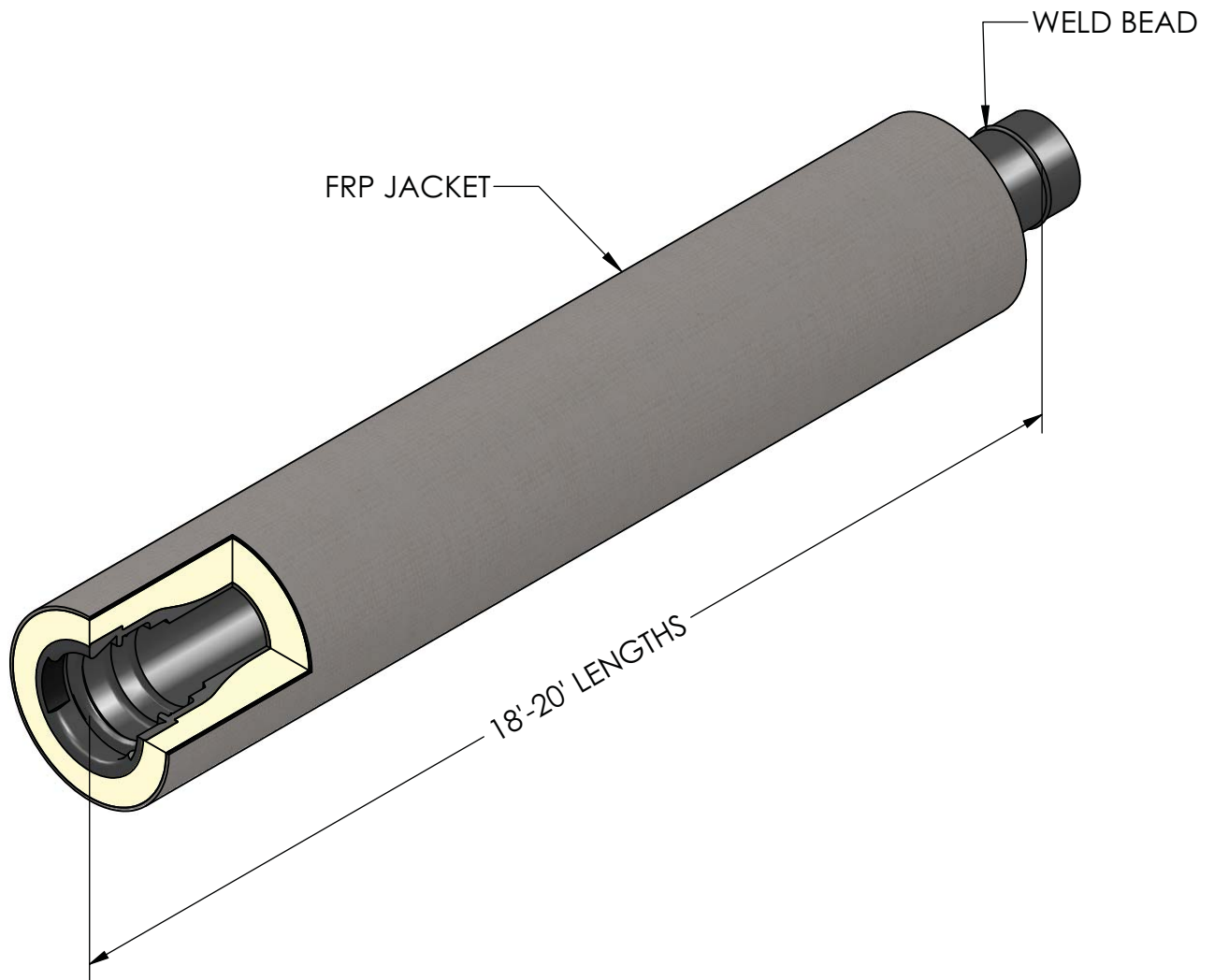
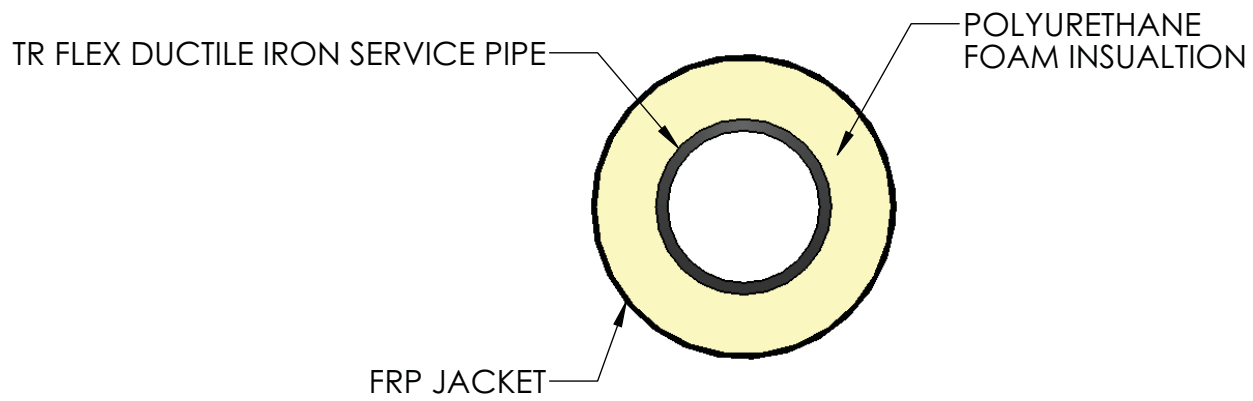
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DI-1D

SHEET

1 OF 4



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SHEET TITLE

TR FLEX STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

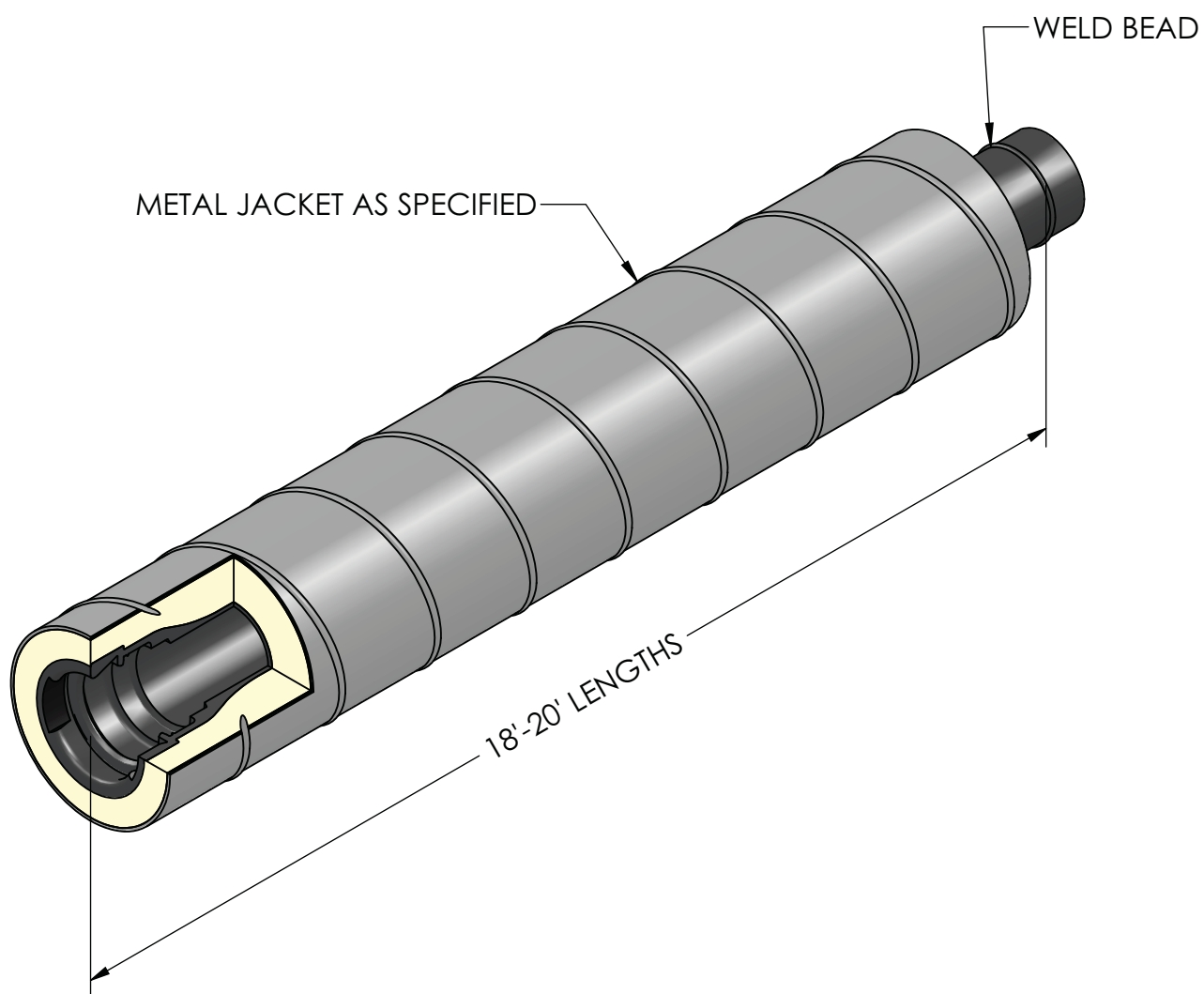
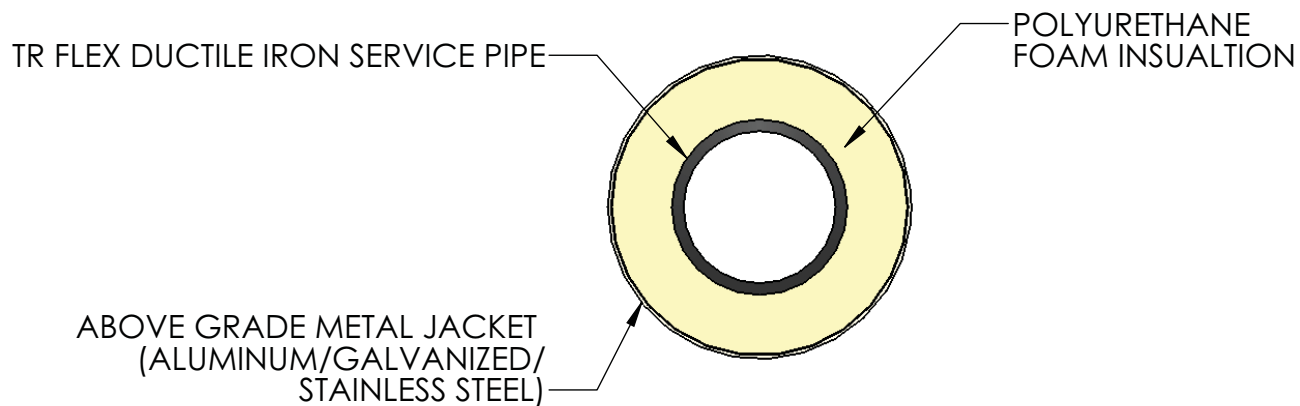
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DI-1D

SHEET

2 OF 4



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SHEET TITLE

TR FLEX STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

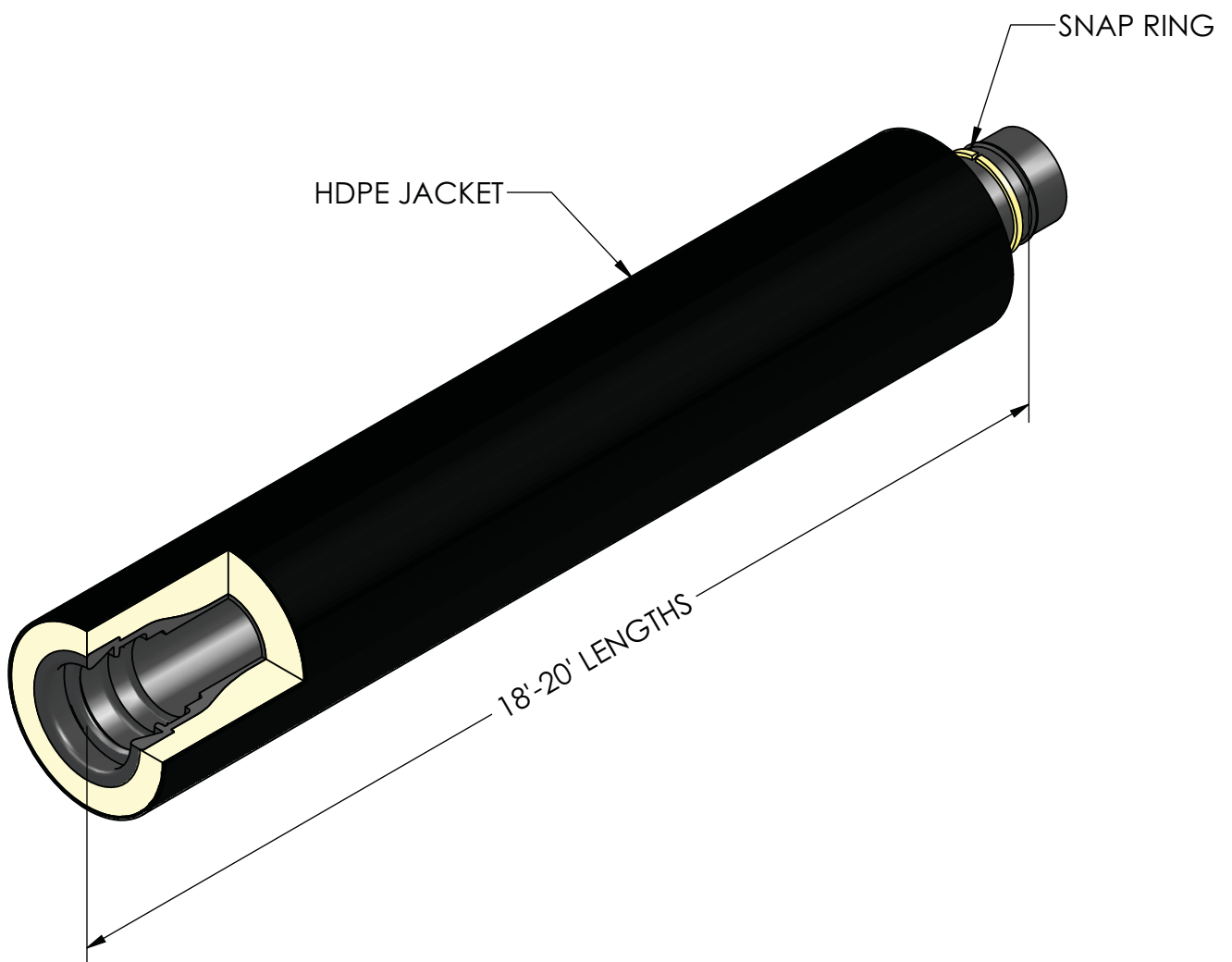
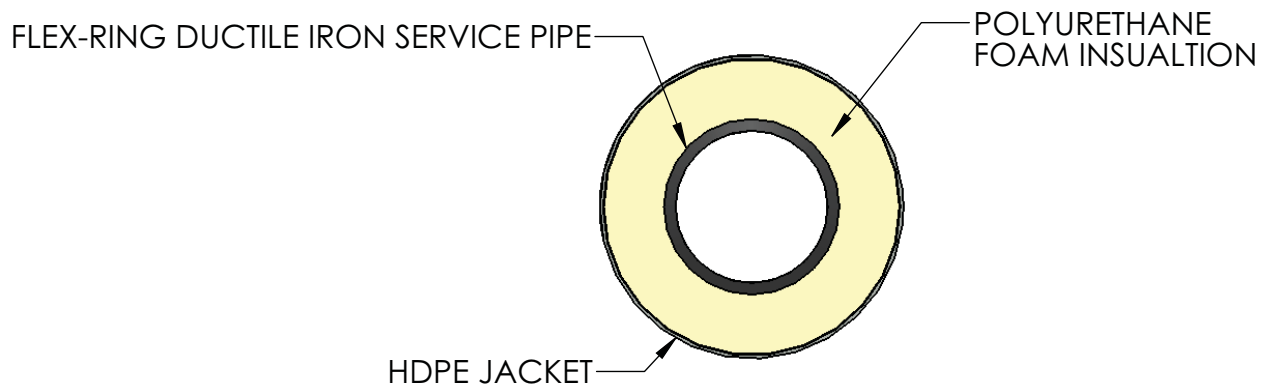
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DI-1D

SHEET

4 OF 4



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SHEET TITLE

FLEX-RING STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

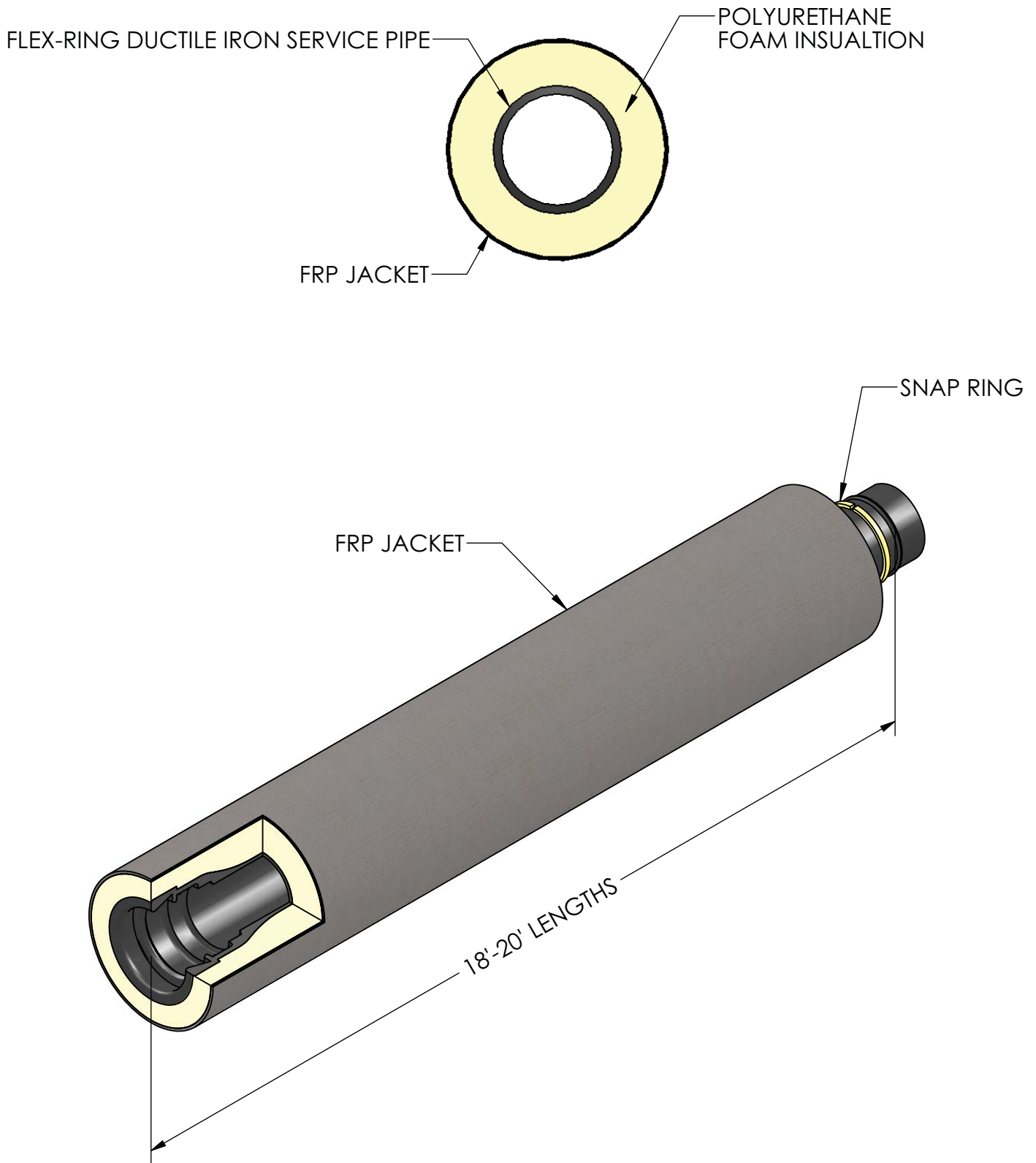
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DI-1E

