



**FORTILINE Waterworks
Treatment Plant Group**

7025 Northwinds Drive, NW
Concord, NC 28027
Phone: (704) 788-9800 Fax: (704) 788-9893

August 24, 2020

Dondlinger Construction
2656 S. Sheridan Ave
PO Box 398
Wichita, KS 67201

Hess Pump Station Valve Replacement

SUBMITTAL

This is to certify that the material being furnished on this project will comply with the following standards:

<u>Product</u>	<u>Standards</u>	<u>Tab # for Cut Sheets</u>
STEEL COUPLINGS	Smith Blair Style 411 Couplings for Steel Pipe Epoxy Coated, Alloy Bolts/Nuts	1
FLANGE KITS	Cloth Inserted SBR Rubber Gaskets A193-B7 Heavy Hex Bolts & A194 Grade 2 H Heavy Hex Nuts FluoroKote Coating	2
QUALITY ASSURANCE	Testing for all material meets or exceeds that required by the ANSI/AWWA/ASTM standards listed above. Markings as required by ANSI/AWWA/ASTM Standards.	

Please note ANSI/AWWA/ASTM standards listed are the latest revisions as of this date.

When projects require ARRA, Buy American or Domestic Only, some minor components and joint material will be from non-domestic sources.

Sincerely,

Sonny Gray

SUBMITTAL REVIEW

APPROVED

APPROVED AS NOTED

If checked above, fabrication MAY be undertaken and re-submittal is not required unless specifically noted in the correction comments. Review does not authorize changes to Contract Sum unless stated in a Change Order.

If checked below, fabrication MAY NOT be undertaken. Resubmit corrected copies for final approval. Correction shall be limited to items marked.

REVISE AND RESUBMIT

REJECTED

5/10

Approval is only for general conformance with the design concept of the project. Contractor at all times remains responsible for compliance with the Contract Documents. Deviations are not approved unless Contractor has in writing called Engineer's attention to such deviation at the time of submission and Engineer has in writing approved the specific deviation. No acceptance by Engineer relieves Contractor from responsibility for errors or omissions in Compliance Submittals.



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

BY Trevor Kaufman DATE 12/9/2020

TAB 1

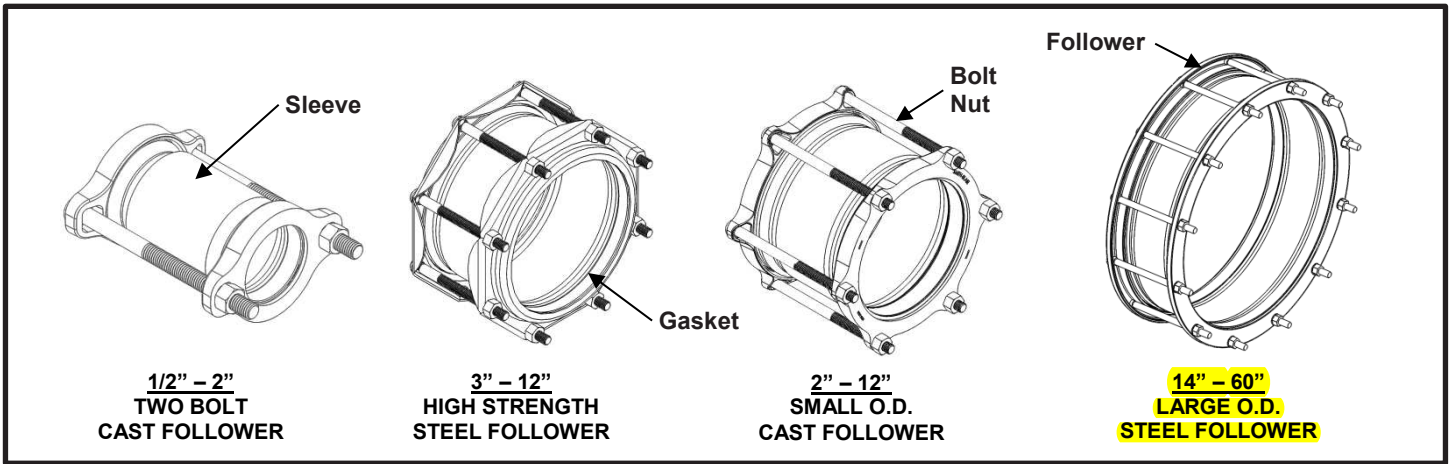


Smith-Blair
a xylem brand

SPECIFICATION

STEEL COUPLING

MODEL 411



APPLICATIONS

- **Typical Uses**
 - Joining plain-end pipe of same outside diameters
 - Replace split or excessively damaged pipe
- **Standard Pipe Sizes**
 - 1/2" to 60" nominal
- **Type of Pipe**
 - Carbon Steel, Stainless Steel, Ductile Iron, Asbestos Cement, PVC, HDPE (see notes), Copper
- **Working Pressure**
 - 1/2" – 16" nominal pipe size(s) = 300 psi
 - 18" – 36" nominal pipe size(s) = 250 psi
 - 42" nominal pipe size(s) and larger are rated based on application

