BARGE DESIGN SOLUTIONS
6525 THE CORNERS PKWY NW
NORCROSS, GA 30092 (678) 515-9411

COMMENTS TO SUBMITTAL DATA
LOWER POPLAR WATER RECLAMATION FACILITY
INFLUENT PUMP STATION IMPROVEMENTS
BARGE: 36181-21
SUBMITTAL NAME: **40 05 06-001-A - FCA, Dismantling Joints & Service Saddles**

REVIEWED / NO EXCEPTIONS TAKEN	☒
REJECTED	☐
REVIEWED / EXCEPTIONS NOTED	☐
REVISE AND RESUBMIT	☐
NOT SUBJECT TO REVIEW	☐

Review of this submittal is expressly limited as provided in the Contract Documents and are only to determine general conformance with information given in the Contract Documents and compatibility with the design concept for the completed project as a functioning whole as indicated in the Contract Documents. Corrections or comments made for this review do not relieve the Contractor from compliance with the Contract Documents. Contractor is, and Engineer is **NOT**, responsible for all matters relating to confirmation/correlation of dimensions at the jobsite, fabrication, shipping, handling, storage, assembly, installation, construction (including all safety aspects of performing the work), and for coordinating the Work.

Mike Alexander, PE — 02/05/25

BARGE DESIGN SOLUTIONS, INC. — DATE

Comments

No.	Comment	Related Specification/ Drawing No.
1		
2		

END OF COMMENTS

LAKESHORE ENGINEERING

TRANSMITTAL OF SUBMITTAL

DATE: **1-17-2025**

TO: Barge Design Solutions
6525 The Corners Pkwy
Suite 450
Peachtree Corners Ga 30092

FROM: LAKESHORE ENGINEERING
1259 Ellsworth Drive
Atlanta, GA 30318

PROJECT: Lower Poplar Water Reclamation Facility

New Submittal X Resubmittal

Specification Section No. : 40 05 06 2.5, 2.6 & 2.7

Supplier: Ferguson Waterworks

Manufacturer: Romac

The following items are hereby submitted:

Number of Copies	Description of Item Submitted (Type, Size, Model Number, Etc.)	Submittal number	Submittal Type	Contains Variation to Contract	
				No	Yes
Electronic	Flange Coupling Adapters, Dismantling Joints & Service Saddles	40 05 04-1	Product Data	X	

Comments:

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents. The CONTRACTOR has endeavored to list all deviations to the contract documents on this submittal cover page.

Approved By: Ken Fuller
Ken Fuller

FERGUSON® WATERWORKS

Submittal Transmittal

Project:	Lake Shore Engineering - Lower Poplar WRF
Engineer:	
Date:	11/12/2024

Original Submittal:	x	Yes
		No
Revision Number:	0	

Transmitted To:

Contractor: Lake Shore Engineering
Contractor PM: Beau Jackson 478-595-8695
Contractor PM Email
Bjackson@lakeshoreengineering.com

Transmitted From:

Ferguson Strategic Infrastructure Group
Ferguson PM: Patrick Smith
Ferguson PM Email
Patrick.Smith@Ferguson.com

ITEM(S) SUBMITTED INCLUDE:

x	**Product Data**		**Shop Drawings**	**FCA, Dismantling Joint, Service Saddle Submittal**

Supporting Document	Description	Page
40 05 06 -4	FLANGE ADAPTERS	2-4
Vendor/Manufacturer	**Product Data**	**Page**
ROMAC	DISMANTLING JOINT	5-6
ROMAC	RFCA	7-8
ROMAC	SERVICE SADDLE	9-10

These Items Are Transmitted As Indicated Below:

x	**For Approval**		**Returned for Corrections**
	For Your Use		**Acknowledge Approved as Noted**
	As Requested		**Return for Interpretation**

REMARKS: Products submitted with more than one manufacturer are only intended to provide equivalent options in the event availability issues occur. Whenever possible, one manufacturer for each product type will be used throughout the project.