SHEET

1 OF 4



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SHEET TITLE

FLEX-RING STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

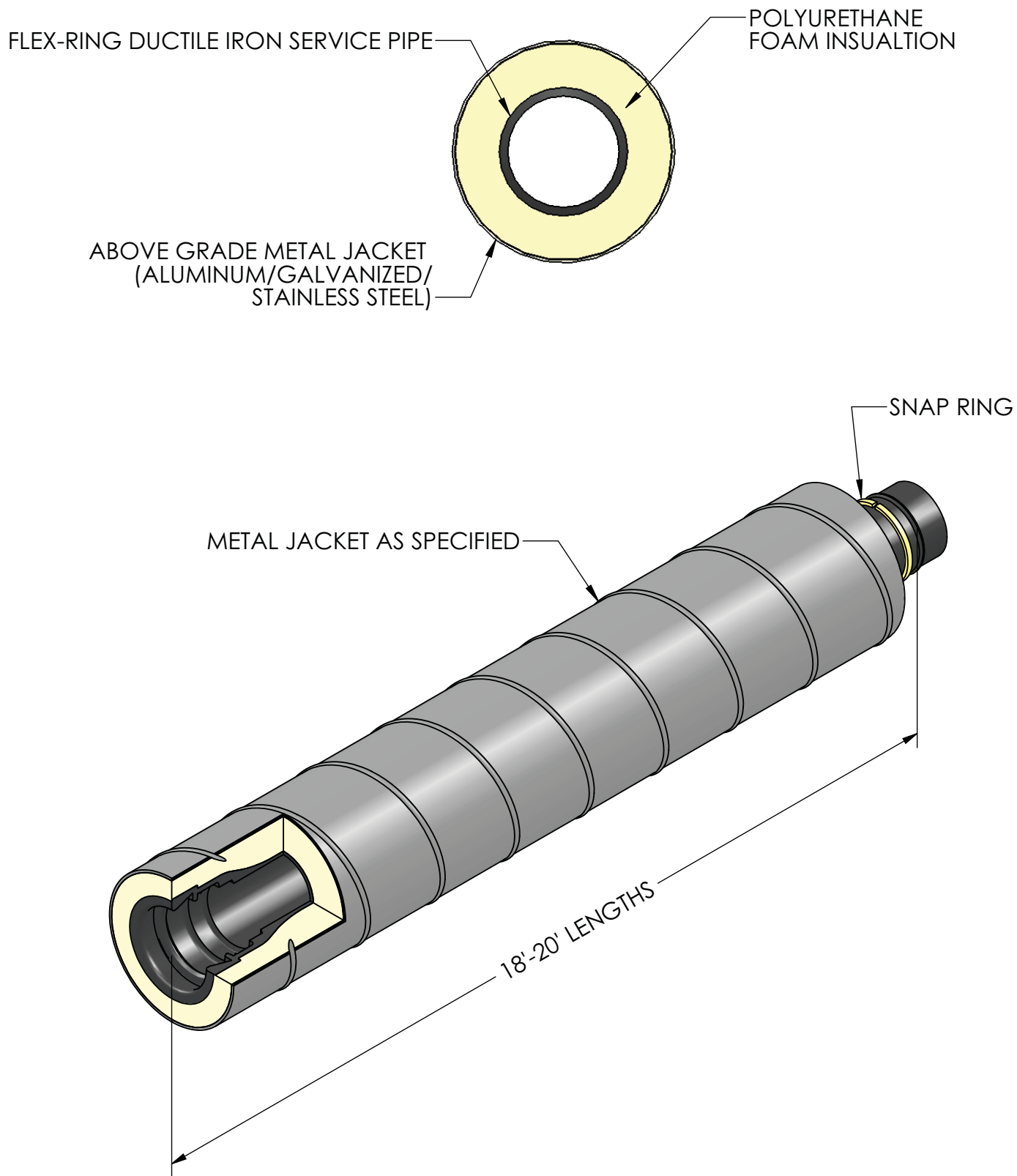
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DI-1E

SHEET

2 OF 4



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SHEET TITLE

FLEX-RING STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

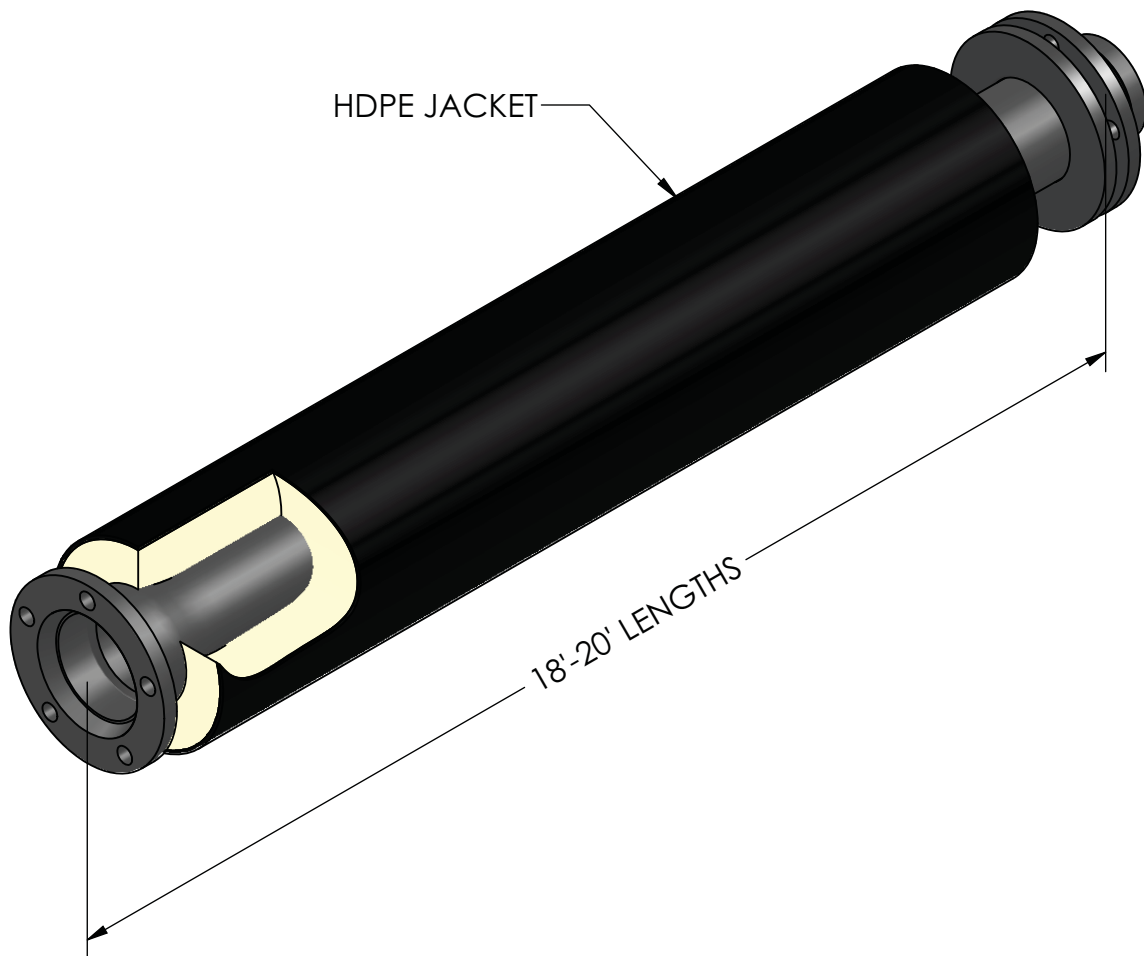
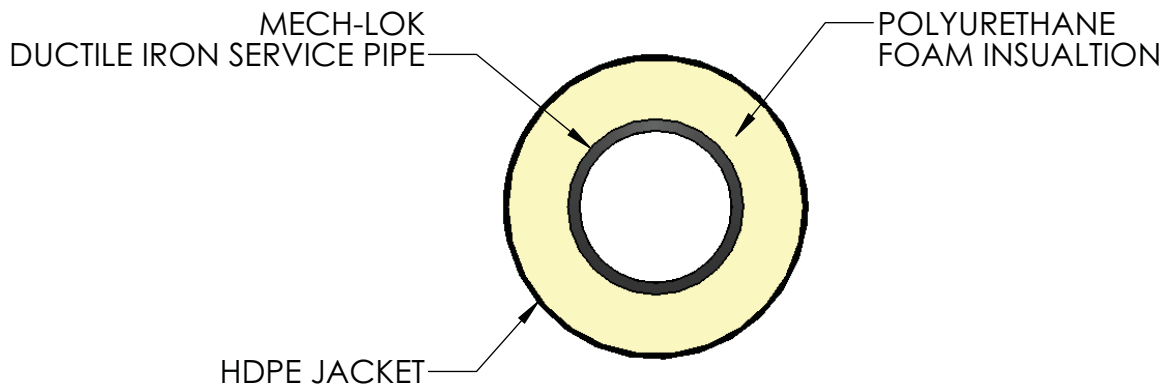
11/01/2016

DWG. NO.

DI-1E

SHEET

4 OF 4



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SHEET TITLE

MECH-LOK STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

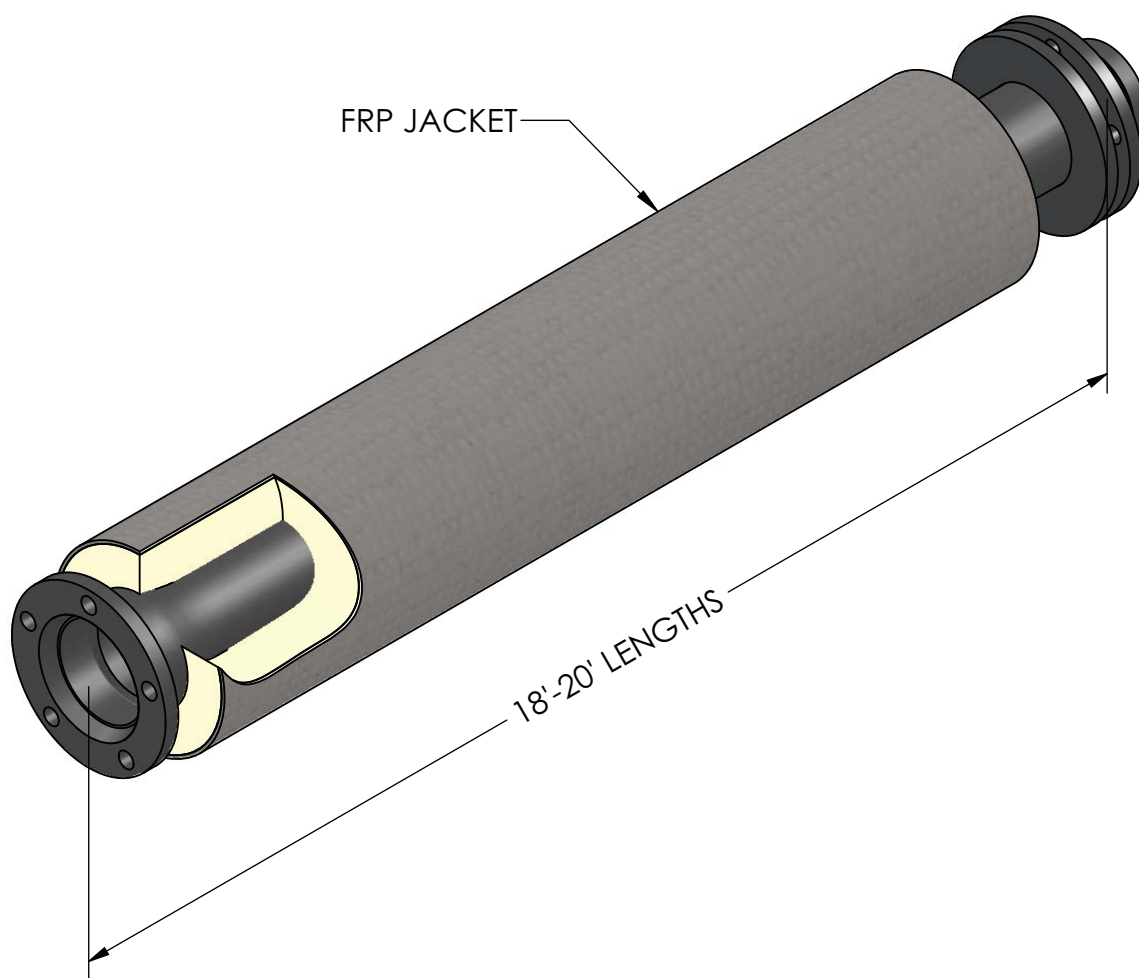
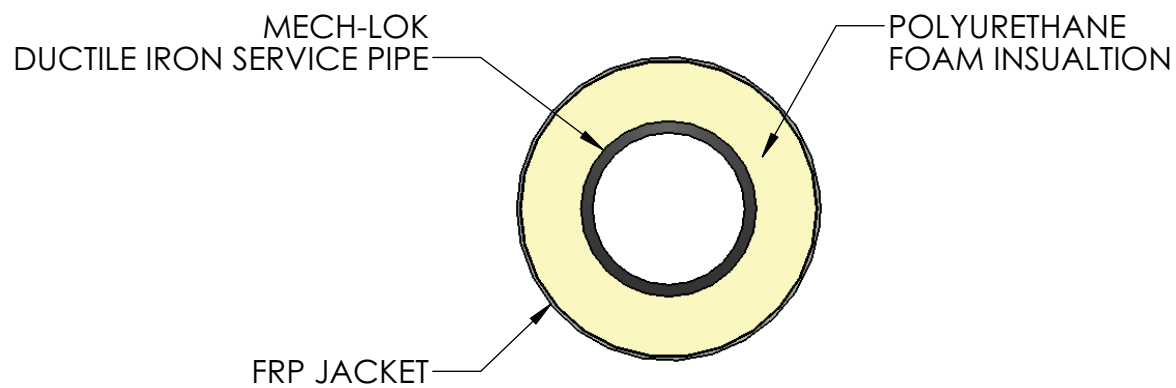
11/01/2016

DWG. NO.

DI-1F

SHEET

1 OF 4



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SHEET TITLE

MECH-LOK STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1F

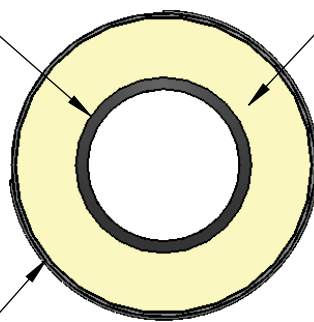
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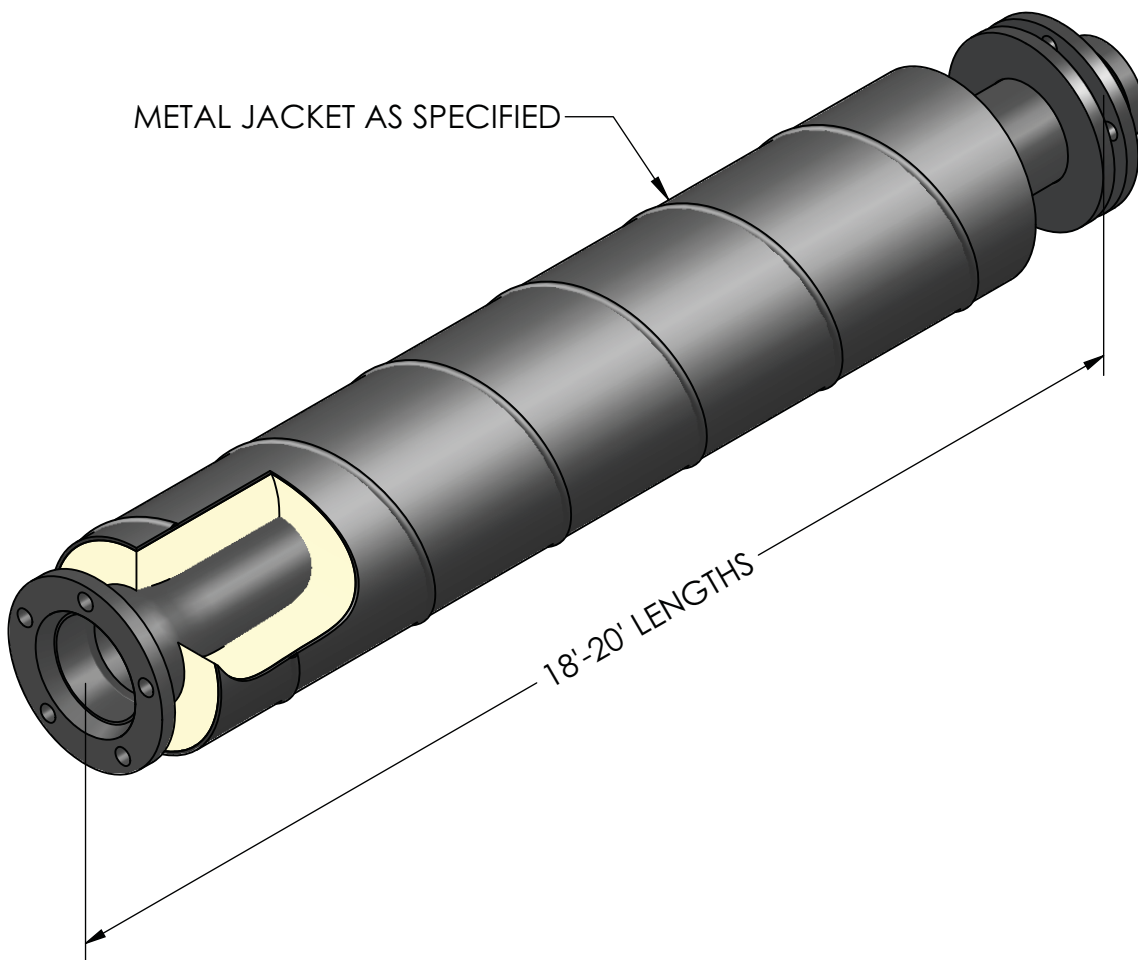
MECH-LOK
DUCTILE IRON SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