Required Sizes and Counts

30"	7 EACH
42"	7 EACH
48"	12 EACH
60"	6 EACH
72"	4 EACH

Verify Quantities,
Do not appear
correct

Verify pressure ratings are 150 psi minimum

MATERIALS

- **Followers** (see catalog for specific follower design)
 - **Cast Follower**
 - Cast using Ductile Iron 65-45-12 per ASTM A536
 - Flexi-Coat® fusion bonded epoxy finish
 - Permanently marked with part number and pipe size range
 - **Z-Section Follower**
 - HSLA Carbon Steel GR80 per ASTM A1011
 - Flexi-Coat® fusion bonded epoxy finish
 - **Steel Follower**
 - Carbon Steel C1020 per ASTM A576
 - Flexi-Coat® fusion bonded epoxy finish
- **Sleeve**
 - Material: 1/2" – 5" nominal pipe size(s) = Carbon Steel per ASTM A513 or A53
 - 6" – 60" nominal pipe size(s) = Carbon Steel per ASTM A283C
 - Flexi-Coat® fusion bonded epoxy finish
 - Larger O.D. sleeves provided with hanging ring(s)



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SPECIFICATION STEEL COUPLING MODEL 411

- **Gasket**
 - Nitrile (Buna-N) per ASTM D2000
 - Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
 - Temperature range: -20°F to +180°F
 - For ductile iron and asbestos cement pipe sizes, the gaskets sealing surface has molded in ribs
 - Permanently marked with part number and pipe size range
- **Bolts**
 - Material: 1/2" hardware = Carbon Steel per ASTM A307
5/8" hardware = High Strength Low Alloy (HSLA) Steel per AWWA C111/A21.11
 - Coating: 1/2" hardware = Fe/Zn coated per ASTM F1941-10
5/8" hardware = None
 - Size: Steel Size(s) 1/2" – 2.00" = 1/2"-13UNC, Oval Neck Track Head with Rolled Threads
Steel Size(s) 2.38" – 24" = 5/8"-11UNC, Oval Neck Track Head with Rolled Threads
Cast/D. I. Size(s) 2" – 60" = 5/8"-11UNC, Oval Neck Track Head with Rolled Threads
- **Nut**
 - Material: 1/2" hardware = Carbon Steel per ASTM A307
5/8" hardware = HSLA Steel per AWWA C111/A21.11
 - Coating: 1/2" hardware = Fe/Zn coated per ASTM F1941-10
5/8" hardware = None
 - Size: Steel Size(s) 1/2" – 2.00" = 1/2"-13UNC, Heavy Hex Semi-Finished
Steel Size(s) 2.38" – 24" = 5/8"-11UNC, Heavy Hex Semi-Finished
Cast/D. I. Size(s) 2" – 60" = 5/8"-11UNC, Heavy Hex Semi-Finished

LISTINGS/STANDARDS

- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Meets applicable portions of AWWA C219
- Flexi-Coat® Fusion-Bonded Epoxy Coating meets requirements of AWWA C213

OPTIONS

- Other materials of construction (e.g. 304SS, 316SS, etc.)
- Type 304 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Type 316 Stainless Steel hardware with fluoropolymer coated nuts to prevent galling
- Alternative gasket material (e.g. Viton, EPDM, etc.)
- Protected gasket (brass spring molded into leading edge)
- Anode connector
- Insulating boot(s)
- Anchor studs
- Pipe stops incorporated into sleeve
- Higher working pressure design
- Custom sleeve length and thickness
- Angled sleeve design (for deflections exceeding straight coupling deflection ranges)
- Transition gasket for undersized pipe
- Wall sleeve design (for building wall or bulkhead passage)



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SPECIFICATION STEEL COUPLING MODEL 411

NOTES

- Pipe stiffeners **are required** when this product is used on HDPE
- Xylem, Smith-Blair, SB stylized, and Flexi-Coat are registered trademarks of Xylem, Inc., or one of its subsidiaries.
- These product specifications were correct at the time of publication and are subject to change without notice
- See the Smith-Blair website for part numbers and ordering information
- See the Smith-Blair website for warranty information
- See the Smith-Blair website for corrosion notice



THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT. Proper anchoring is required to prevent pipe pull out. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Refer to smith-blair.com for products designed to restrain axial pipe movement. Read the product installation instructions prior to installing this product.



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SPECIFICATION STEEL COUPLING MODEL 411

Recommended Pipe to Pipe Centerline Gaps

Sleeve Length	Optimum Gaps		Maximum Gap
	Straight Run	Deflected Joints	
5"	1/2"	1"	2"
7"	1/2"	1-1/2"	3"
10"	1"	2-1/4"	4-1/2"
Longer Than 10"	1"	2-3/4"	"Sleeve Length" – 6"

Pipe gap to be centered in coupling sleeve.