Note that Ductile Iron flanged fittings are manufactured to the following tolerances:

Flange Thickness:
- Sizes 2"-12" Inclusive: ±0.12in
- Sizes 14"-24" Inclusive: ±0.19in
- Sizes 30"-64" Inclusive: ±0.25in

Laying Length:
- Sizes 2"-10" Inclusive: ±0.06in
- Sizes 12"-64" Inclusive: ±0.12in

2.4 Isolation Joints

A. Dielectric Fittings: Dielectric fittings shall be provided between threaded ferrous and nonferrous metallic pipe, fittings and valves. Dielectric fittings shall prevent metal-to-metal contact of dissimilar metallic piping elements and shall be suitable for the required working pressure, temperature and corrosive application.

B. Isolation Joints: Isolation joints shall be provided between nonthreaded ferrous and nonferrous metallic pipe fittings and valves. Isolation joints shall consist of an isolation gasket of the dielectric type, isolation washers and isolation sleeves for flange bolts. Isolation gaskets shall be full-faced with an outside diameter equal to the flange outside diameter. Bolt isolation sleeves shall be full length. Units shall be of a shape to prevent metal-to-metal contact of dissimilar metallic piping elements.

2.5 Flange Coupling Adapters (FCA)

A. Flange coupling adapters shall be of the size and pressure rating required for each installation and shall be suitable for use on the pipe to be connected.

B. All couplings shall have a sufficient number of factory installed anchor devices to meet or exceed the test pressure rating for this project, or 300 psi minimum.

C. Sleeve shall be of A36, A283 Gr. C, or Carbon Steel having a minimum yield of 30,000 PSI. Ends shall have a smooth inside taper to provide uniform gasket seal. Sleeve shall be given a shop coat of oil–modified urethanes, corrosion-resistant paint, or epoxy coating.

D. Flanges shall be flat face flanges complying with AWWA C207 Class D, ANSI 150 lb. drilling.

E. Gland shall be 65-45-12 Ductile Iron (ASTM A536) and shall be coated with the same material as the sleeve. MJ gaskets shall be standard SBR gaskets complying with AWWA C111 and ANSI A21. 11.

F. Bolts and Nuts shall be of high-strength, low-alloy steel, per AWWA C111.

G. Dimensions and minimum stress values shall be in accordance with AWWA/ANSI C111/A21.11.

H. Manufacturers and Products:

1. Smith Blair, Style 911

2. Romac Industries, Inc. RFCA

3. Approved Equal

2.6 Dismantling Joints (Restrained) (DMJ)

A. Restrained dismantling joint fittings shall meet the specifications set forth in AWWA C219, be of the size and pressure rating required for each installation and shall be

suitable for use on the pipe to be connected. Restrained dismantling joint fittings shall have a sufficient number of factory installed bolts and tie rods to meet or exceed the test pressure rating for this project, or 150 psi minimum.

B. Followers for 3" through 12" shall be Ductile Iron 65-45-12 per ASTM A536; for size 14" and larger shall be Carbon Steel C1020 per ASTM A576. Sleeve and spool weldment material shall be Carbon Steel per ASTM A283C. Flanges shall meet AWWA C207 Class D Steel Ring Flange, compatible with ANSI Class 125 and 150 bolt circles. Total angular deflection up to 1-1/2° per joint. Bolts, nuts and tie rods shall be Type 304 stainless steel. Fittings shall have a fusion bonded epoxy finish which meets application methods AWWA C213.

C. Gaskets shall be Nitrile (Buna-N) per ASTM D2000, NSF/ANSI 61 and 372 certified and compounded to resist water, oil, natural gas, acids, alkalis, most (aliphatic) hydrocarbon fluids, and many other chemicals. Temperature range: -20ºF to +180ºF.

D. Manufacturers and Products:

1. Smith Blair, Model 975

2. Romac Industries, Style DJ400

3. Or Approved Equal

2.7 Service Saddles

A. Saddle casting or body for pipe up to sixteen-inch nominal size shall be of the double strap/bale or double and single band type with minimum four studs/bolts on the single band type. Casting shall be cast bronze of the size and application specified. Material shall be in accordance with ASTM B62 and B584 (85-5-5-5) requirements and fabricated to ANCI/AWWAC800, latest revision. Saddles for PVC pipe shall be pre-formed to AWWA C900 and C905 outside diameter dimensions and so stamped or otherwise identified by a permanent inked marking that will not smear or wash off on the body of the saddle. C900 formed saddles may be used on ductile iron pipe from sizes four through sixteen inches.