ABOVE GRADE METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)



METAL JACKET AS SPECIFIED



18'-20' LENGTHS



TRICON

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SHEET TITLE

MECH-LOK STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

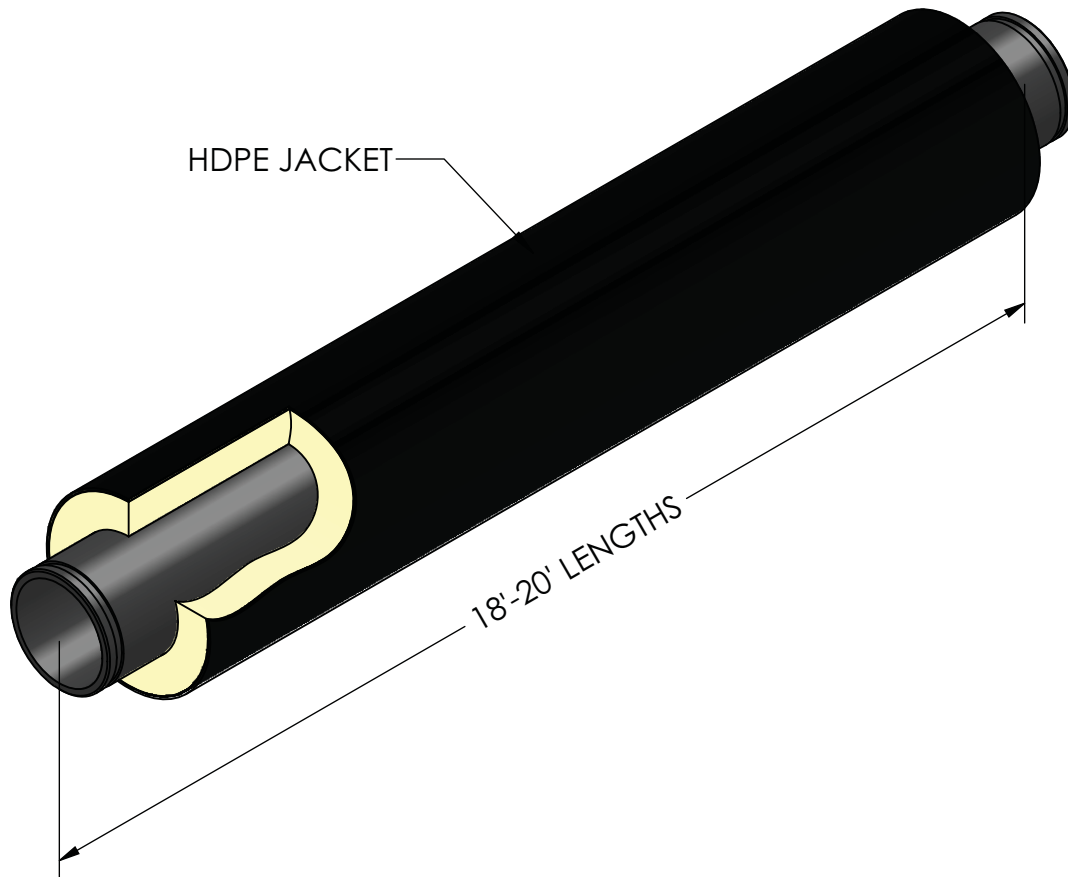
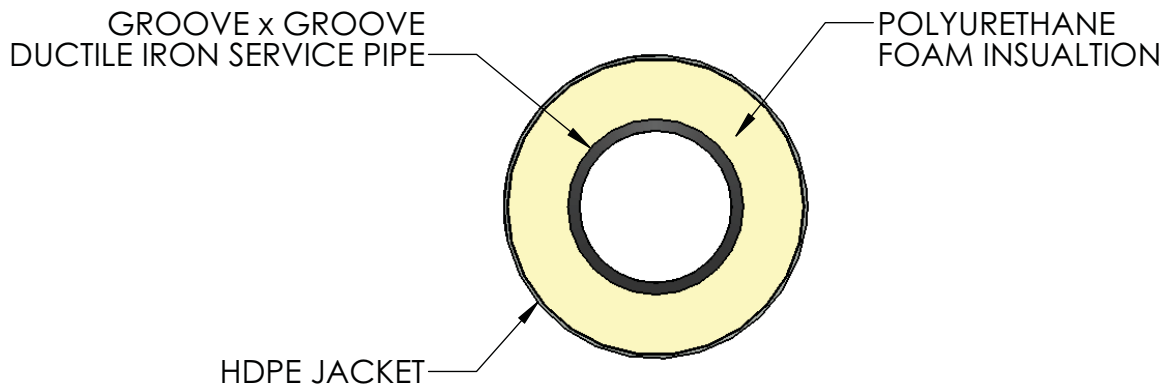
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DI-1F

SHEET

4 OF 4



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SHEET TITLE

GROOVE X GROOVE STRAIGHT LENGTH (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1G

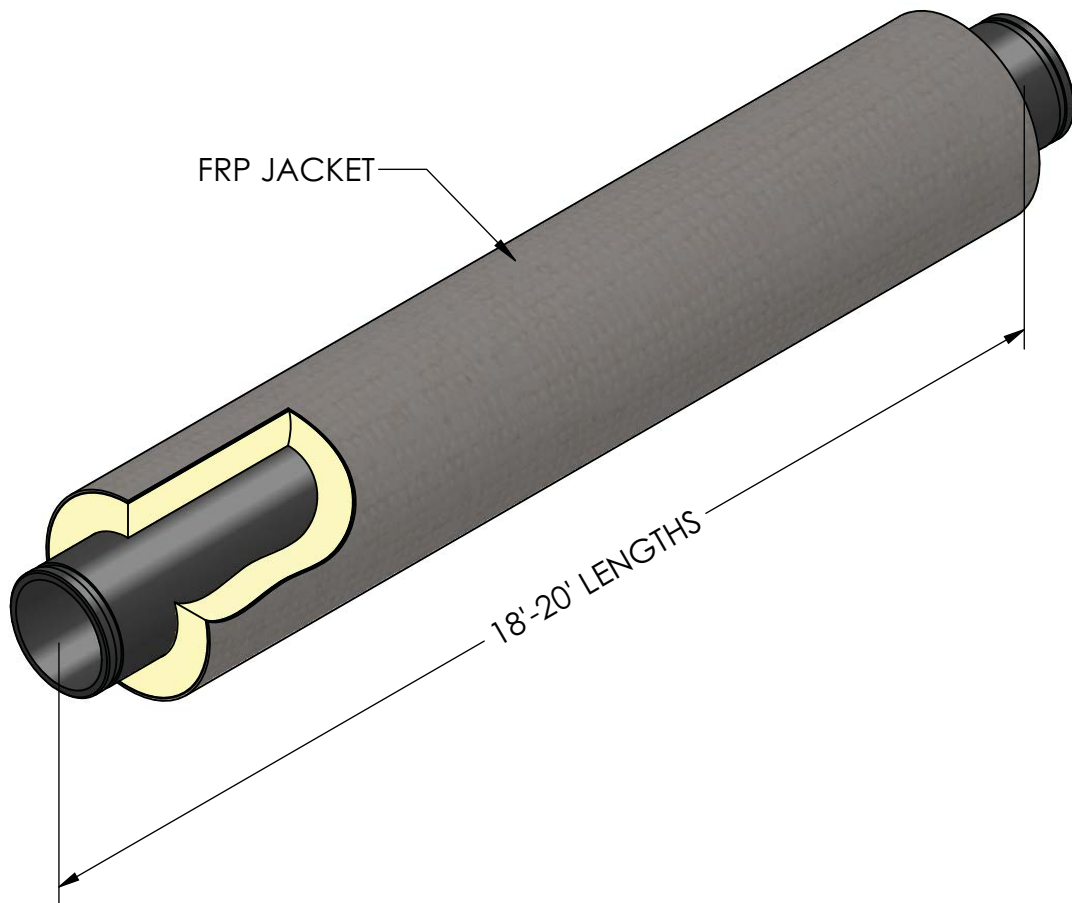
SHEET

1 OF 4

GROOVE x GROOVE
DUCTILE IRON SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

FRP JACKET



TRICON

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SHEET TITLE

GROOVE X GROOVE STRAIGHT LENGTH (FRP JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1G

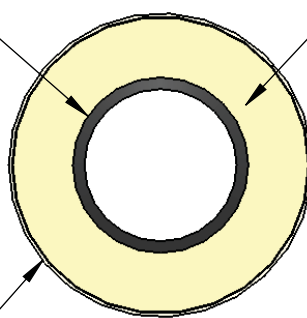
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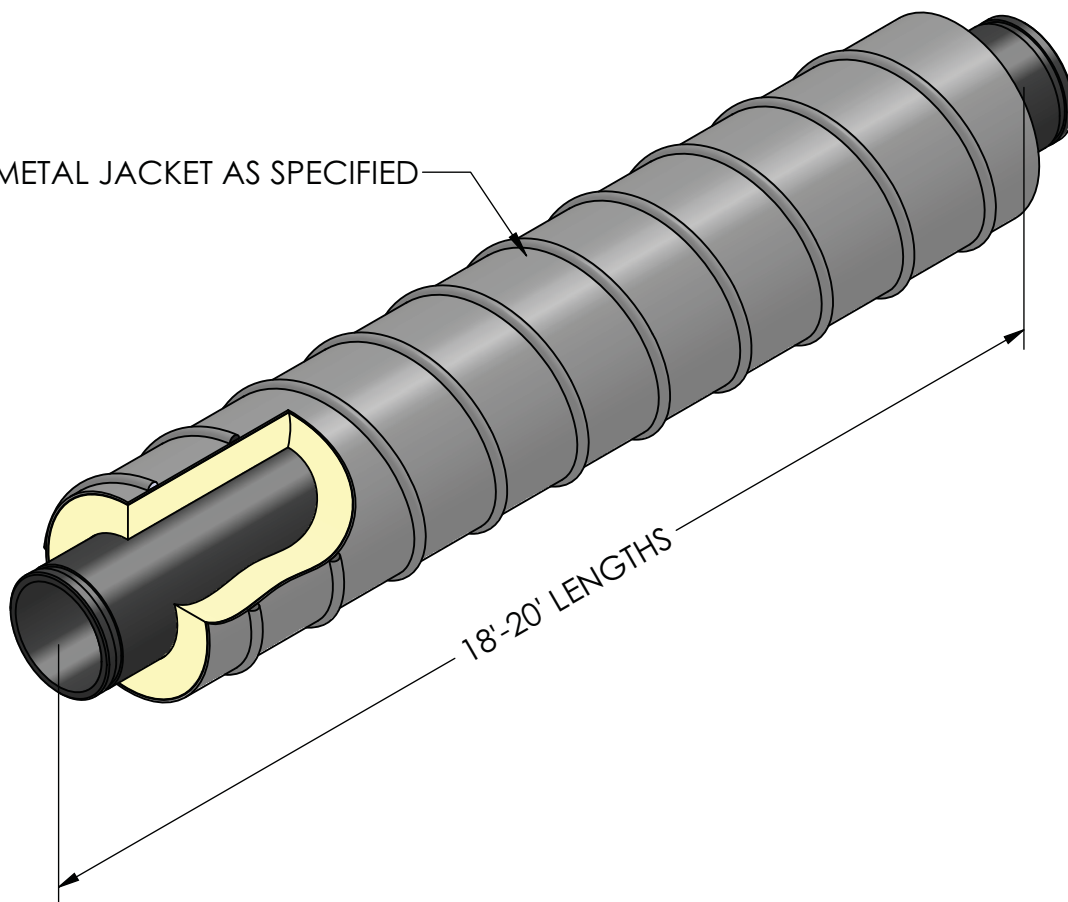
GROOVE x GROOVE
DUCTILE IRON SERVICE PIPE

POLYURETHANE
FOAM INSUALTION

ABOVE GRADE METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)



METAL JACKET AS SPECIFIED



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SHEET TITLE

GROOVE X GROOVE STRAIGHT LENGTH (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-1G

SHEET

4 OF 4

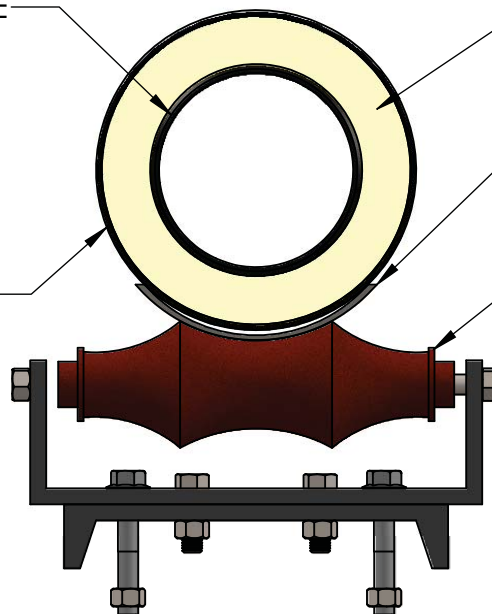
DUCTILE IRON SERVICE PIPE

POLYURETHANE
FOAM INSULATION

10 GA. STEEL WEAR PLATE

HDPE JACKET*

PIPE ROLLER
(BY OTHERS)



END VIEW
NOT TO SCALE

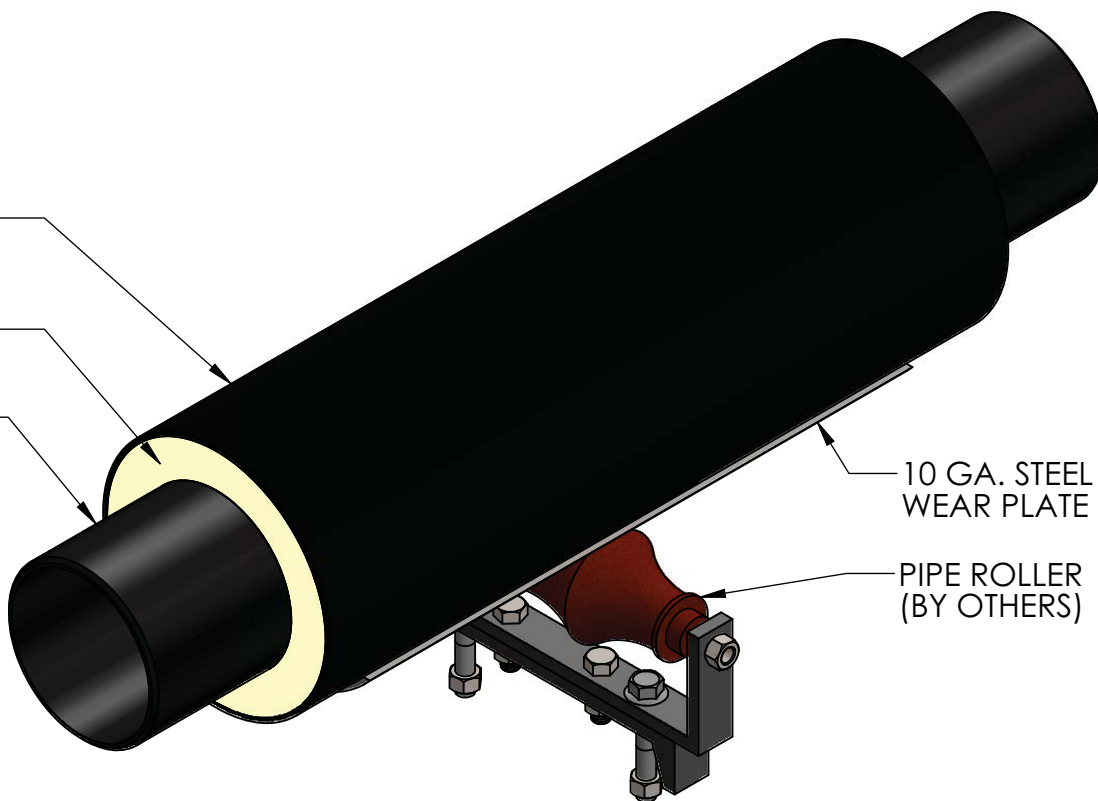
OUTER CASING

POLYURETHANE
FOAM INSULATION

SERVICE PIPE

10 GA. STEEL
WEAR PLATE

PIPE ROLLER
(BY OTHERS)



* AVAILABLE WITH CHOICE OF HDPE, FRP, PVC OR METAL JACKET UPON REQUEST.