Total Maximum Allowable Axial Pipe Movement per Coupling

Coupling Size	Allowable Movement
3/4" to 2"	1/8"
2-1/2" to 10"	1/4"
10-3/4" and Larger	3/8"

Pipe End Tolerances

Nominal Pipe Size	Minus Tolerance	Plus Tolerance
1/2" up to 16"	-0.06	+0.06
>16" up to 24"	-0.08	+0.08
>24" up to 42"	-0.10	+0.10
>42"	-0.06	+0.12

Maximum Angular Deflection per Coupling

Nominal Pipe Size	Center Sleeve Length		
	5"	7"	10" and Larger
1/2" up to 2"	7°	7°	7°
>2" up to 12"	4°	4-1/2°	4-1/2°
>12" up to 24"	2-1/2°	4°	4-1/2°
>24" up to 36"	-	3-1/2°	4°
>36" up to 42"	-	3°	3-1/2°
>42" up to 60"	-	2-1/2°	3°
>60" up to 80"	-	-	2-1/2°
>80" up to 100"	-	-	2°
>100"	-	-	-

30 Globe Ave, Texarkana, AR 71854
Ph: 870-773-5127 • Fax: 870-773-5212
Toll-Free Numbers: Ph: 800-643-9705 • Fax: 800-648-6792

TAB 2

CLOTH INSERTED RUBBER GASKET CI RUBBER

SUBMITTAL SPECIFICATIONS

GASKETS MEET THE PRESSURE RATINGS, DRILLING AND DIMENSIONS OF ANSI/ASME B16.2.1

TECHNICAL DATA

MANUFACTURES	STYLE	COLOR	BINDER	TEMP MAX	HARDNESS SHORE A	TENSILE STRENGTH ASTM F-152	ELONGATION	FABRIC TYPE
AMERICAN BILTRITE	AB2102	BLACK	SBR	180°	60	750	450%	SOWN POLY FABRIC

AVAILABILITY

<input checked="" type="checkbox"/> FULL FACE	<input type="checkbox"/> RING	<input type="checkbox"/> 1/16"	<input type="checkbox"/> 1/8"	<input type="checkbox"/> 1/4"
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SERVICE: EXCELLENT FLANGE GASKET MATERIAL FOR AIR, HOT AND COLD WATER SATURATED STEAM, LOW PRESSURE STEAM OR HYDRAULIC SERVICES. SUITED FOR ALL TYPES OF GAUGES, METERS AND VALVES WHERE PRESSURE AREAS ARE SUBJECT TO MOVEMENT.

GENERAL DESCRIPTION: A TOUGH SBR COMPOUND AND CLOSE WEAVE FABRIC CONSTRUCTION. PROVIDES BOTH FLEXIBILITY AND UNIFORM STRUCTURAL STRENGTH. ONE PLY OF FABRIC PER **1/16 INCH THICKNESS**

1/8" Thickness Required

GENERALLY ATTACKED BY: OZONE, STRONG ACIDS, FATS, OILS, GREASES, AND MOST HYDROCARBON



30" 7 EACH
42" 7 EACH
48" 12 EACH
60" 6 EACH
72" 4 EACH

Verify Quantities

Pacific Coast Bolt

12748 East Florence Ave Santa Fe Springs, CA 90670
1-800-652-6587 Fax 1-562-944-9360

HEAVY HEX BOLTS / STUDS A193-B7

SUBMITTAL SPECIFICATION

"ABSTRACT OF ASTM A193"

"ALLOY-STEEL & STAINLESS STEEL BOLTING MATERIALS FOR HIGH TEMPERATURE SERVICE"

MATERIAL / GRADE: CHROMIUM-MOLYBDENUM, ASTM A193-B7

CHEMICAL REQUIREMENT (%):

CARBON	0.37-0.49
MANGANESE	0.65-1.10
PHOSPHOROUS, MAX	0.035
SULFUR, MAX	0.040
SILICON	0.15-0.35
CHROMIUM	0.75-1.20
MOLYBDENUM	0.15-0.25

MECHANICAL REQUIREMENTS:

<u>2 1/2" & UNDER DIAMETERS</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>
TENSILE STRENGTH (KSI)	125	
YIELD STRENGTHS (KSI)	105	
ELONGATION IN 4D (%)	16	
REDUCTION OF AREA (%)	50	
HARDNESS (BRINELL)		321
HARDNESS (ROCKWELL)		C35

IDENTIFICATION SYMBOL: B7

OTHER:

ALL BOLTS & STUDS, UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER SHALL BE THREADED IN ACCORDANCE WITH ANSI/ASME B1.1 UNIFIED INCH SCREW THREADS, CLASS 2A FIT. BOLT HEADS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS OF ANSI/ASME B18.2.1, HEAVY HEX BOLTS. UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER, THE HEAVY HEX BOLT SERIES SHOULD BE USED. ADDITIONAL INFORMATION CAN BE FOUND IN ASTM A193/A193M, (ALLOY STEEL AND STAINLESS STEEL BOLTING MATERIALS FOR HIGH-TEMPERATURE SERVICES).

NUTS:

NUTS SHALL CONFORM TO ASTM A194-2H, UNLESS OTHERWISE SPECIFIED. ADDITIONAL INFORMATION CAN BE FOUND IN ASTM A194/A194M, (CARBON AND ALLOY STEEL NUTS FOR BOLTS FOR HIGH PRESSURE AND HIGH-TEMPERATURE SERVICE).