B. Saddle casting or body for ductile iron, cast iron and C900 pipe in sizes above sixteen-inch (16") shall be ductile iron and shall be of the double or triple band stainless steel type of the size and application specified. Material shall be in accordance with ASTM A-536 requirements and fabricated to ANCI/ AWWA C800, latest revision. The saddle casting or body shall be coated with a fusion-bonded epoxy or high density polyethylene. The body shall be NSF 61 approved. The coating shall be NSF 61 or U.L approved to the NSF 61 standard.

C. The minimum width for double stainless steel bands on 16 inch and larger pipe diameters shall measure two inches each. The minimum width for single stainless bands shall measure four inches (4").

D. The minimum gauge of the stainless steel bands shall be eighteen gauge. In order to prevent deformation, the minimum gauge of the stainless steel side bars shall be ten gauge. All welds shall be fully passivated for enhanced corrosion resistance.

E. The bolts/studs shall be 5/8" UNC roll thread with heavy gauge flat hex nuts. All Stainless nuts shall be coated to prevent galling.

F. Gaskets shall be virgin rubber, NSF 61 approved, meet ASTM D-2000 and be NBR or SBR compounded to produce permanence and resistance to set after installation and deterioration during storage.

G. Quality control procedures shall be employed to ensure that the bronze saddle casting, straps (bronze bale or stainless steel band), and gasket are manufactured to be free of any visible defects. Each saddle shall have a working pressure rating not less than the following:

Pipe Size (inches)	Minimum Working Pressure Rating (psi)
12 and smaller	175
16 and larger	150

Part 3 Execution

3.1 Examination

A. After becoming familiar with all details of the work, verify all dimensions in the field, and advise the Engineer of any discrepancy before performing the work.

3.2 Preparation

A. Protection: Pipe and equipment openings shall be closed with caps or plugs during installation. Equipment shall be protected from dirt, water, and chemical or mechanical damage.

B. System Preparation

1. Provide accessibility to piping specialties for control and maintenance.

3.3 Manufacturer's Field Services

A. Obtain manufacturer's technical assistance for Contractor training, installation inspection, start up, and owner operating and maintenance training.

B. Follow manufacturer's instructions for installation.

C. Metallic Piping Couplings: Thrust ties shall be provided where shown on the contract drawings and where required to restrain the force developed by 1.5 times the maximum allowable operating pressures specified. For metallic pipe other than ductile iron, thrust ties shall be attached with fabricated lugs. For ductile iron pipe, thrust ties shall be attached with socket clamps against a grooved joint coupling or flange. For exposed installations, zinc-plated nuts and bolts shall be used. However, high-strength, low-alloy steel, in accordance with AWWA C111/A21.11, may be substituted for use on cast iron and ductile iron couplings. For buried and submerged installations, TP304

DJ400 DISMANTLING JOINT 14" - 72"
WITH TIE RODS

SUBMITTAL INFORMATION

MATERIALS

FLANGED
Spool AWWA Class D Steel Ring Flange, compatible with ANSI Class 125 and 150 bolt circles. Pipe is ASTM A36 plate 1% cold expanded to size.

END RING AND BODY
The end ring and body are made from ASTM A36 steel.

GASKETS
Compounded for water and sewer service. Meeting the requirements of ASTM D 2000. Other compounds available on request.

BOLTS AND NUTS
ASTM A588 HSLA bolt material. Stainless Steel, Types 304 or 316 is optional.

TIE RODS
High tensile steel per ASTM A193 grade B7. Stainless steel, type 304 or 316 is optional.

COATINGS
Fusion bonded epoxy, NSF 61 certified.

PRESSURE

When properly installed on a pipe that is within the coupling manufacturer's tolerances, Romac style DJ400 can work at pressures up to the maximum rating of the flange. AWWA Class D flanges are rated for 150 psi in 14" and larger sizes. Higher working pressures can be accommodated. Consult your representative.

ASSEMBLY TOLERANCE

Three inch adjustment see catalog. For more length, contact Romac Engineering.