TRICON

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
p (315)697-8787 f (315)697-8788

SHEET TITLE

PIPE ROLLER SUPPORT

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

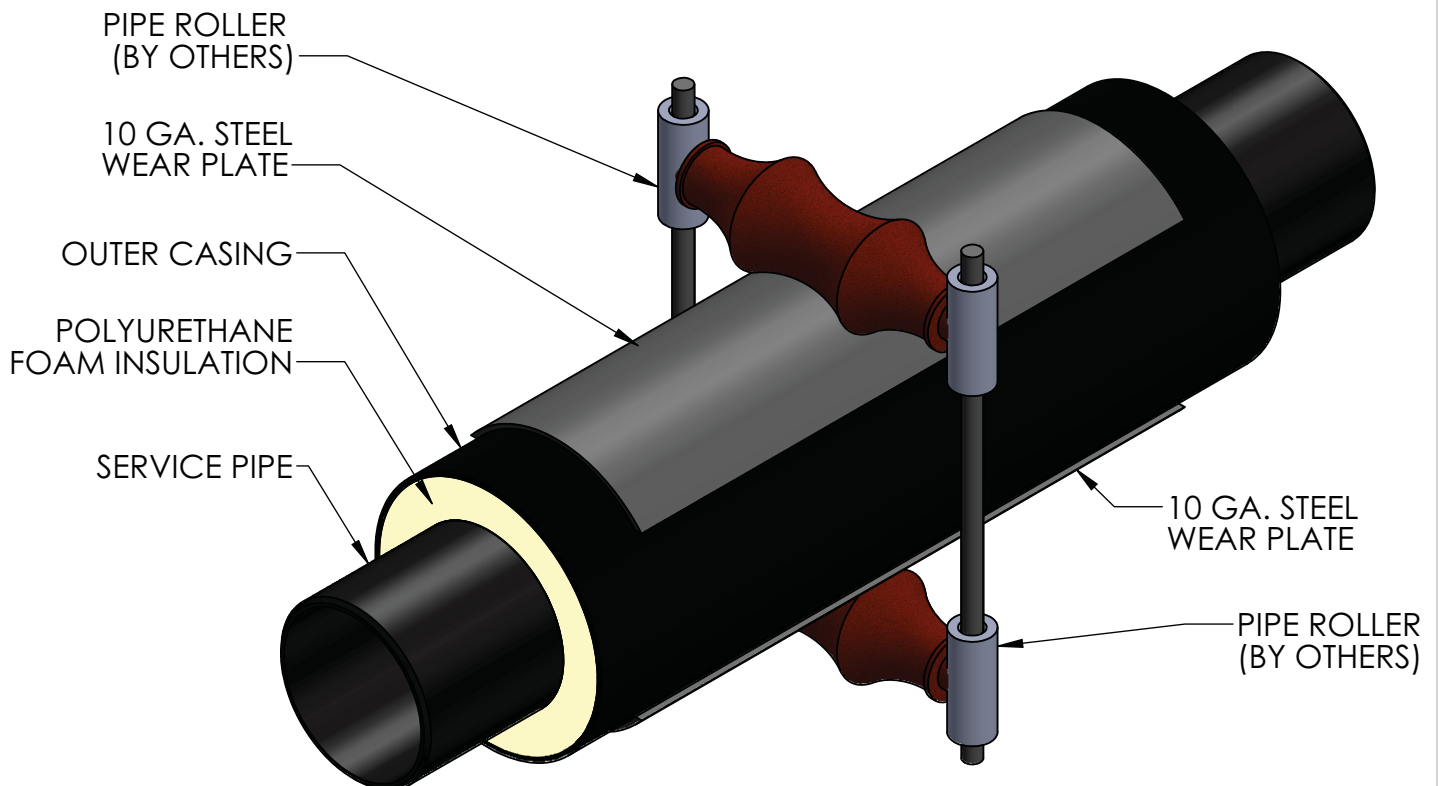
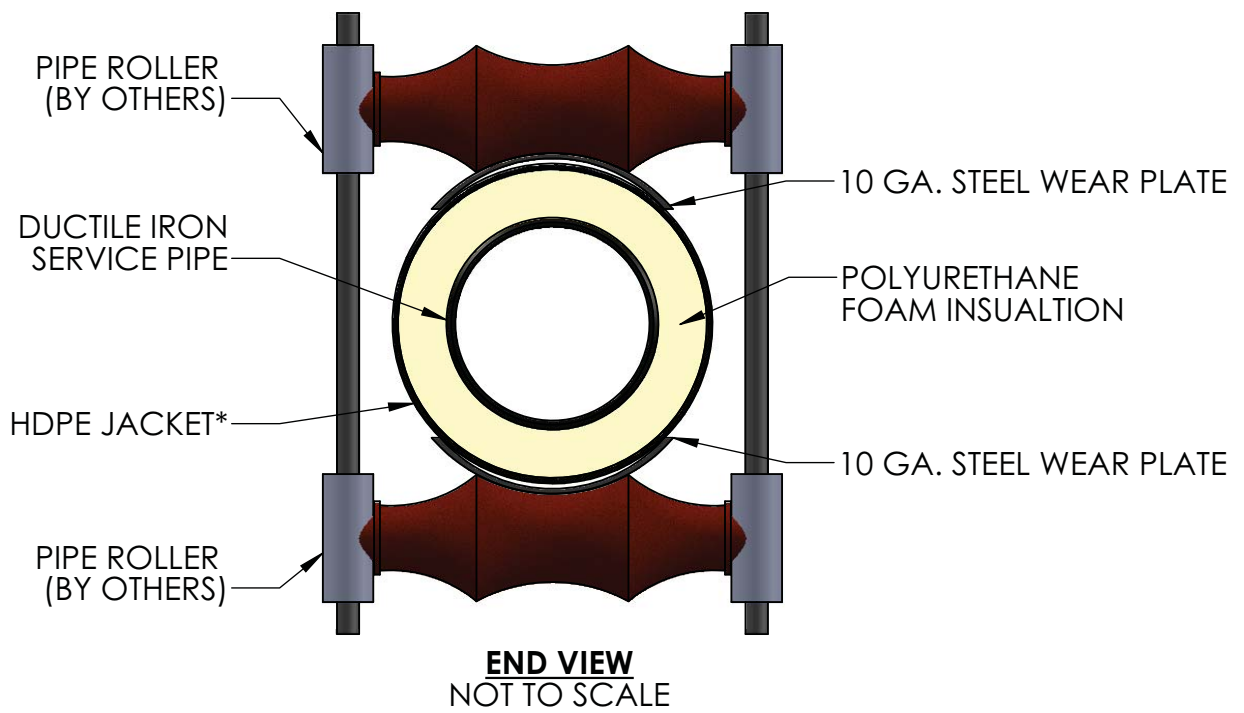
11/01/2016

DWG. NO.

DI-2

SHEET

1 OF 2



* AVAILABLE WITH CHOICE OF HDPE, FRP, PVC OR METAL JACKET UPON REQUEST.



TRICON

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
p (315)697-8787 f (315)697-8788

SHEET TITLE

PIPE ROLLER SUPPORT

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

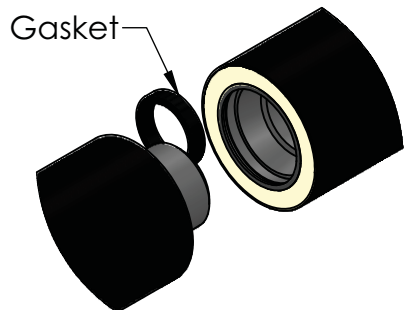
DI-2

SHEET

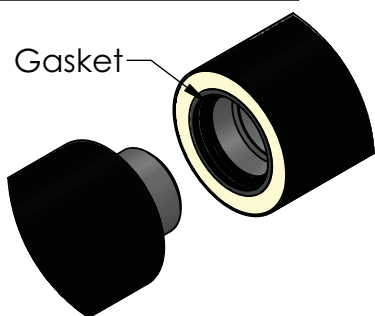
2 OF 2

STEP #1: Gather MaterialsGasket 

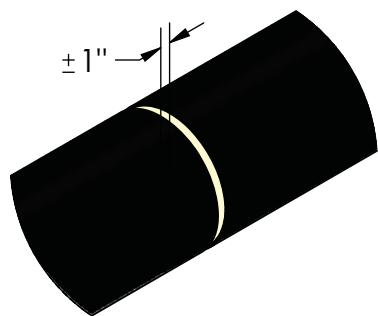
The field joint kit includes: Pressure-sensitive tape

STEP #2: Prepare Pipe & Gasket

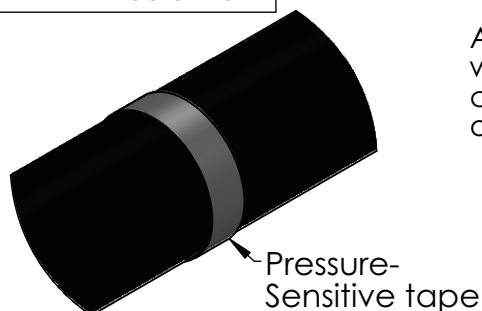
Inspect the gasket and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant. **Do not lubricate the inside of the bell. Do not use petroleum based lubricants.**

STEP #3: Install Gasket

Install the gasket in the pipe socket.

STEP #4: Assemble & Test

Assemble the joint and test as required.

STEP #5: Apply Tape

After joint is tested, seal the joint by placing a wrap of 4" wide cold applied pressure-sensitive tape around the casing. The tape should wrap around the joint once and overlap the starting seam by approximately 2".

**TRICON**

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
 p (315)697-8787 f (315)697-8788

SHEET TITLE

TYTON JOINT FIELD JOINT KIT (HDPE JACKET)

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-2A

SHEET

1 OF 4

DUCTILE IRON SERVICE PIPE
AS SPECIFIED

POLYURETHANE FOAM
INSULATION

HDPE JACKET

MECHANICAL
JOINT 90° ELBOW

URETHANE INSULATED
3 PC. HDPE REMOVABLE
90° ELBOW COVER

AS REQUIRED

AS REQUIRED

HDPE JACKET

MASTIC END SEAL

6" TYP.



TRICON

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P.O. BOX 361, Canastota, NY 13032
p (315)697-8787 f (315)697-8788

SHEET TITLE

PRE-FABRICATED 90-DEGREE ELBOW DETAIL

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

12/01/2016

DWG. NO.

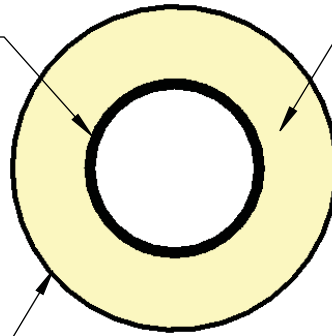
DI-3

SHEET

DUCTILE IRON SERVICE PIPE
AS SPECIFIED

POLYURETHANE FOAM
INSULATION

METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)



MECHANICAL
JOINT 90° ELBOW

URETHANE INSULATED
2 PC. METAL REMOVABLE
90° ELBOW COVER

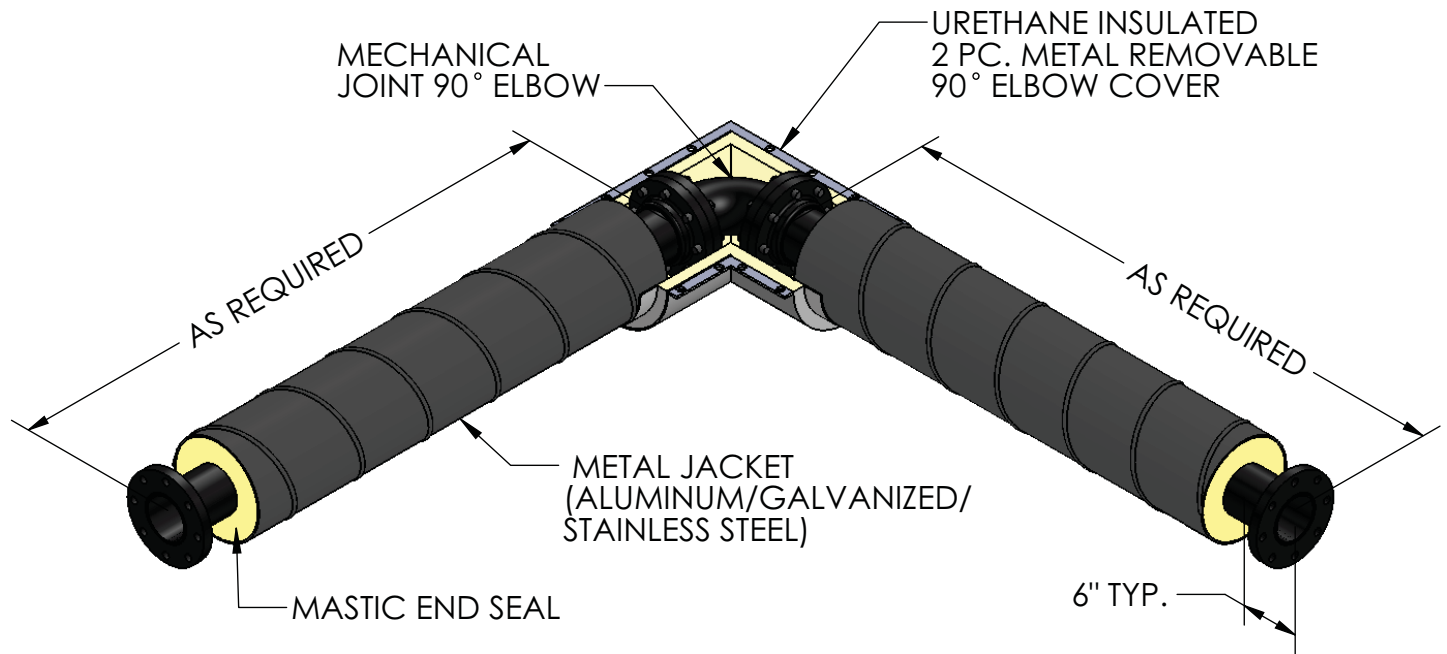
AS REQUIRED

AS REQUIRED

METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)

MASTIC END SEAL

6" TYP.



TRICON

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SHEET TITLE

PRE-FABRICATED 90-DEGREE ELBOW DETAIL

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

12/01/2016

DWG. NO.

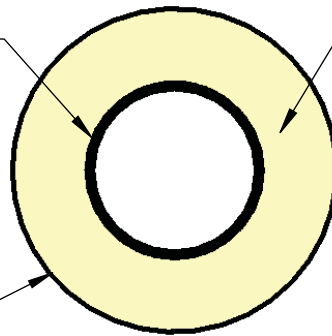
DI-3

SHEET

DUCTILE IRON SERVICE PIPE
AS SPECIFIED

POLYURETHANE FOAM
INSULATION

HDPE JACKET



MECHANICAL
JOINT 45° ELBOW

AS REQUIRED

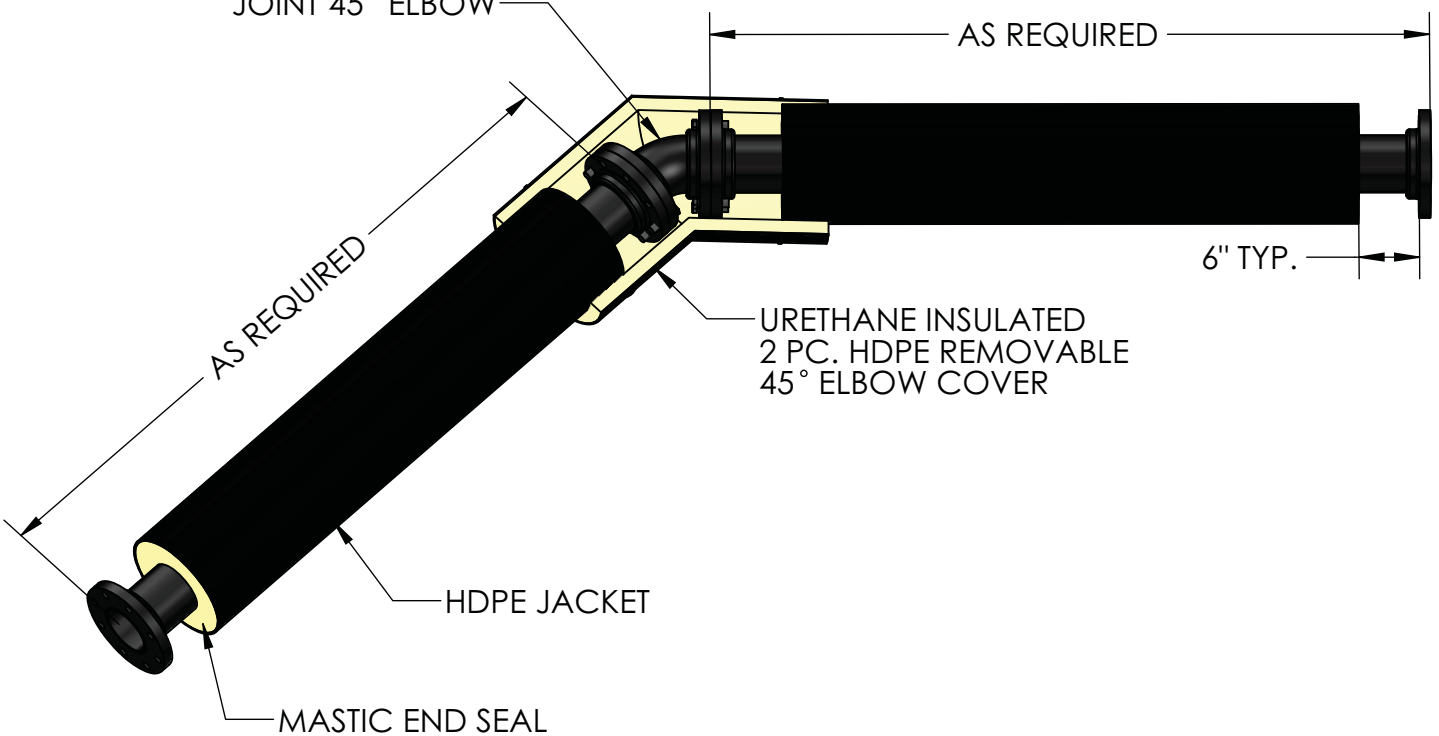
AS REQUIRED

6" TYP.

URETHANE INSULATED
2 PC. HDPE REMOVABLE
45° ELBOW COVER

HDPE JACKET

MASTIC END SEAL



TRICON

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P.O. BOX 361, Canastota, NY 13032
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SHEET TITLE

PRE-FABRICATED 45-DEGREE ELBOW DETAIL

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

12/01/2016

DWG. NO.

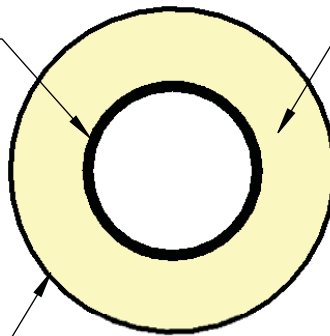
DI-3A

SHEET

DUCTILE IRON SERVICE PIPE
AS SPECIFIED

POLYURETHANE FOAM
INSULATION

METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)



MECHANICAL
JOINT 45° ELBOW

AS REQUIRED

AS REQUIRED

URETHANE INSULATED
2 PC. METAL REMOVABLE
45° ELBOW COVER

6" TYP.

METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)

MASTIC END SEAL



TRICON

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SHEET TITLE

PRE-FABRICATED 45-DEGREE ELBOW DETAIL

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

12/01/2016

DWG. NO.