FLAT WASHERS: UNLESS OTHERWISE SPECIFIED. ALL WASHERS SHALL BE SIMILAR

Summary:

Valve Size	Count	UOM	Studs per Valve	Stud Dia. (Inch)	Flange Thickness (Inch)	Stud Length (Inch)	Stud Qty.	Nuts Per Valve	Bolt Torque (ft.-lbs)
30	7	EACH	28	1.25	2.125	8.75	196	392	400
42	7	EACH	36	1.5	2.625	9.75	252	504	500
48	12	EACH	44	1.5	2.75	10	528	1056	500
60	6	EACH	52	1.75	3.125	10.75	312	624	600
72	4	EACH	60	1.75	3.5	11.5	240	480	600

HEAVY HEX NUTS A194 GRADE 2H

SUBMITTAL SPECIFICATION

"ABSTRACT OF ASTM A194/A194M"

"Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service"

MATERIAL / GRADE: CARBON STEEL, ASTM A194-2H

CHEMICAL REQUIREMENTS (%):

CARBON, MIN	0.40
MANGANESE, MAX	1.00
PHOSPHOROUS, MAX	0.040
SULFUR, MAX	0.050
SILICON, MAX	0.40

MECHANICAL REQUIREMENTS:

	<u>MINIMUM</u>	<u>MAXIMUM</u>
<u>TO 1 ½", INCLUDED</u>		
HARDNESS (BRINELL)	248	327
HARDNESS (ROCKWELL)	C24	C35
<u>OVER 1 ½"</u>		
HARDNESS (BRINELL)	212	327
HARDNESS (ROCKWELL)		C35

SEE ASTM A194/A194M FOR PROOF LOADS ON INDIVIDUAL SIZES

IDENTIFICATION SYMBOL: 2H

OTHER:

ALL NUTS, UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER, SHALL BE THREADED IN ACCORDANCE WITH ANSI/ASME B1.1, CLASS 2B FIT. HEX NUTS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS OF ANSI/ASME B18.2.2. UNLESS OTHERWISE SPECIFIED, THE HEAVY HEX SERIES SHALL BE USED. ADDITIONAL INFORMATION CAN BE FOUND IN ASTM A194/A194M, CARBON AND ALLOY STEEL NUTS FOR BOLTS FOR HIGH-PRESSURE AND HIGH-TEMPERATURE SERVICE.

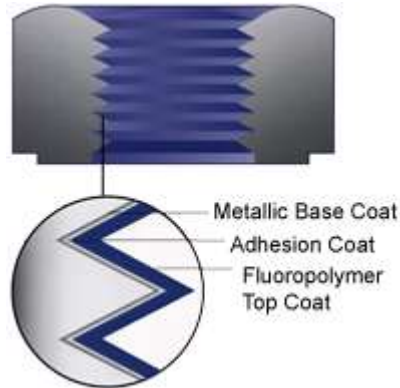
Pacific Coast Bolt

12748 East Florence Ave Santa Fe Springs, CA 90670
1-800-652-6587 Fax 1-562-944-9360

REV. 08/14

FluoroKote Coating Process

FluoroKote#1®... A Coating Process for the 21st Century



FluoroKote#1® fully protects fasteners by guaranteeing 100% coverage of the surfaces, even inside the nuts.

Metal Coatings Corp has perfected the fluoropolymer fastener coating process. Surface preparation of the fastener prior to coating is a very important step. We use the latest industry accepted methods to thoroughly clean all contaminants from the fasteners. Manufacturing oils, rust and scale are removed to ensure the highest quality coating.

Superior corrosion resistance is created by the application of a series of coatings. A metallic base coat is applied first, followed by an adhesion coat. The adhesion coat creates a chemical bond between the base coat and the top coat. The top coat, a heat cured fluoropolymer coating containing PTFE, is used to seal the two under coatings and give easy on/easy off characteristics. This combination of coatings creates the FluoroKote#1® process.

Technical Data

- **Use Temperatures:** -100° to 500°F
- **Corrosion Resistance:** Salt Spray (ASTM B117) ...up to 4,000 hrs (Nuts not frozen)
- **Pencil Hardness:** 5H-6H (ASTM D3363-92A)
- **Kinetic Friction Coefficient:** 0.06-0.08
- **Thickness:** nominal 0.001" (1 mil)
- **Impact:** 160 in. lb. (ASTM D2794-93)
- **Adhesion:** 5B (ASTM D3359-95)

- **Dielectric Strength:** 500 volts per mil
- **Elongation:** 35%-50%
- **Tensile Strength:** 4,000 psi
- **Operating Pressure:** Up to 100,000 psi
- **Kesternich Test:** Nuts not frozen after 30+ cycles (DIN 50018)
- **Thread Fit:** Over tapping of nuts 0.010" (Recommended)

Corrosion Resistance

ASTM	TEST	DURATION	RESULTS
D1308	Muriatic Acid 31% HCL	24 Hours	No Effect
D1308	Sulfuric Acid 93% H2SO4	24 Hours	No Effect
D1308	Caustic Soda 50% NaOH	24 Hours	No Effect
D1308	Methyl Ethyl Ketone MEK	24 Hours	No Effect
B117	Salt Fog	1,000 Hours	No Effect

To: General Distribution

Date: May 12, 2017

From: Dave Burgess and Matt Tones

Subject: Cloth Inserted Rubber as a Gasket May Weep

Cloth inserted rubber: Many specifications call for a cloth inserted (CI) rubber gasket instead of a homogeneous rubber. Most of our CI rubber materials are intended for diaphragm use in pumps and actuators, because rubber without a woven cloth insert would be prone to stretching or rupture. When used as a gasket, CI rubber can leak through the fabric. This is often called wicking or weeping.

When this happens these materials will usually leak a small amount of fluid regardless of the compressive load applied, meaning there is no torque we can recommend that will guarantee the gasket will remain leak free.