SIZE

14”-72”. SEE DRAWING FOR DETAIL. Sizes up to Ø170” are available.

STANDARD

The DJ400 meet the specifications set forth in the AWWA Standard C219 coupling spec.

11/17
Document # 20-8-0044

This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.

ROMAC INDUSTRIES, INC.
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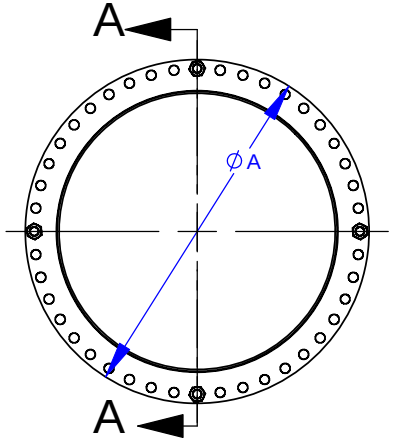
21919 20th Avenue SE • Suite 100 • Bothell, WA 98021
Phone (425) 951-6200 • 1-800-426-9341 • Fax (425) 951-6201

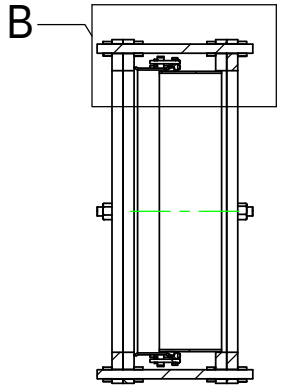
B1973-A

NOM SIZE	DIMENSIONS					BOLTS		TIE RODS				SPOOL			APPROX WEIGHT
	FLANGE OD	FLANGE THK	LENGTH			QTY	SIZE (UNC)	SIZE (UNC)	LENGTH	QTY		OD	PIPE THK	FLANGE THK	
	A	B	C			D	E	F	G	H		J	K	M	LBS
			NOM.	MIN.	MAX.					ALLOY	SS				
14	21.00	0.94	13.50	12.00	15.00	8	5/8 - 11	1- 8	22.00	2	2	14.00	0.25	0.94	171
16	23.50	1.00	13.50	12.00	15.00	10	5/8 - 11	1- 8	22.00	2	2	16.00	0.25	1.00	208
18	25.00	1.06	13.75	12.25	15.25	10	5/8 - 11	1 1/8 - 7	23.25	2	4	18.00	0.25	1.06	229
20	27.50	1.13	13.75	12.25	15.25	12	5/8 - 11	1 1/8 - 7	23.25	2	4	20.00	0.25	1.13	270
24	32.00	1.25	14.25	12.75	15.75	14	5/8 - 11	1 1/4 - 7	25.50	2	4	24.00	0.25	1.25	361
30	38.75	1.38	14.75	13.25	16.25	16	5/8 - 11	1 1/4 - 7	25.50	4	6	30.00	0.38	1.38	582
36	46.00	1.63	15.75	14.25	17.25	18	5/8 - 11	1 1/2 - 6	27.50	4	6	36.00	0.38	1.63	855
42	53.00	1.75	16.50	15.00	18.00	20	5/8 - 11	1 1/2 - 6	29.25	4	6	42.00	0.38	1.75	1117
48	59.50	1.88	16.75	15.25	18.25	22	5/8 - 11	1 1/2 - 6	29.25	6	8	48.00	0.38	1.88	1396
54	66.25	2.13	17.75	16.25	19.25	24	5/8 - 11	1 3/4 - 5	31.75	6	8	54.00	0.38	2.13	1825
60	73.00	2.25	18.00	16.50	19.50	28	5/8 - 11	1 3/4 - 5	31.75	6	10	60.00	0.38	2.25	2175
72	86.50	2.63	18.75	17.25	20.25	32	5/8 - 11	1 3/4 - 5	33.50	10	14	72.00	0.38	2.63	3296