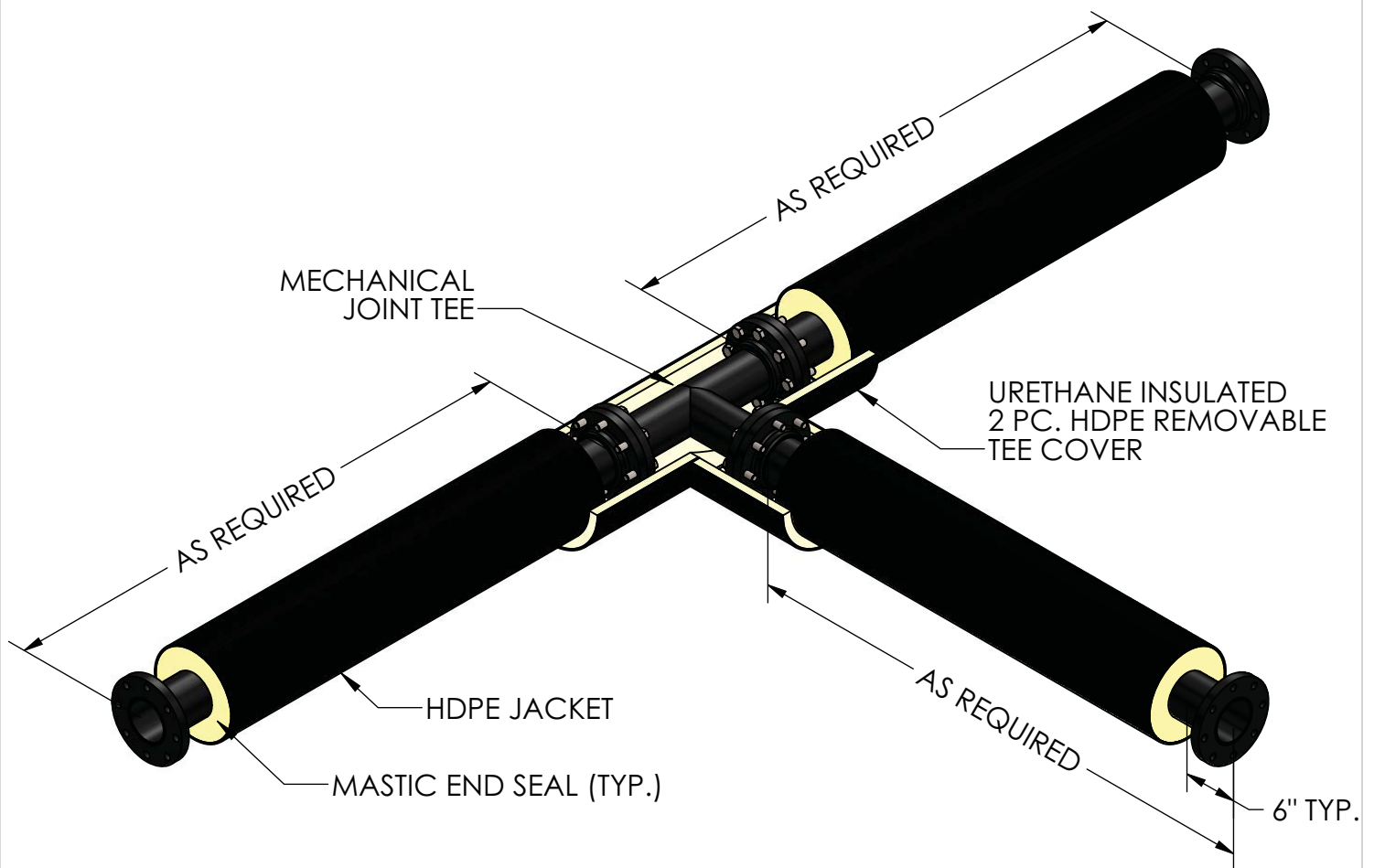
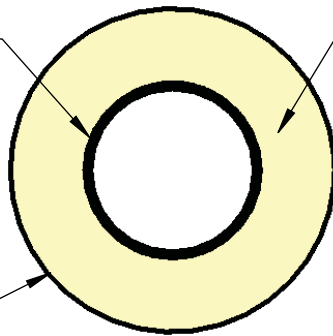
DI-3A

SHEET

DUCTILE IRON SERVICE PIPE
AS SPECIFIED

POLYURETHANE FOAM
INSULATION

HDPE JACKET



TRICON

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P.O. BOX 361, Canastota, NY 13032
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SHEET TITLE

PRE-FABRICATED TEE DETAIL

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

12/01/2016

DWG. NO.

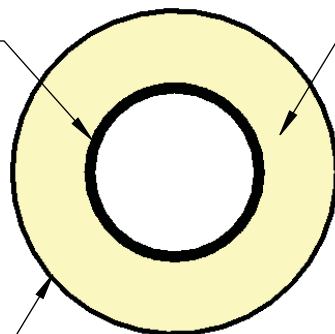
DI-3A

SHEET

DUCTILE IRON SERVICE PIPE
AS SPECIFIED

POLYURETHANE FOAM
INSULATION

METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)



MECHANICAL
JOINT TEE

AS REQUIRED

URETHANE INSULATED
2 PC. METAL REMOVABLE
TEE COVER

AS REQUIRED

METAL JACKET
(ALUMINUM/GALVANIZED/
STAINLESS STEEL)

AS REQUIRED

MASTIC END SEAL (TYP.)

6" TYP.



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SHEET TITLE

PRE-FABRICATED TEE DETAIL

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

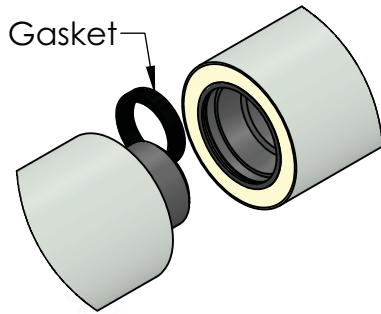
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12/01/2016

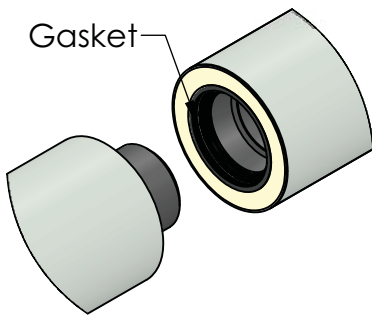
DWG. NO.

DI-3B

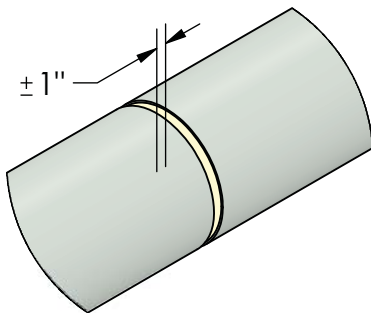
SHEET

STEP #1: Gather MaterialsGasket  The field joint kit includes: Pressure-sensitive tape**STEP #2: Prepare Pipe & Gasket**

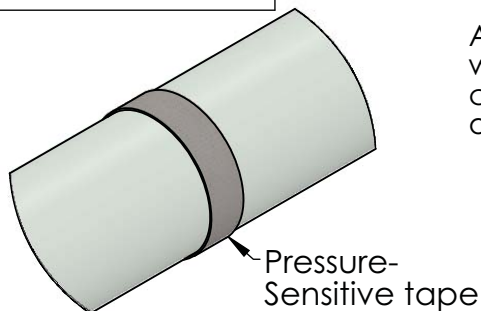
Inspect the gasket and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant. **Do not lubricate the inside of the bell. Do not use petroleum based lubricants.**

STEP #3: Install Gasket

Install the gasket in the pipe socket.

STEP #4: Assemble & Test

Assemble the joint and test as required.

STEP #5: Apply Tape

After joint is tested, seal the joint by placing a wrap of 4" wide cold applied pressure-sensitive tape around the casing. The tape should wrap around the joint once and overlap the starting seam by approximately 2".

STEP #1: Gather Materials

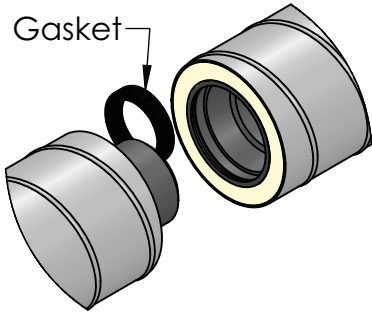
Gasket



The field joint kit includes: Metal Draw-band

STEP #2: Prepare Pipe & Gasket

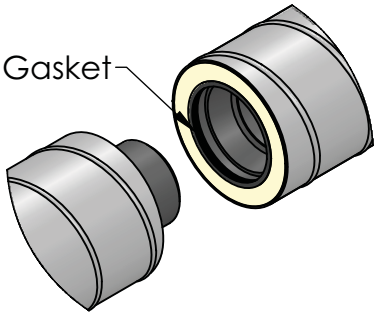
Gasket



Inspect the gasket and remove any debris from inside the pipe. Lubricate pipe ends and the gasket. **Do not lubricate the inside of the bell. Do not use petroleum based lubricants.**

STEP #3: Install Gasket

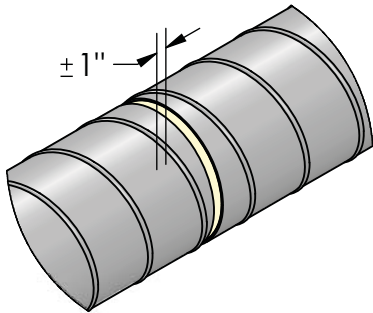
Gasket



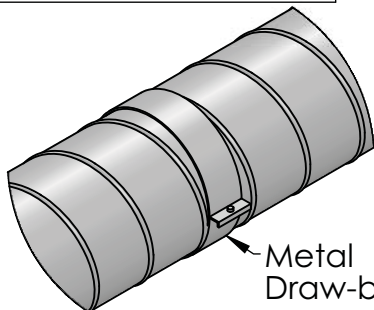
Install the gasket in the pipe socket.

STEP #4: Assemble & Test

± 1"



Assemble the joint and test as required.

STEP #5: Apply Drawband

Metal Draw-band

After joint is tested, put a bead of silicone sealant around the casing 1" from the end. Place wrap around draw band over the joint and tighten bolts.

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Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
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SHEET TITLE

TYTON JOINT FIELD JOINT KIT (METAL JACKET)

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-2A

SHEET

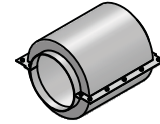
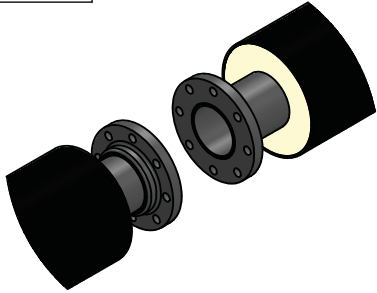
4 OF 4

STEP #1: Gather Materials

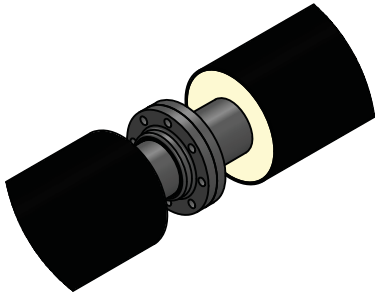
Silicone



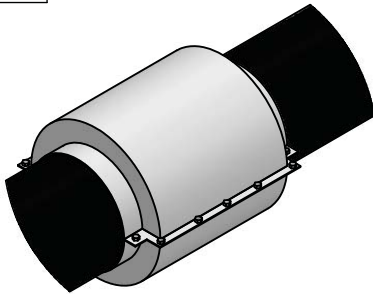
Pre-insulated joint cover

**STEP #2:**

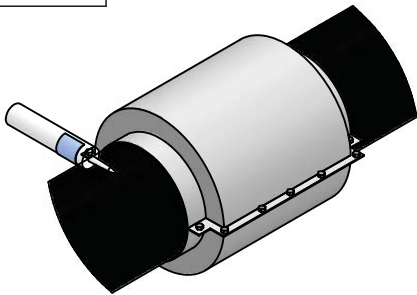
Inspect and remove any debris from inside the pipe. Lubricate pipe ends with DIP lubricant.

STEP #3:

Bolt flanges together and secure in place, Test joints as required.

STEP #4:

After testing of the joints, center 2-pc pre-insulated joint cover in place and dry fit, some trimming might be necessary for a close fit.

STEP #5:

Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and tighten bolts.

**TRICON**

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
p (315)697-8787 f (315)697-8788

SHEET TITLE

Flange X Flange Ductile Iron Field Joint Kit (HDPE Jacket)

PRODUCT

Tricon Ductile

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-3B

SHEET

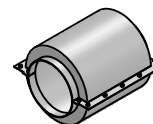
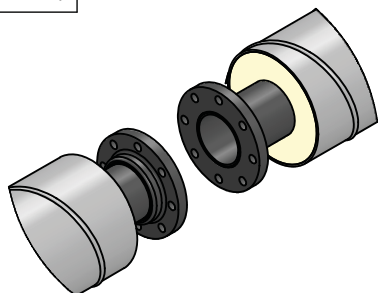
1 OF 3

STEP #1: Gather Materials

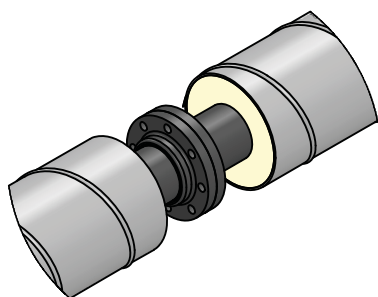
Silicone



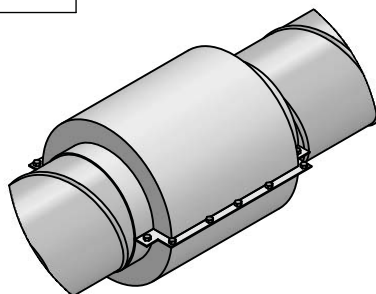
Pre-insulated joint cover

**STEP #2:**

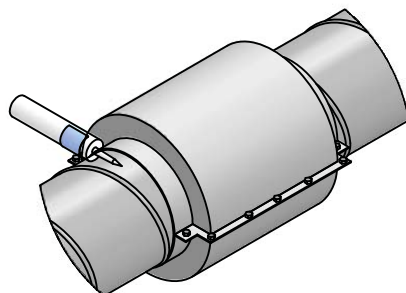
Inspect and remove any debris from inside the pipe. Lubricate pipe ends with DIP lubricant.

STEP #3:

Bolt flanges together and secure in place, Test joints as required.

STEP #4:

After testing of the joints, center 2-pc pre-insulated joint cover in place and dry fit, some trimming might be necessary for a close fit.

STEP #5:

Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and tighten bolts.

**TRICON**

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
 p (315)697-8787 f (315)697-8788

SHEET TITLE

FLANGE X FLANGE DUCTILE IRON FIELD JOINT KIT (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

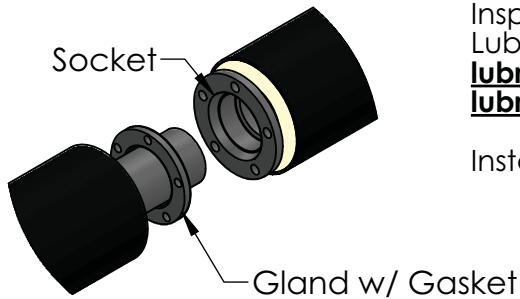
DI-3B

SHEET

3 OF 3

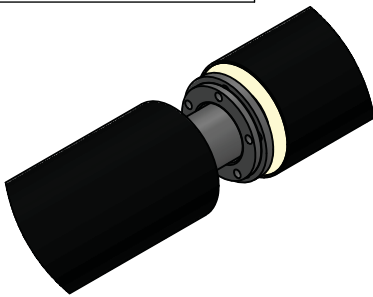
STEP #1: Gather Materials

The field joint kit includes: Preinsulated joint cover

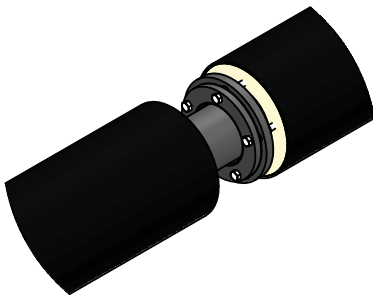
STEP #2: Prepare Pipe & Gasket

Inspect the gasket and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant. **Do not lubricate the inside of the bell. Do not use petroleum based lubricants.**

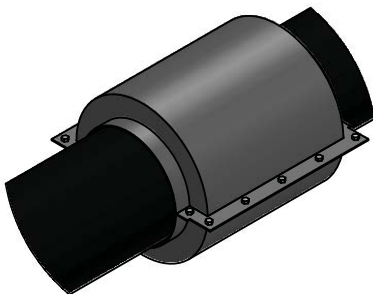
Install gland and gasket on the plain end.

STEP #3: Install Gasket

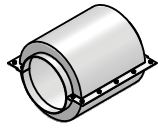
Insert the plain end into the socket end.

STEP #4: Assemble & Test

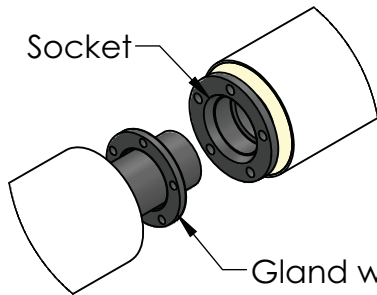
Assemble the joint by tightening bolts and test as required.

STEP #5: Apply Tape

After joint is tested, center the pre-insulated joint cover in place and dry fit. Some trimming may be required for a close fit. Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and tighten bolts.

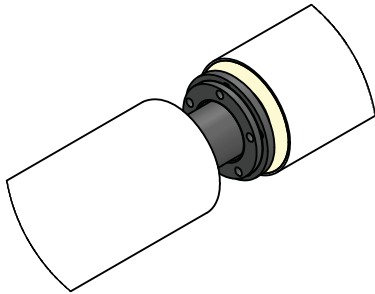
STEP #1: Gather Materials

The field joint kit includes: Preinsulated joint cover

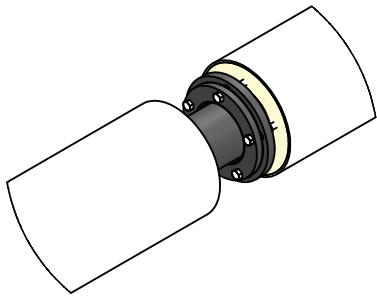
STEP #2: Prepare Pipe & Gasket

Inspect the gasket and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant. **Do not lubricate the inside of the bell. Do not use petroleum based lubricants.**

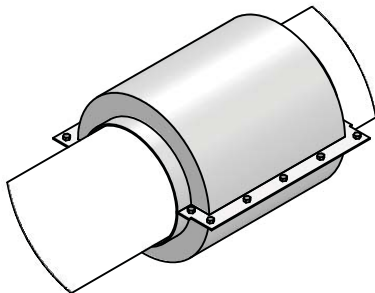
Install gland and gasket on the plain end.