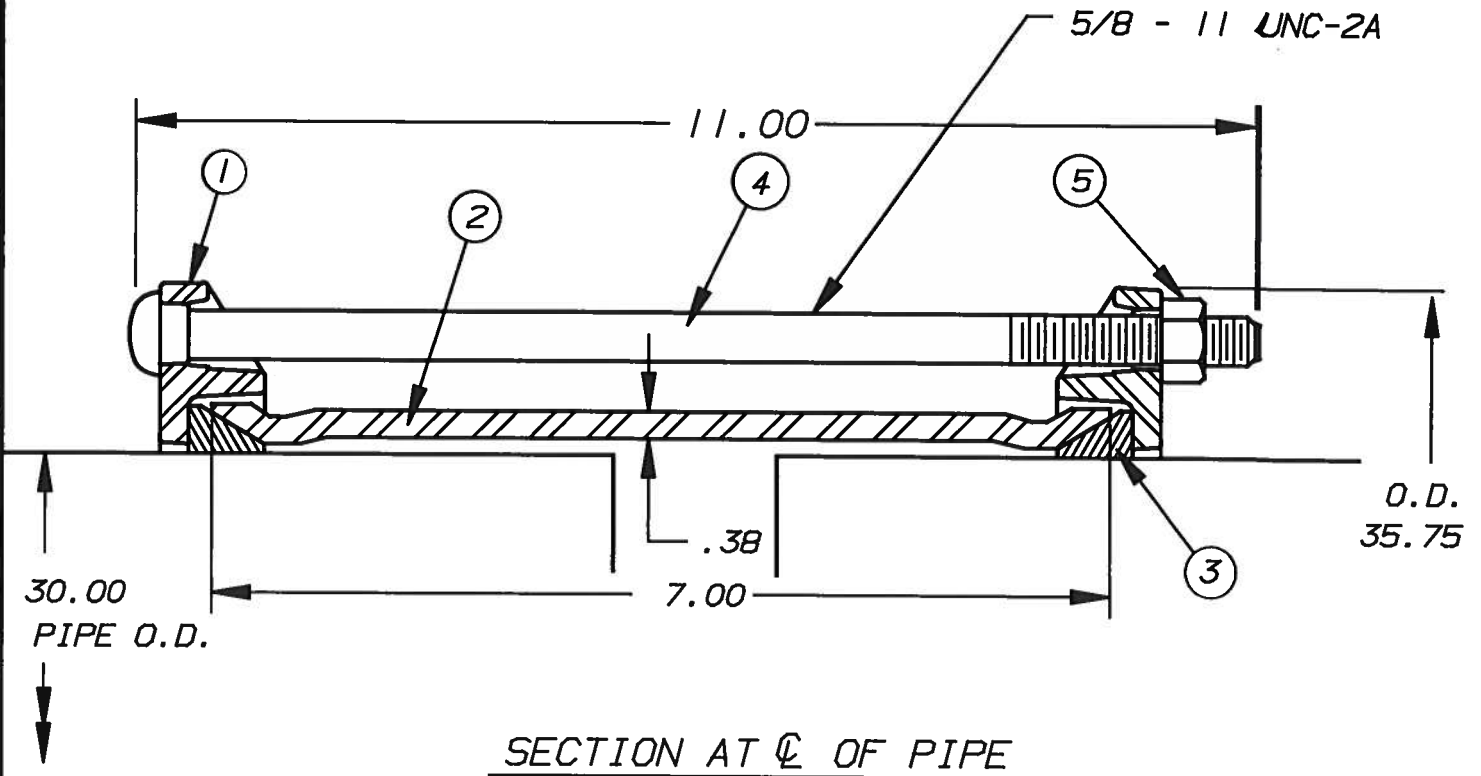
The leakage occurs because the fibers in the fabric are actually small bundles of smaller fibers, and the rubber is unable to fully penetrate between all of the individual strands.

CI Rubber is indeed more resistant to extrusion and crushing than homogeneous rubber, but if the joint must be leak free, then homogeneous rubber is probably a better choice. Garlock also offer a few other options that provide improved crush resistance over homogenous rubber gaskets. Garlock Style 9200 is a (70 durometer NBR with a special non-wicking NYLON fabric) or another possibility Style 3760 MULTI-SWELL. (Use 3760U for potable water)

Please consult with Garlock Application Engineering for the best alternative for the application.

Verify with City if they have had any issues with this.

7 EACH



ITEM	DESCRIPTION	NO.	MATERIAL SPECS	REMARKS
1	FOLLOWER FLANGE	2	ASTM A576 GR1020 HR	
2	SLEEVE	1	ASTM A283 GRC	
3	GASKET	2	ASTM D2000, BUNA-N	NSF
4	BOLT	12	ANSI A21.11 HSLA	
5	NUT	12	ANSI A21.11 HSLA	

MEETS AWWA C219 STANDARDS

NOTES:

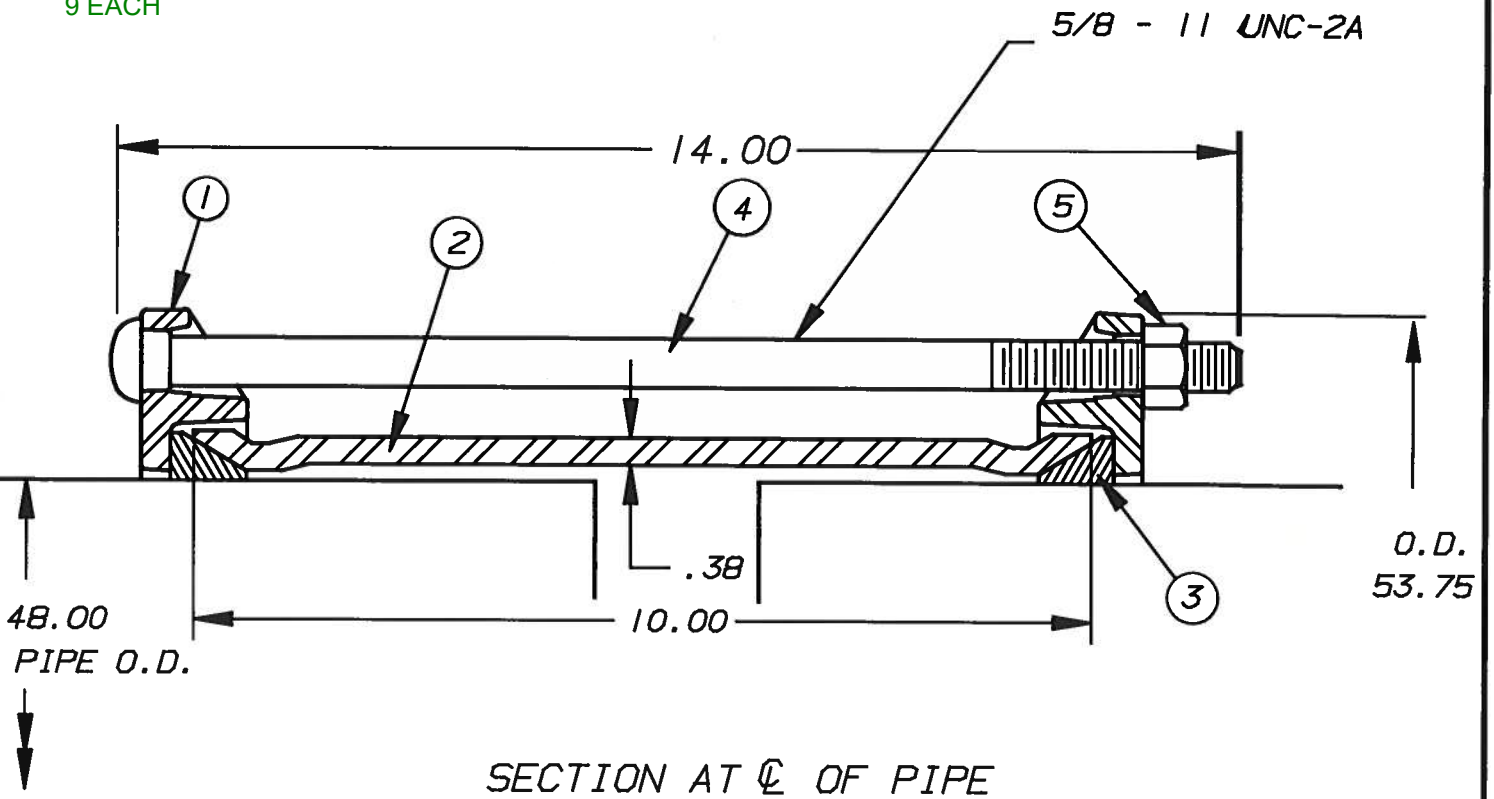
1. COATING: FUSION BONDED EPOXY, NSF

1. MAXIMUM WORKING PRESSURE = 150 PSI

2. MAXIMUM TEST PRESSURE = 225 PSI

TOLERANCE U.N.O XX = ±.03 XXX = ±.010 MACH FIN= √125 ANGLES = ± 1°	NOTES: REMOVE BURRS AND SHARP EDGES. DO NOT SCALE DWG. SCALE: NONE	APP'D	DATE
		CHKD	DATE
		DRWN	JCC
TITLE 411 SERIES BOLTED COUPLING F/30.00 O.D. PIPE			
SMITH-BLAIR, Inc. TEXARKANA, ARKANSAS		P/N 411-00300007-003	
SYM DATE DRN. CK'D REV NO.		DWG. NO.	1 OF 1 PAGE REV

9 EACH



SECTION AT Q OF PIPE

ITEM	DESCRIPTION	NO.	MATERIAL SPECS	REMARKS
1	FOLLOWER FLANGE	2	ASTM A576 GR 1020 HR	
2	SLEEVE	1	ASTM A283 GRC	
3	GASKET	2	ASTM D2000, BUNA-N	NSF
4	BOLT	20	ANSI A21.11 HSLA	
5	NUT	20	ANSI A21.11 HSLA	

MEETS AWWA C219 STANDARDS

NOTES:

1. COATING: FUSION BONDED EPOXY, NSF

2. MAXIMUM WORKING PRESSURE = 150 PSI

3. MAXIMUM TEST PRESSURE = 225 PSI

TOLERANCE U.N.O XX = ±.03 XXX = ±.010 MACH FIN = √125 ANGLES = ± 1°	NOTES: REMOVE BURRS AND SHARP EDGES. DO NOT SCALE DWG. SCALE: NONE	APP'D	DATE
		CHKD	DATE
		DRWN JCC	DATE 8/26/20