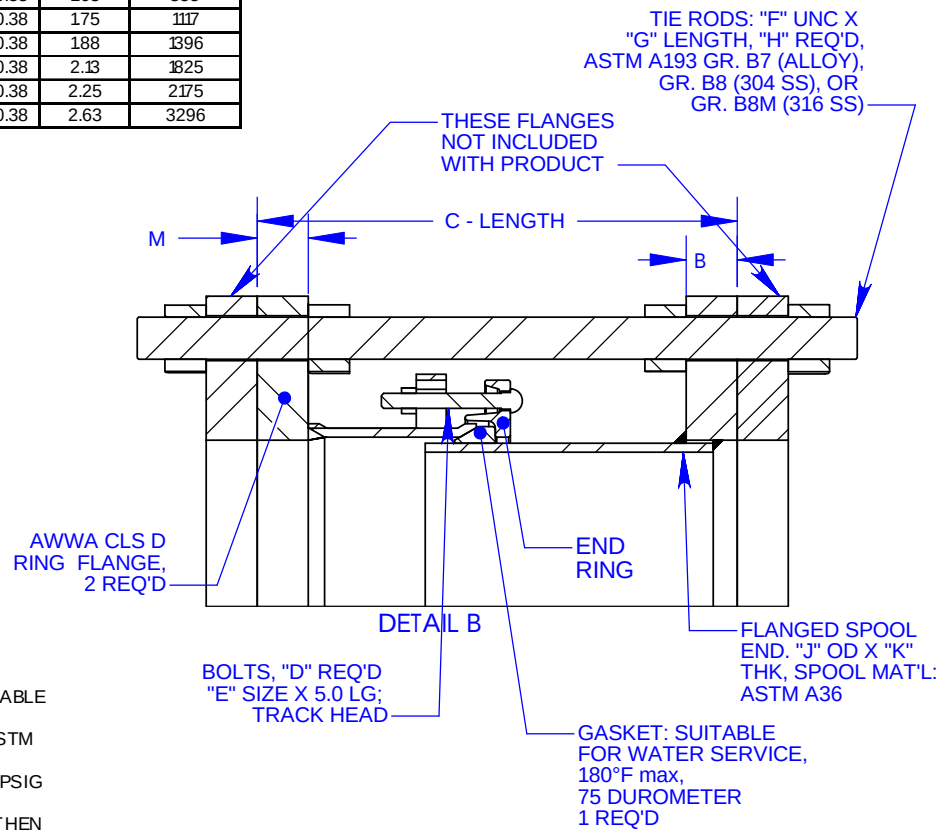
REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	3/13/02	NST III
1	UPDATED TIE ROD LENGTH TO MATCH F2080-D	5/22/02	NST III
2	ADDED FLANGE THK (B) AND TEST PRESSURE	7/23/02	NST III
3	ADDED 72" SIZE	7/24/02	NST III
4	REVISED LG DIM "C" AND TIE ROD LG "G"	9/13/02	NST III
5	CHANGED NOTES TO REFLECT STD EPOXY & STD HSLA FASTENERS	1/31/03	NST III
6	ADDED STAINLESS STEEL TIE RODS TO TABLE	3/4/04	NST III
7	CORRECTED SS TIE ROD QTYS. 16" WAS 4, 42" WAS 8, 48" WAS 10, 54" WAS 10, 60" WAS 12, 72" WAS 16	1/17/06	NST III
8	UPDATED APPROX WEIGHT 14"-72"	7/6/09	PNN





SECTION A-A
SCALE 1 : 37



NOTES:

1. NSF 61 CERTIFIED COATING: FUSION BONDED EPOXY IS STANDARD. OTHER COATINGS AVALABLE UPON REQUEST.
2. FASTENERS: HSLA PER ASTM A588 IS STANDARD. STAINLESS STEEL TYPE 304 OR 316 PER ASTM A193 AVAILABLE UPON REQUEST.
3. PRESSURE RATED UP TO FLANGES PROVIDED. 14"-72" AWWA CLS D 150 PSIG WORKING, 225 PSIG TEST. FOR HIGHER PRESSURES, AWWA CLS E OR CLS F FLANGES AVAILABLE.
4. WHEN INSTALLING, POSITION THE FLANGED COUPLING END IN THE REQUIRED LOCATION & THEN FOLLOW BOLTING INSTRUCTIONS.
5. NOT INTENDED TO PROVIDE LATERAL MOVEMENT IN PIPELINE.