STEP #3: Install Gasket

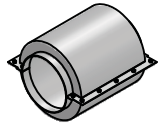
Insert the plain end into the socket end.

STEP #4: Assemble & Test

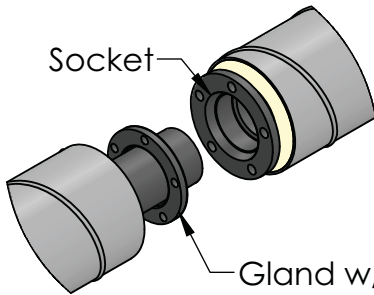
Assemble the joint by tightening bolts and test as required.

STEP #5: Apply Tape

After joint is tested, center the pre-insulated joint cover in place and dry fit. Some trimming may be required for a close fit. Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and tighten bolts.

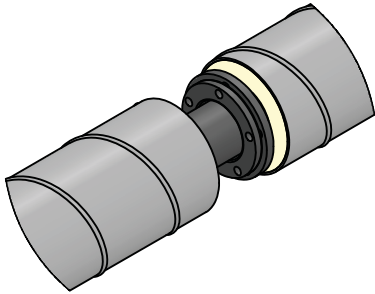
STEP #1: Gather Materials

The field joint kit includes: Preinsulated joint cover

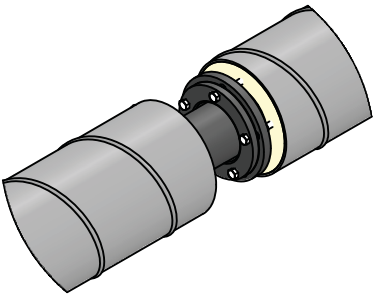
STEP #2: Prepare Pipe & Gasket

Inspect the gasket and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant. **Do not lubricate the inside of the bell. Do not use petroleum based lubricants.**

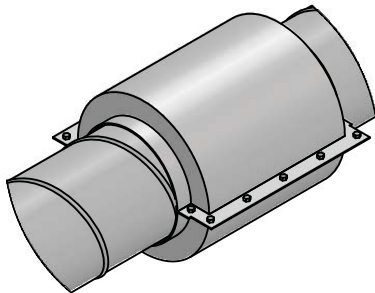
Install gland and gasket on the plain end.

STEP #3: Install Gasket

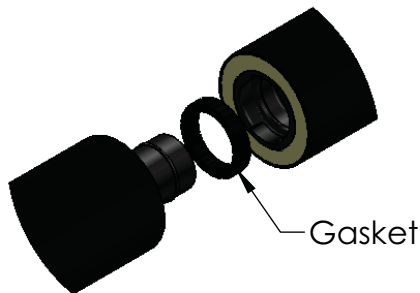
Insert the plain end into the socket end.

STEP #4: Assemble & Test

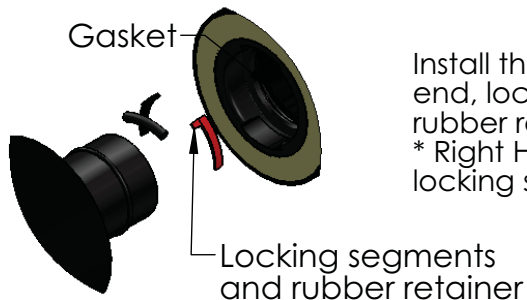
Assemble the joint by tightening bolts and test as required.

STEP #5: Apply Tape

After joint is tested, center the pre-insulated joint cover in place and dry fit. Some trimming may be required for a close fit. Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and tighten bolts.

STEP #1: Gather MaterialsLocking segments/Retainer Gasket HDPE Split Sleeve Nylon Straps **STEP #2: Prepare Pipe & Gasket**

Inspect the gasket seat and remove any foreign material from inside the socket. Lubricate pipe ends and the gasket as directed by U.S. Pipe.

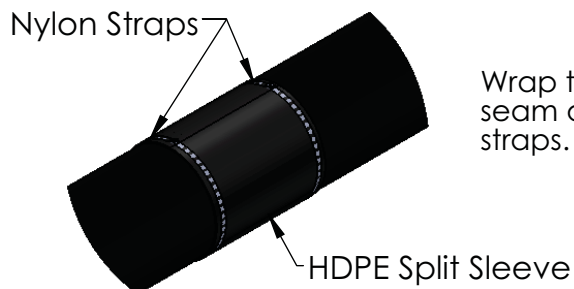
STEP #3: Install Gasket

Install the gasket in the pipe socket. Slide the pipe into the bell end, lock together with the locking segments(as required) and rubber retainer.

* Right Hand locking segments are **RED** in color, and Left Hand locking segments are **BLACK**.

STEP #4: Assemble & Test

Apply precut insulation in place over the joint. Some trimming may be necessary for a close fit.

STEP #5: Apply Tape

Wrap the HDPE rockshield split sleeve around joint with the seam at the 10 or 2 o'clock position. Secure with nylon straps.

**TRICON**

Piping Systems, Inc.®

P.O. BOX 361, Canastota, NY 13032
 p (315)697-8787 f (315)697-8788

SHEET TITLE

TR-FLEX FIELD JOINT KIT (HDPE JACKET)

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

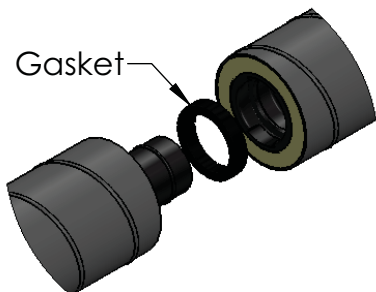
11/01/2016

DWG. NO.

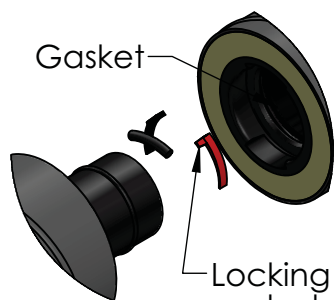
DI-4D

SHEET

1 OF 2

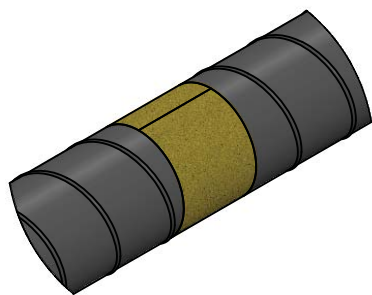
STEP #1: Gather MaterialsLocking segments/Retainer Gasket Aluminum
Draw Band Silicone Sealant **STEP #2: Prepare Pipe & Gasket**

Inspect the gasket seat and remove any foreign material from inside the socket. Lubricate pipe ends and the gasket as directed by U.S. Pipe.

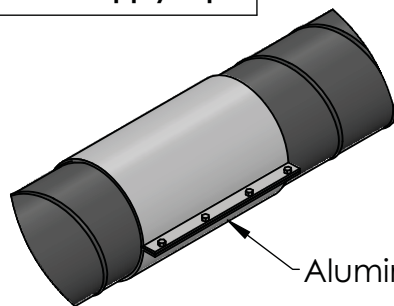
STEP #3: Install Gasket

Install the gasket in the pipe socket. Slide the pipe into the bell end, lock together with the locking segments (as required) and rubber retainer.

* Right Hand locking segments are **RED** in color, and Left Hand locking segments are **BLACK**.

STEP #4: Assemble & Test

Apply precut insulation in place over the joint. Some trimming may be necessary for a close fit.

STEP #5: Apply Tape

Apply a small bead of silicone sealant (supplied by others) around casing 2" from end of casing. Place wrap around draw band over joint and tighten bolts.

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SHEET TITLE

TR-FLEX FIELD JOINT KIT (METAL JACKET)

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-4D

SHEET

2 OF 2

STEP #1: Gather Materials

Gasket



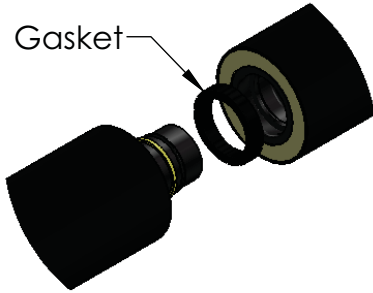
HDPE Split Sleeve



Nylon Straps

**STEP #2: Prepare Pipe & Gasket**

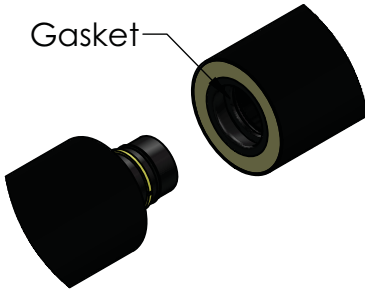
Gasket



Inspect the gasket seat and remove any foreign material from inside the socket. Lubricate pipe ends and the gasket as directed by U.S. Pipe.

STEP #3: Install Gasket

Gasket



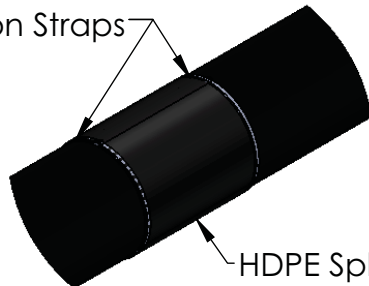
Install the gasket in the pipe socket. Insert pipe into bell end, tap the flex-ring into the socket beginning with one end of the flex ring and progressing around the joint until the entire ring is in the socket. Correct seating is ensured by a snapping noise as the ring snaps into place.

STEP #4: Assemble

Apply precut insulation in place over the joint. Some trimming may be necessary for a close fit.

STEP #5: Apply Rockshield & Straps

Nylon Straps



HDPE Split Sleeve

Wrap the HDPE rockshield split sleeve around joint with the seam at the 10 or 2 o'clock position. Secure with nylon straps.

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SHEET TITLE

FLEX-RING FIELD JOINT KIT (HDPE JACKET)

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-4E

SHEET

1 OF 2

STEP #1: Gather Materials

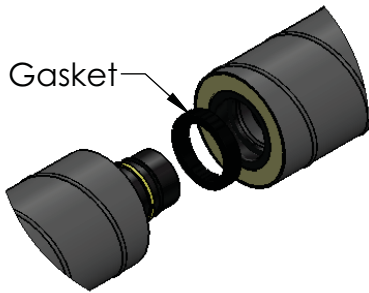
Gasket



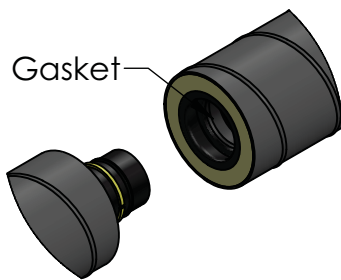
Aluminum Draw Band



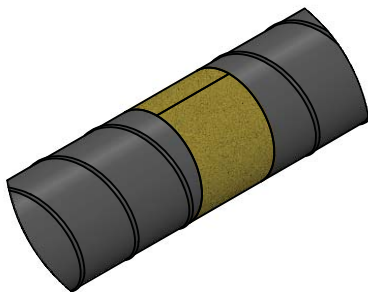
Silicone Sealant

**STEP #2: Prepare Pipe & Gasket**

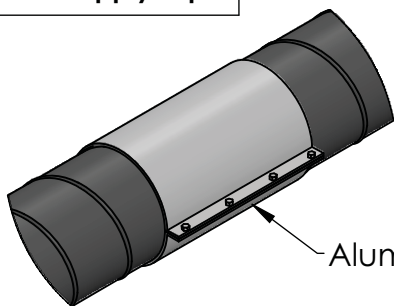
Inspect the gasket seat and remove any foreign material from inside the socket. Lubricate pipe ends and the gasket as directed by U.S. Pipe.

STEP #3: Install Gasket

Install the gasket in the pipe socket. Insert pipe into bell end, tap the flex-ring into the socket beginning with one end of the flex ring and progressing around the joint until the entire ring is in the socket. Correct seating is ensured by a snapping noise as the ring snaps into place.

STEP #4: Assemble & Test

Apply precut insulation in place over the joint. Some trimming may be necessary for a close fit.

STEP #5: Apply Tape

Apply a small bead of silicone sealant (supplied by others) around casing 2" from end of casing. Place wrap around draw band over joint and tighten bolts.

Aluminum Draw Band

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SHEET TITLE

FLEX-RING FIELD JOINT KIT (METAL JACKET)

PRODUCT

TRICON DUCTILE IRON

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-4E

SHEET

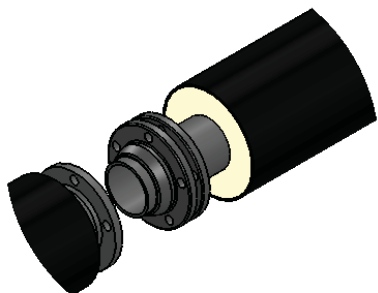
2 OF 2

STEP #1: Gather Materials

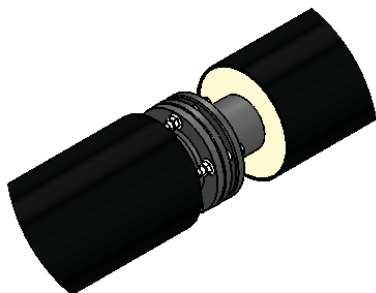
Silicone



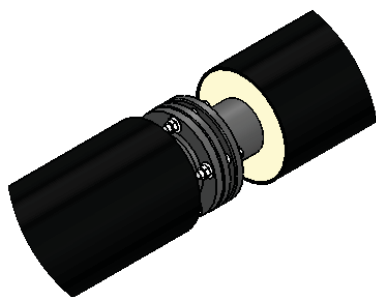
Preinsulated joint cover

**STEP #2: Prepare Pipe & Gasket**

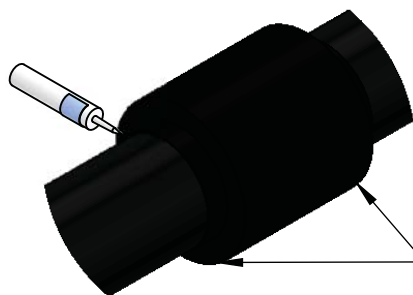
Inspect the pipe and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant.

STEP #3: Install Gasket

Slide the pipes together and insert bolts and install nuts.

STEP #4: Assemble & Test

Assemble the joint by tightening bolts and test as required.

STEP #5: Apply Tape

After joint is tested, center the pre-insulated joint cover in place and dry fit. Some trimming may be required for a close fit. Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and secure with nylon straps.

nylon straps

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SHEET TITLE

MECH-LOK DUCTILE IRON FIELD JOINT KIT (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

DWG. NO.

DI-3F

SHEET

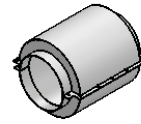
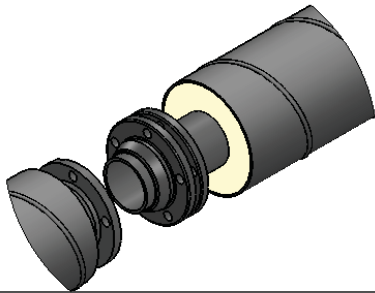
1 OF 2

STEP #1: Gather Materials

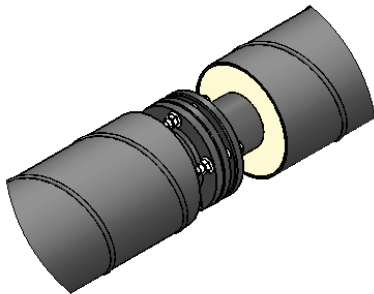
Silicone



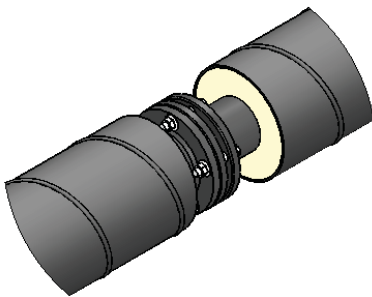
Preinsulated joint cover

**STEP #2: Prepare Pipe & Gasket**

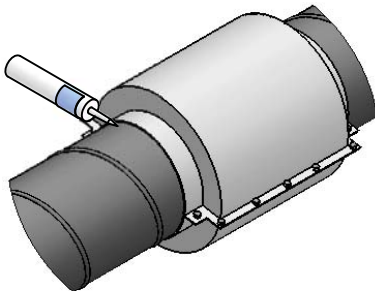
Inspect the pipe and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant.

STEP #3: Install Gasket

Slide the pipes together and insert bolts and install nuts.

STEP #4: Assemble & Test

Assemble the joint by tightening bolts and test as required.

STEP #5: Apply Tape

After joint is tested, center the pre-insulated joint cover in place and dry fit. Some trimming may be required for a close fit. Put a bead of silicone sealant around the casing 1" from each end. Place the two-piece cover over joint and tighten bolts.

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SHEET TITLE

MECH-LOK DUCTILE IRON FIELD JOINT KIT (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

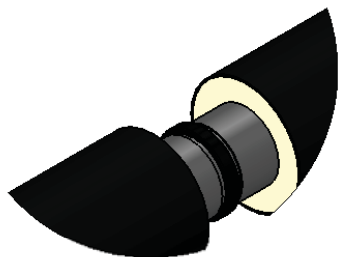
11/01/2016

DWG. NO.

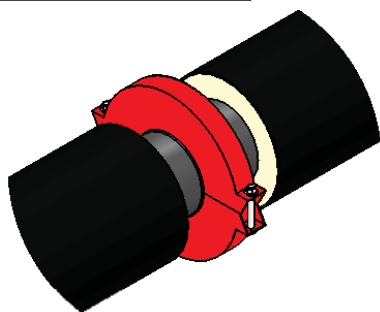
DI-3F

SHEET

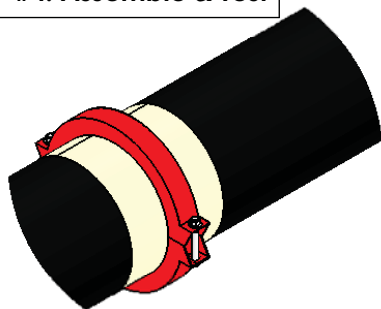
2 OF 2

STEP #1: Gather MaterialsGasket Coupling Foam insulation
(cut to fit) Victaulic coupling cover **STEP #2: Prepare Pipe & Gasket**

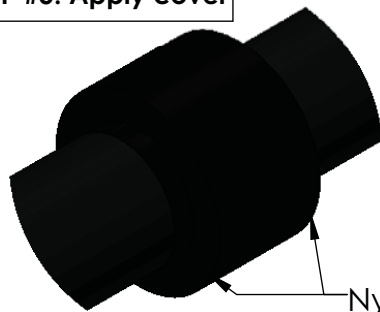
Inspect the pipe and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant, and install gasket.

STEP #3: Install Gasket

Position the victaulic coupling in grooves covering the gasket, tighten bolts to secure. Test all joints as required.