TITLE

**411 SERIES BOLTED COUPLING
F/48.00" O.D. PIPE**

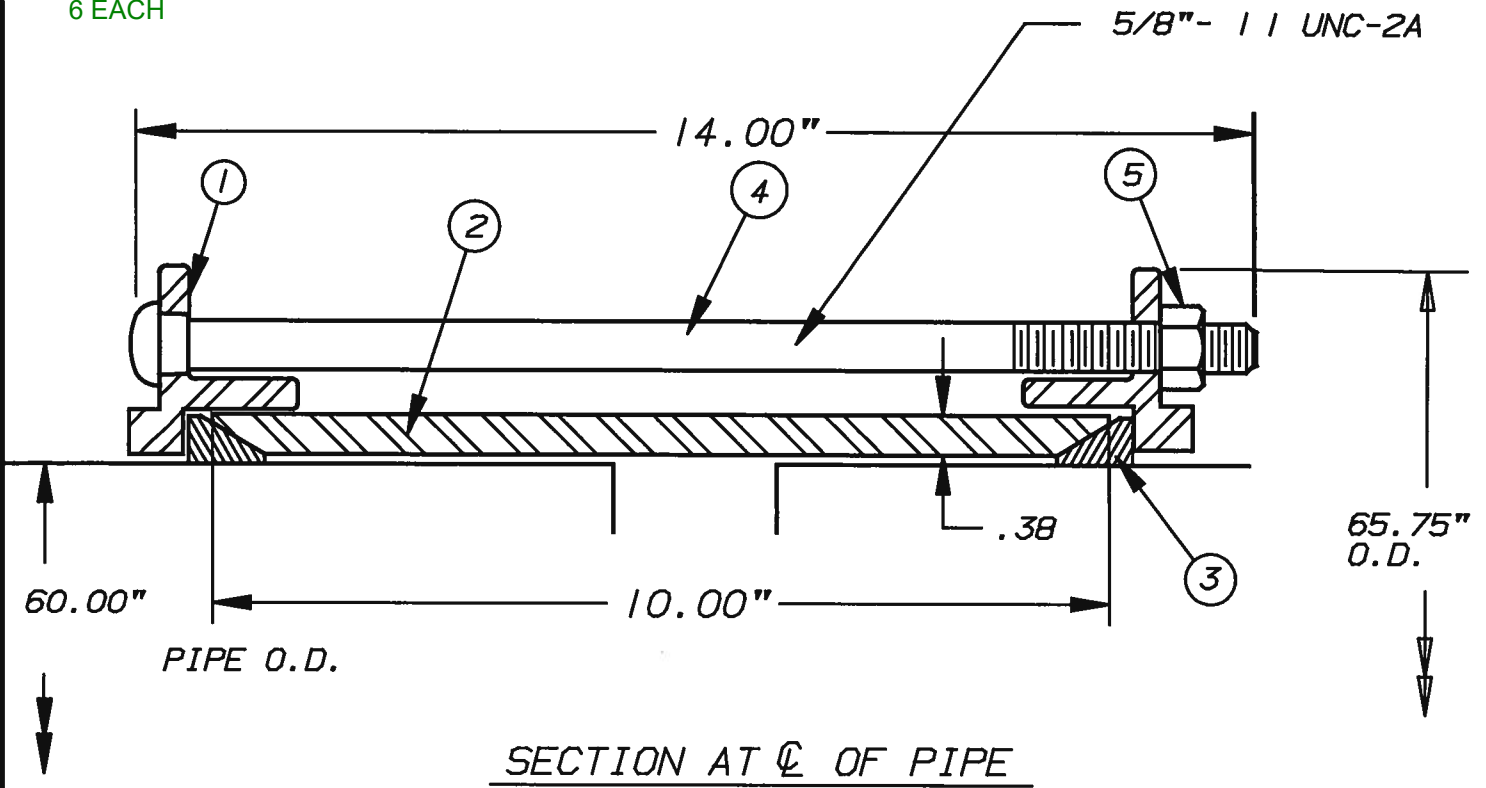
**SMITH-BLAIR,
Inc.
TEXARKANA, ARKANSAS**

P/N 411-00480008-003

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DWG. NO.	PAGE REV

SYM	DATE	DRN.	CK'D	REV NO.

6 EACH



SECTION AT Q OF PIPE

ITEM	DESCRIPTION	NO.	MATERIAL SPECS
1	FOLLOWER FLANGE	2	ASTM A36
2	SLEEVE	1	ASTM A283C
3	GASKET	2	BUNA-N ASTM D2000 NSF-61 LISTED
4	BOLT	24	ANSI A21.11 HSLA
5	NUT	24	ANSI A21.11 HSLA

MEETS AWWA C219 SPECIFICATIONS

- NOTES:
1. MAXIMUM WORKING PRESSURE = 150 PSIG.
 2. MAXIMUM TEST PRESSURE = 225 PSIG.
 3. COATING: FUSION BONDED EPOXY

TOLERANCE U.N.O XX = ±.03 XXX = ±.010 MACH FIN = √125 ANGLES = ± 1°	NOTES: REMOVE BURRS AND SHARP EDGES. DO NOT SCALE DWG.	APP'D	DATE
	SCALE: NONE	CHKD	DATE
		DRWN JCC	DATE 8/26/20