STEP #4: Assemble & Test

After joint is tested, wrap fiberglass insulation around coupling.

STEP #5: Apply cover

Position and secure coupling cover with nylon strap.

Nylon Straps



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p (315)697-8787 f (315)697-8788

SHEET TITLE

GROOVE X GROOVE DUCTILE IRON FIELD JOINT KIT (HDPE JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

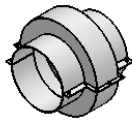
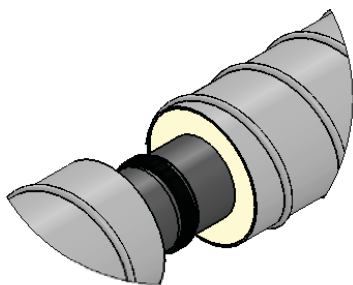
11/01/2016

DWG. NO.

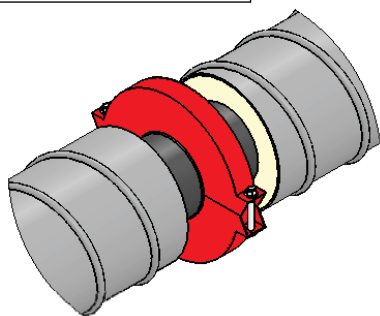
DI-3G

SHEET

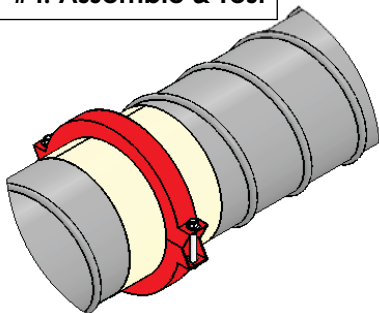
1 OF 2

STEP #1: Gather MaterialsGasket Coupling Foam insulation
(cut to fit) Victaulic coupling cover **STEP #2: Prepare Pipe & Gasket**

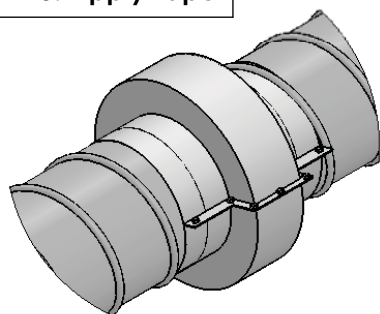
Inspect the pipe and remove any debris from inside the pipe. Lubricate pipe ends and the gasket with DIP lubricant, and install gasket.

STEP #3: Install Gasket

Position the victaulic coupling in grooves covering the gasket, tighten bolts to secure. Test all joints as required.

STEP #4: Assemble & Test

After joint is tested, wrap fiberglass insulation around coupling.

STEP #5: Apply Tape

Position and secure coupling cover by tightening bolts.

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SHEET TITLE

GROOVE X GROOVE DUCTILE IRON FIELD JOINT KIT (METAL JACKET)

PRODUCT

TRICON DUCTILE

SIZE

A

SCALE

NTS

DATE

11/01/2016

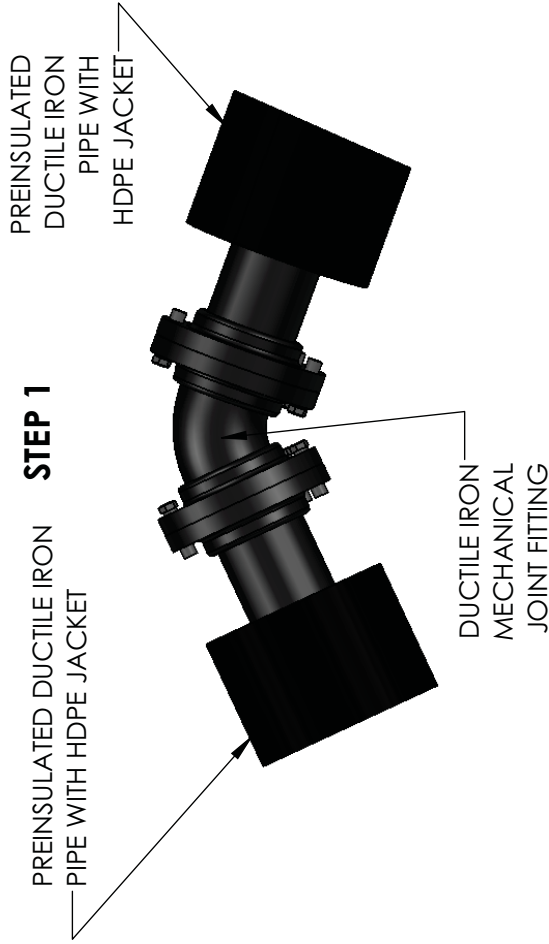
DWG. NO.

DI-3G

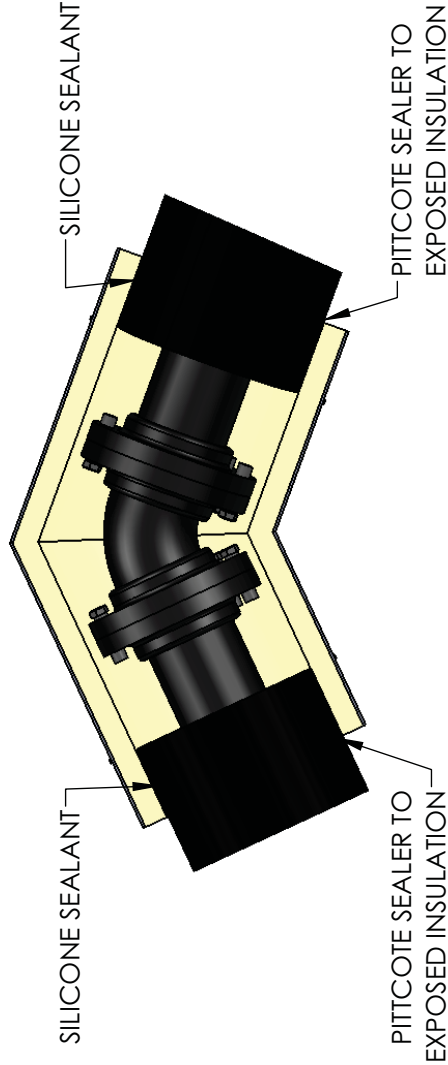
SHEET

2 OF 2

STEP 1

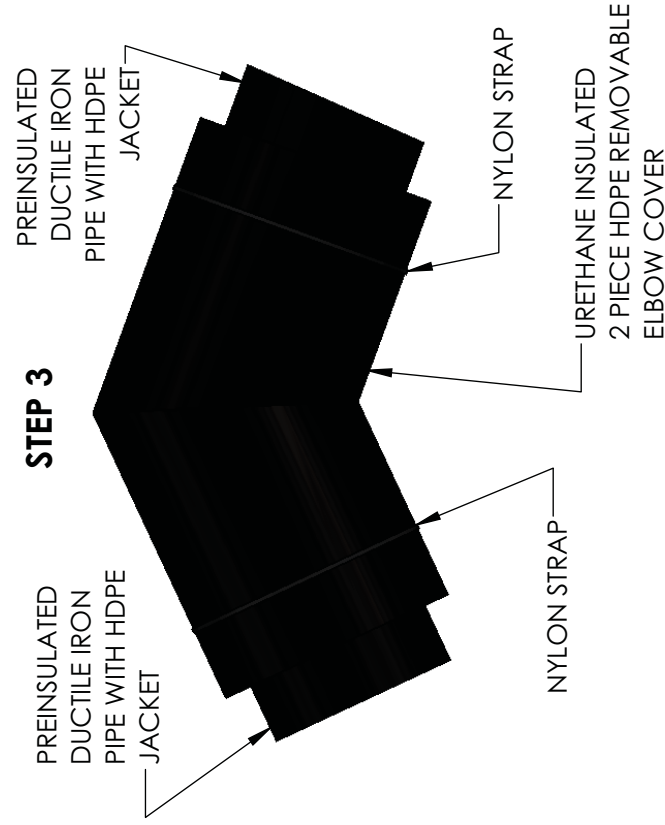


STEP 2



1. TAKE BOTH HALVES OF THE INSULATED ELBOW COVER AND PLACE OVER FITTING AND OVERLAP ONTO STRAIGHT LENGTH FOR A DRY FIT.
2. APPLY A 3/8" BEAD OF SILICONE (SUPPLIED BY OTHERS) AROUND HDPE JACKET AND ON THE TWO HALVES, REAPPLY FITTING COVER.
3. APPLY THE PITTCOTE SEALER TO ALL EXPOSED ENDS OF INSULATION.

STEP 3



1. SECURE FITTING COVER IN PLACE WITH SILICONE SEALANT.
2. APPLY NYLON STRAPS AND SECURE.

FIELD APPLIED FITTING COVER (BELOW GRADE)

TRICON DUCTILE IRON	DATE	12/01/2016	DWG. NO.	DI-4
	REV.	0	SHEET	1 OF 2

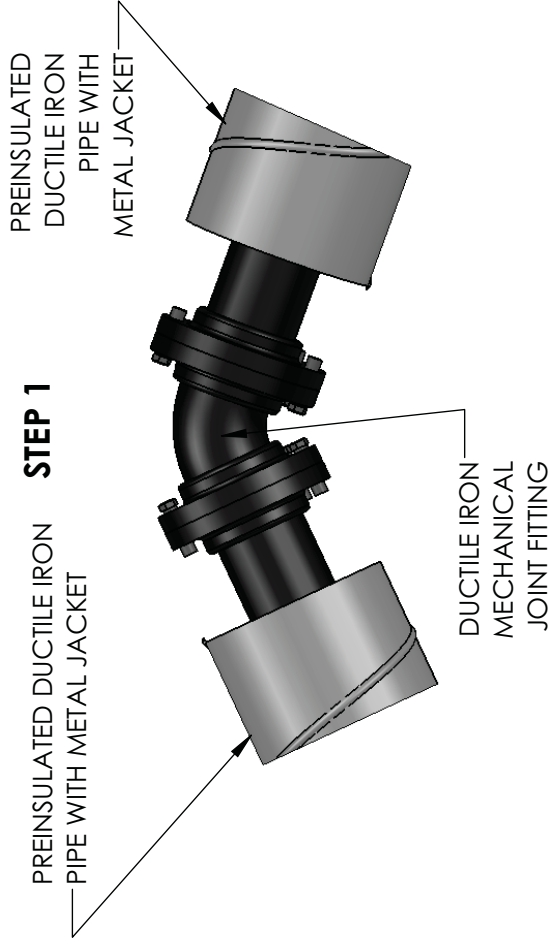


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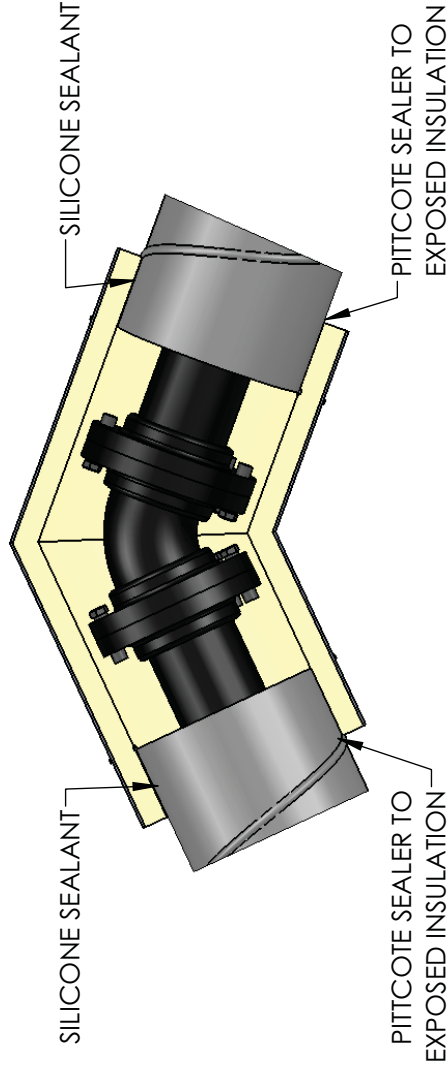
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STEP 1

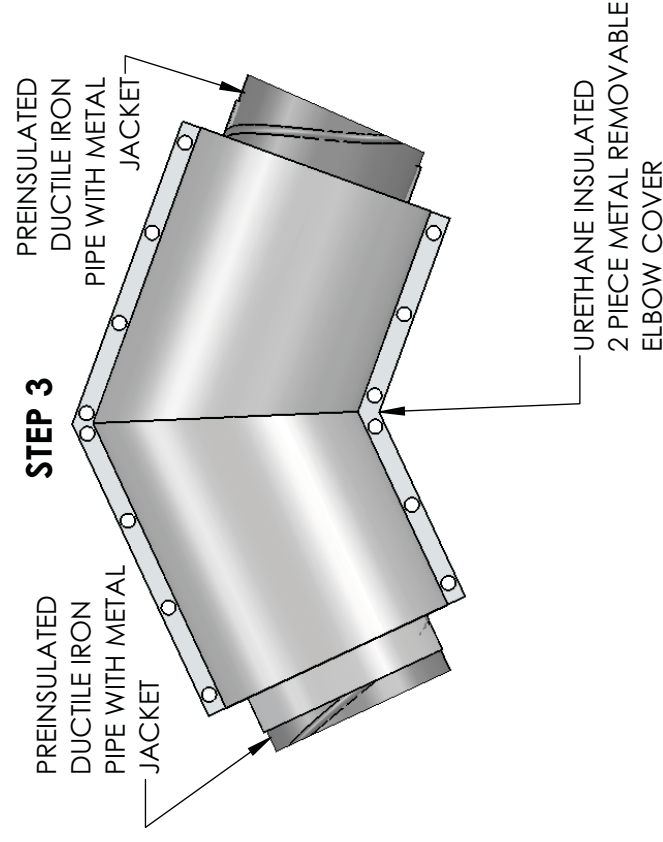


STEP 2



1. TAKE BOTH HALVES OF THE INSULATED ELBOW COVER AND PLACE OVER FITTING AND OVERLAP ONTO STRAIGHT LENGTH FOR A DRY FIT.
2. APPLY A 3/8" BEAD OF SILICONE (SUPPLIED BY OTHERS) AROUND METAL JACKET AND ON THE TWO HALVES, REAPPLY FITTING COVER.
3. APPLY THE PITTCOTE SEALER TO ALL EXPOSED ENDS OF INSULATION.

STEP 3



1. SECURE FITTING COVER IN PLACE WITH SILICONE SEALANT.
2. TIGHTEN BOLTS TO SECURE.

FIELD APPLIED FITTING COVER (ABOVE GRADE)

TRICON DUCTILE IRON	DATE	12/01/2016	DWG. NO.	DI-4
	REV.	0	SHEET	2 OF 2

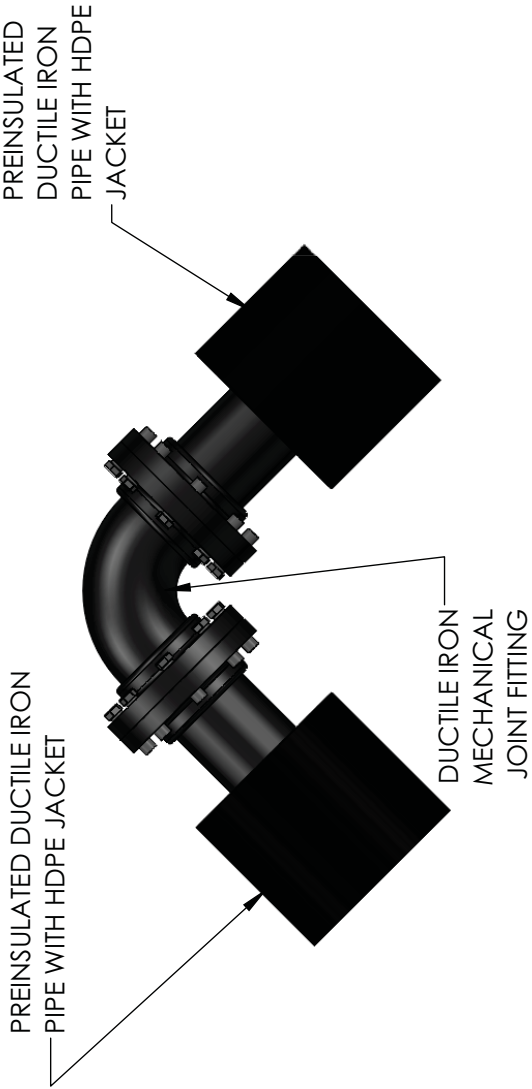


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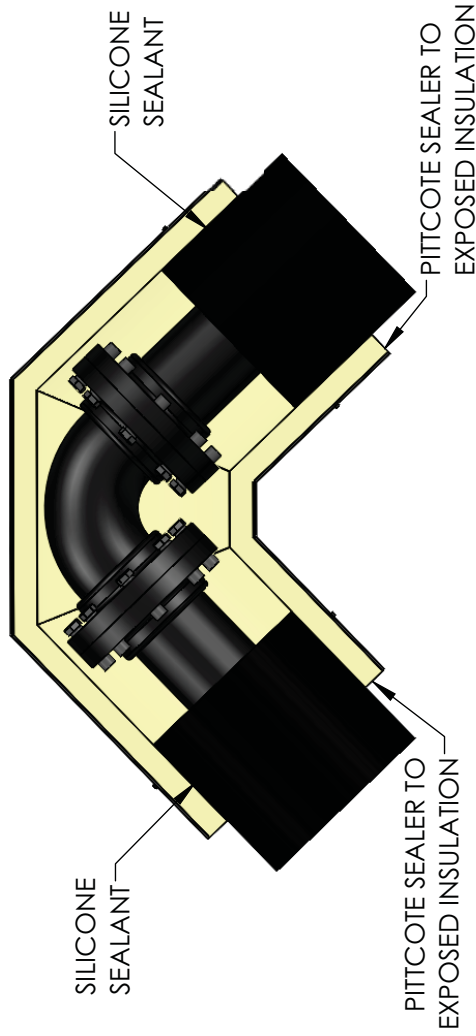
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STEP 1

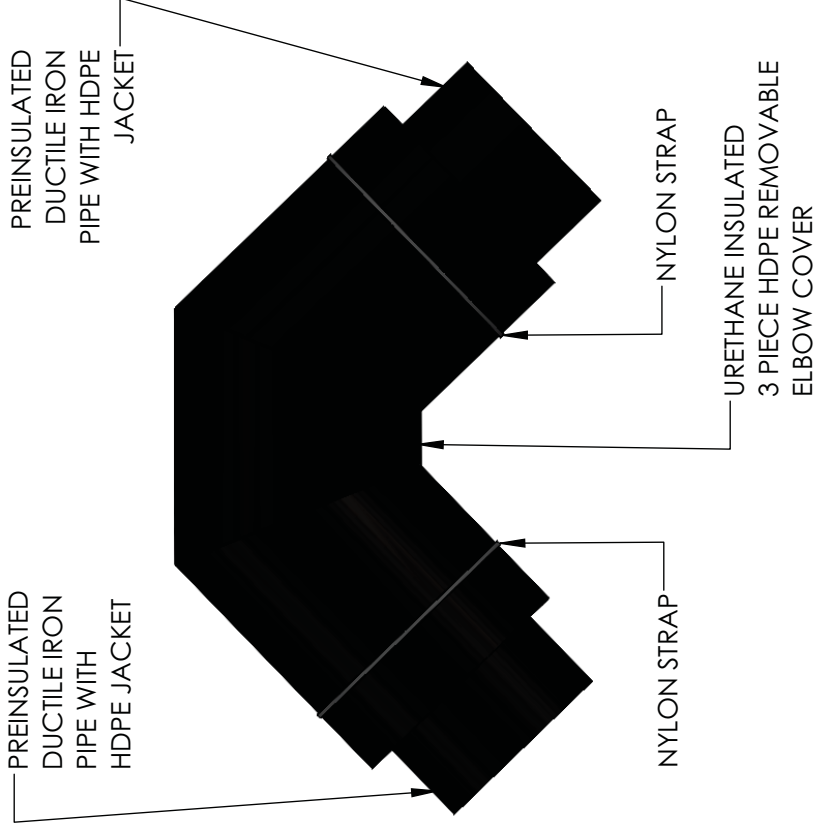


STEP 2



1. TAKE BOTH HALVES OF THE INSULATED ELBOW COVER AND PLACE OVER FITTING AND OVERLAP ONTO STRAIGHT LENGTH FOR A DRY FIT.
2. APPLY A 3/8" BEAD OF SILICONE (SUPPLIED BY OTHERS) AROUND HDPE JACKET AND ON THE TWO HALVES, REAPPLY FITTING COVER.
3. APPLY THE PITTCOTE SEALER TO ALL EXPOSED ENDS OF INSULATION.

STEP 3



1. SECURE FITTING COVER IN PLACE WITH SILICONE SEALANT.
2. APPLY NYLON STRAPS AND SECURE.

FIELD APPLIED FITTING COVER (BELOW GRADE)

TRICON DUCTILE IRON	DATE	12/01/2016	DWG. NO.	DI-5
	REV.	0	SHEET	1 OF 2



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STEP 1

PREINSULATED DUCTILE IRON PIPE WITH METAL JACKET

DUCTILE IRON MECHANICAL JOINT FITTING

PREINSULATED DUCTILE IRON PIPE WITH METAL JACKET



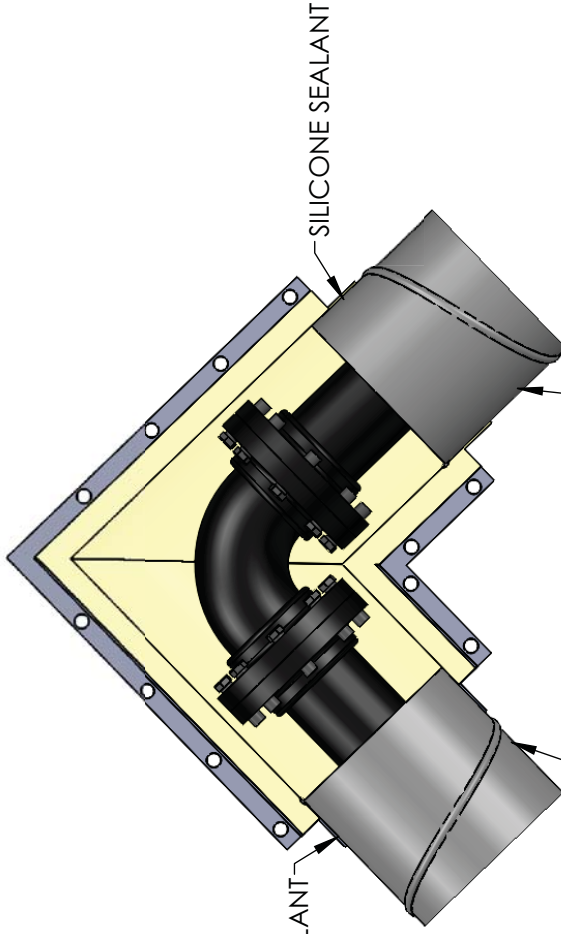
STEP 2

SILICONE SEALANT

SILICONE SEALANT

PITTCOTE SEALER TO EXPOSED INSULATION

PITTCOTE SEALER TO EXPOSED INSULATION



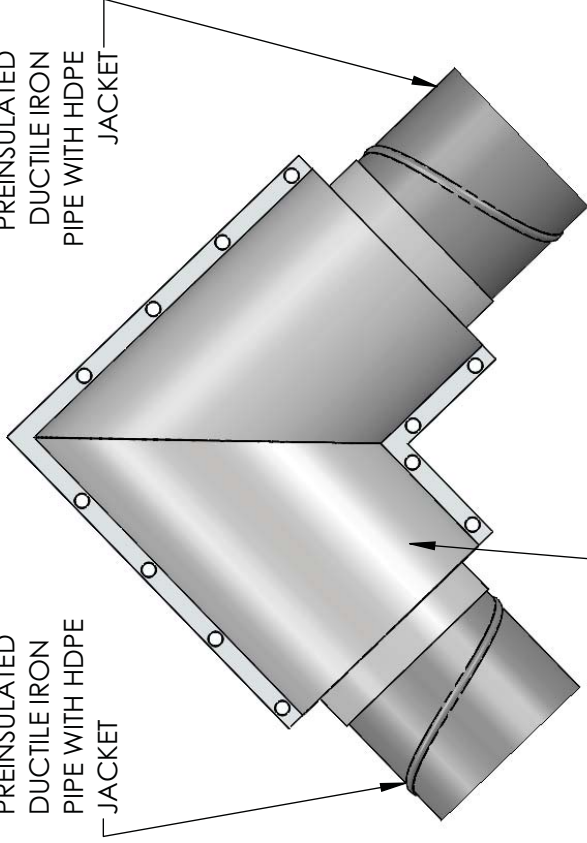
1. TAKE BOTH HALVES OF THE INSULATED ELBOW COVER AND PLACE OVER FITTING AND OVERLAP ONTO STRAIGHT LENGTH FOR A DRY FIT.
2. APPLY A 3/8" BEAD OF SILICONE (SUPPLIED BY OTHERS) AROUND METAL JACKET AND ON THE TWO HALVES, REAPPLY FITTING COVER.
3. APPLY THE PITTCOTE SEALER TO ALL EXPOSED ENDS OF INSULATION.

STEP 3

PREINSULATED DUCTILE IRON PIPE WITH HDPE JACKET

PREINSULATED DUCTILE IRON PIPE WITH HDPE JACKET

URETHANE INSULATED 2 PIECE METAL REMOVABLE ELBOW COVER



1. SECURE FITTING COVER IN PLACE WITH SILICONE SEALANT.
2. TIGHTEN BOLTS TO SECURE.

FIELD APPLIED FITTING COVER (ABOVE GRADE)

TRICON DUCTILE IRON	DATE	12/01/2016	DWG. NO.	DI-5
	REV.	0	SHEET	2 OF 2

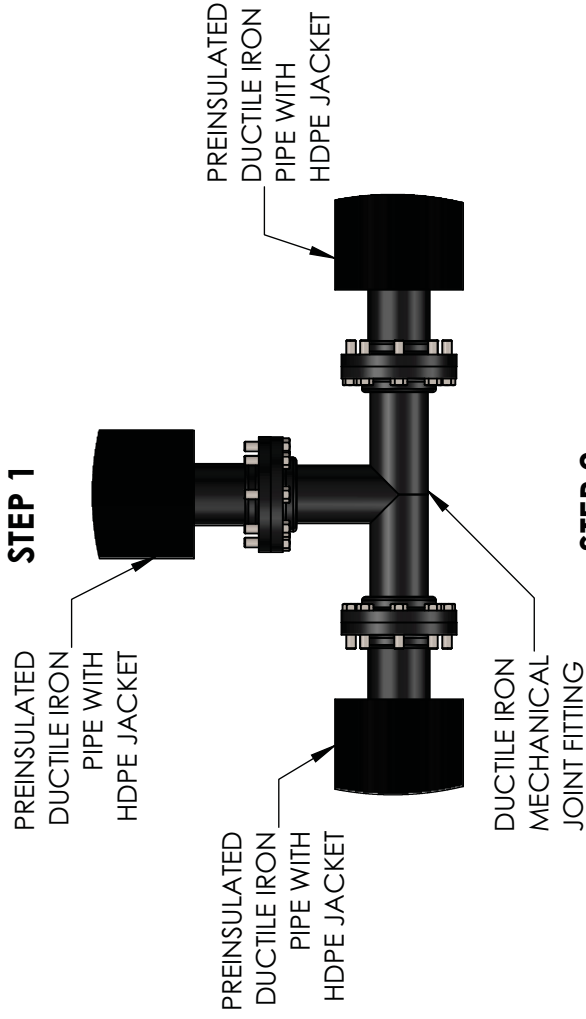


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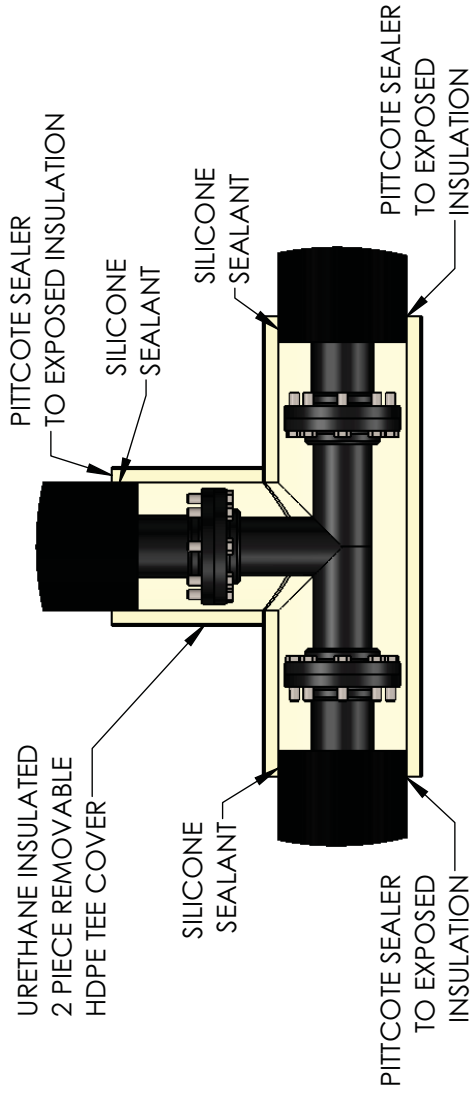
Piping Systems, Inc.®

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STEP 1

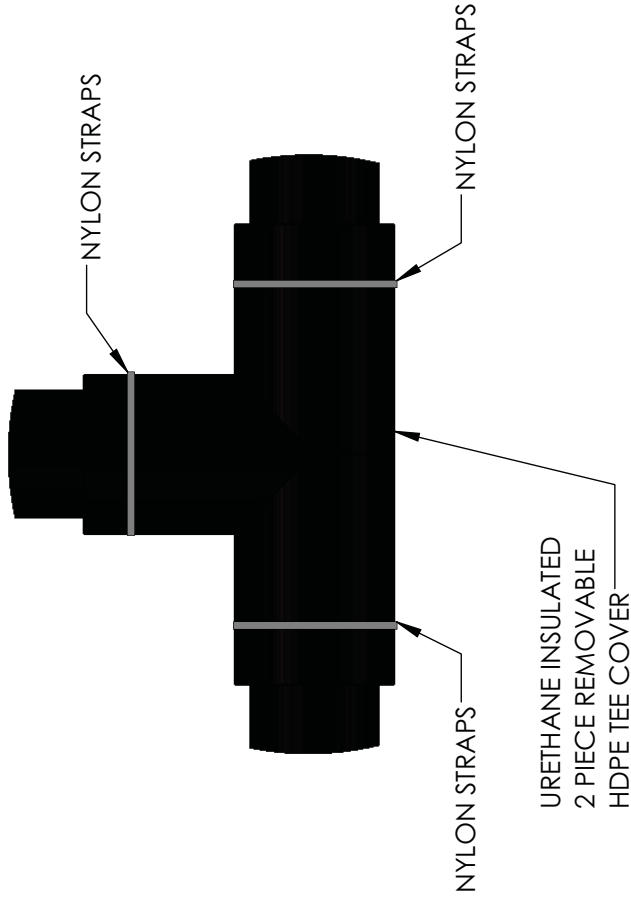


STEP 2



1. TAKE BOTH HALVES OF THE INSULATED TEE COVER AND PLACE OVER FITTING AND OVERLAP ONTO STRAIGHT LENGTH FOR A DRY FIT.
2. APPLY A 3/8" BEAD OF SILICONE (SUPPLIED BY OTHERS) AROUND HDPE JACKET AND ON THE TWO HALVES, REAPPLY FITTING COVER.
3. APPLY THE PITTCOTE SEALER TO ALL EXPOSED ENDS OF INSULATION.

STEP 3



1. SECURE FITTING COVER IN PLACE WITH SILICONE SEALANT.
2. APPLY NYLON STRAPS AND SECURE.

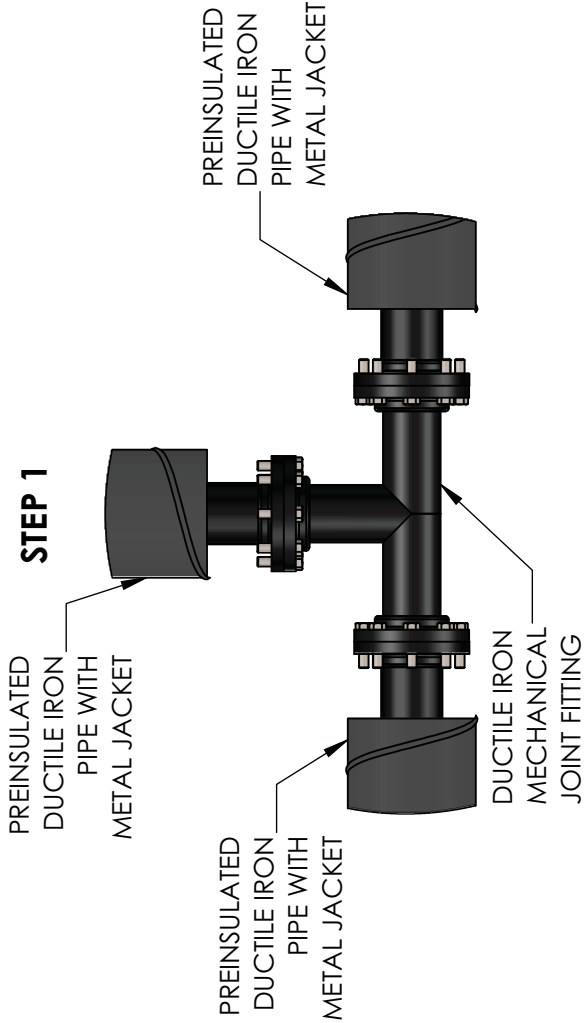
FIELD APPLIED FITTING COVER (BELOW GRADE)

TRICON DUCTILE IRON	DATE	12/01/2016	DWG. NO.	DI-6
	REV.	0	SHEET	1 OF 2

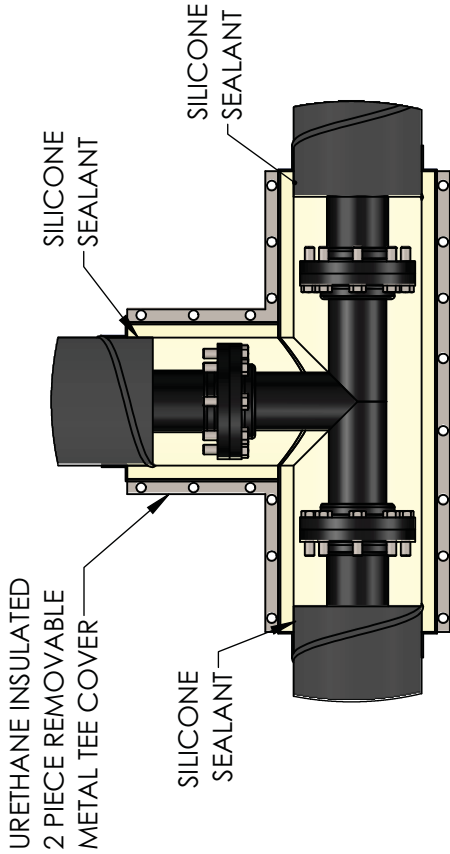


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STEP 1

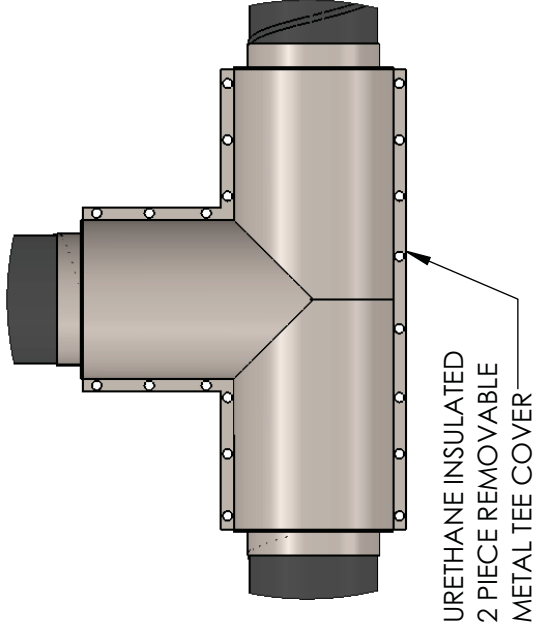


STEP 2



1. TAKE BOTH HALVES OF THE INSULATED ELBOW COVER AND PLACE OVER FITTING AND OVERLAP ONTO STRAIGHT LENGTH FOR A DRY FIT.
2. APPLY A 3/8" BEAD OF SILICONE (SUPPLIED BY OTHERS) AROUND METAL JACKET AND ON THE TWO HALVES, REAPPLY FITTING COVER.

STEP 3



1. SECURE FITTING COVER IN PLACE WITH SILICONE SEALANT.
2. TIGHTEN BOLTS TO SECURE.

FIELD APPLIED FITTING COVER (ABOVE GRADE)

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