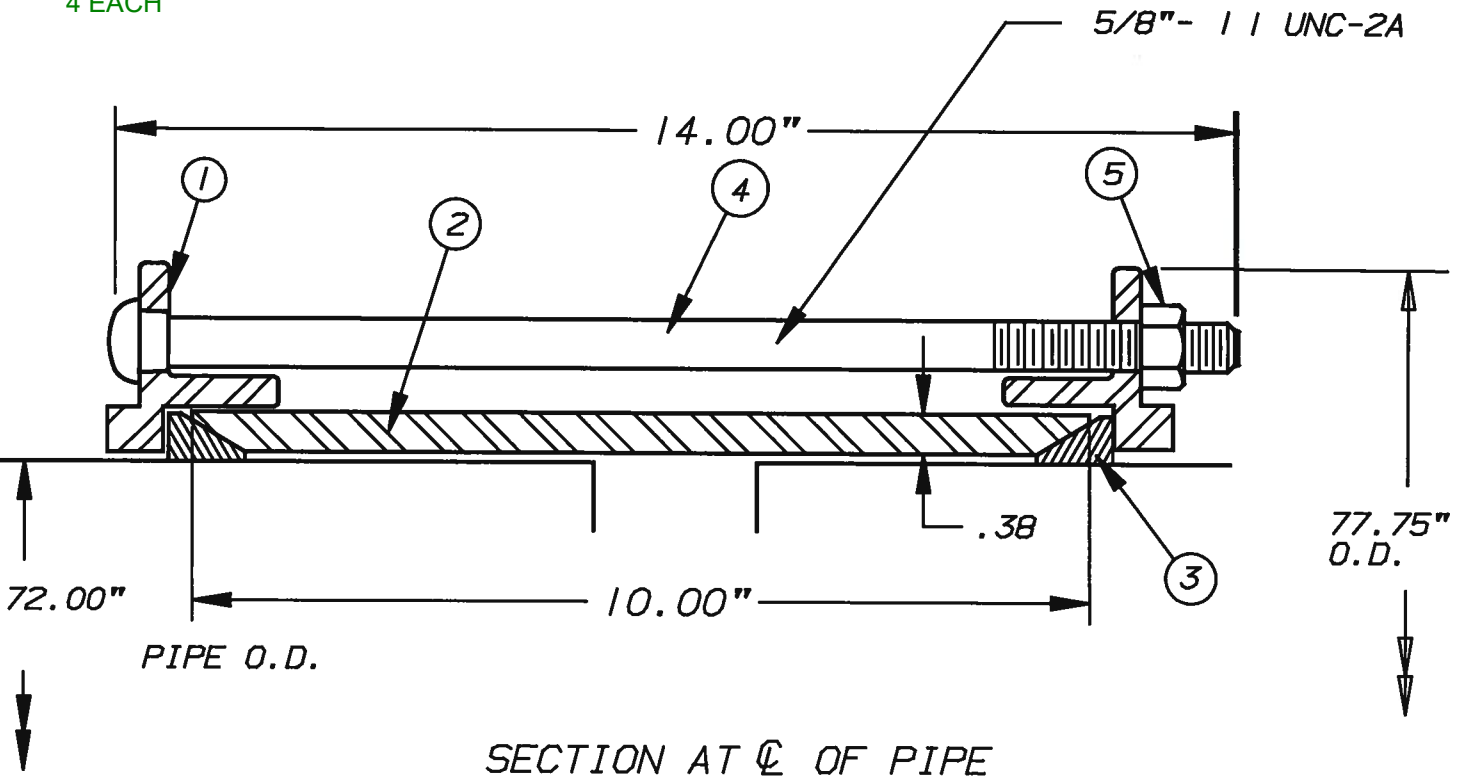
TITLE
411 SERIES BOLTED COUPLING
F/ 60.00 O.D., 3/8" X 10" SLV.

SMITH-BLAIR,
Inc.
 TEXARKANA, ARKANSAS

P/N 411-00600008-003	1 OF 1 PAGE REV
DWG. NO.	

SYM	DATE	DRN.	CK'D	REV NO.

4 EACH



SECTION AT C OF PIPE

ITEM	DESCRIPTION	NO.	MATERIAL SPECS
1	FOLLOWER FLANGE	2	ASTM A36
2	SLEEVE	1	ASTM A283C
3	GASKET	2	BUNA-N ASTM D2000 NSF-61 LISTED
4	BOLT	30	ANSI A21.11 HSLA
5	NUT	30	ANSI A21.11 HSLA

MEETS AWWA C219 SPECIFICATIONS

- NOTES:
1. MAXIMUM WORKING PRESSURE = 150 PSIG.
 2. MAXIMUM TEST PRESSURE = 225 PSIG.
 3. COATING: FUSION BONDED EPOXY

TOLERANCE U.N.O XX = ±.03 XXX = ±.010 MACH FIN = √125 ANGLES = ± 1°	NOTES: REMOVE BURRS AND SHARP EDGES. DO NOT SCALE DWG. SCALE: NONE	APP'D	DATE
		CHKD	DATE
		DRWN JCC	DATE 8/26/20

TITLE
411 SERIES BOLTED COUPLING
F/ 72.00 O.D., 3/8" X 10" SLV.

SMITH-BLAIR,
Inc.
 TEXARKANA, ARKANSAS

P/N 411-00720008-003	1 OF 1 PAGE REV
DWG. NO.	

SYM	DATE	DRN.	CK'D	REV NO.