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES ARE ON:
1 PL DECIMALS ± .020
2 PL DECIMALS ± .010
3 PL DECIMALS ± .005
ANGLES ± 1°
FRACTIONS ± 1/64

SIGNATURES

DRAWN — Digitally signed by Peter Nielsen DN: cn=Peter Nielsen, o=Romac Industries Inc., ou=Engineering, email=peter.nielsen@romac.com, c=US Date: 2009.07.06 08:06:52 -07'00'

CHECKED — Digitally signed by Sam Hill Date: 2009.07.06 08:53:41 -07'00'

APPROVAL ORGANIZATIONS

ENGINEERING

ROMAC INDUSTRIES INC.,
BOTHELL, WA

TITLE

DISMANTLING JOINT DJ400 - W/ TIE RODS
14"-72", CLS D FLANGE

DWG. NO.	SIZE	REV. NO.	SCALE	SHEET
B1973-A	A	8	NTS	1 OF 1

DRAWING FILE NAME: B1973 DJ400 - 14 - 72 TRAD CLS D

MODEL NAME: dismantling-joint-asm

CONFIGURATION NAME:54" full assembly

AUTHOR: PETER NIELSEN

RESTRAINED FLANGED COUPLING ADAPTER
FOR DUCTILE IRON PIPE 14 – 24 INCH

SUBMITTAL INFORMATION

NSF61 certified upon request.

USE

The Restrained Flanged Coupling Adapter is used to connect plain end ductile iron pipe to a flanged pipe, valve, or fitting. It provides flexibility before and after installation, and a RomaGrip wedge style restrainer provides restraint for the plain end pipe. Not for use on plain end mechanical joint fittings. The RomaGrip may be used on cast iron pipe as long as it has the same OD as ductile iron pipe.

NOTE: Some initial axial movement may occur in lug style restraints as the lugs seat. Movement is directly related to the size of the piping system and the system pressure. In general terms movement of approximately 0.25 can be expected in restraints under 16". For larger sizes, movement of approximately 0.40 may be seen. If this is critical to your application please contact Romac Engineering for additional information.

MATERIALS

GLAND AND FLANGE BODY
Ductile (nodular) iron, meeting or exceeding ASTM A 536, Grade 65-45-12.

GASKET
MJ Gasket per AWWA C111 is made from virgin Styrene Butadiene Rubber (SBR) compounded for water and sewer service in accordance with ASTM D 2000 MBA 710. Flange gasket is O ring style and is made of Nitrile Butadiene Rubber (NBR) in accordance with ASTM D 2000. Other compounds available for petroleum, chemical, or high temperature service.

RESTRAINING BOLT
7/8 – 9 roll thread, Ductile (nodular) iron, meeting or exceeding ASTM A 536.

RESTRAINING LUGS
Ductile (nodular) iron, meeting or exceeding ASTM A 536. Heat treated using a proprietary process.

LUG
Locators Polyurethane, a thermal plastic.

GLAND BOLTS AND NUTS
High strength low alloy steel T-head bolt. National coarse rolled thread and heavy hex nut. Steel meets ASTM A 588 composition specifications. Stainless steel bolts and nuts available on request, this option will be provided as all thread rod and two nuts.

COATINGS
Shop coat applied to cast parts for corrosion protection in transit. Fusion bonded epoxy, RomaGrip Romabond polyester, available on request.

FLANGE
Compatible with ANSI Class 125 and 150 bolt circles.

STANDARD

Romac couplings meet the specifications set forth in the AWWA Standard C219 coupling spec.

PERFORMANCE

NOM. PIPE SIZE (INCHES)	PRESSURE RATING (PSI) WORKING	TEST	MAX. JOINT DEFLECTION (°)	PIPE INSERTION (INCHES) MINIMUM*	MAXIMUM	Δ
14	275	412	2.0	2.06	8.0	5.94
16	275	412	2.0	2.06	8.0	5.94
18	250	375	1.5	2.06	8.0	5.94
20	250	375	1.3	2.06	8.0	5.94
24	250	375	1.0	2.06	8.0	5.94

* From face of coupling body MJ Bell to pipe end.

SIZES & RANGES

See Catalog.

This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.

09/28/2020
Document # 20-8-0019

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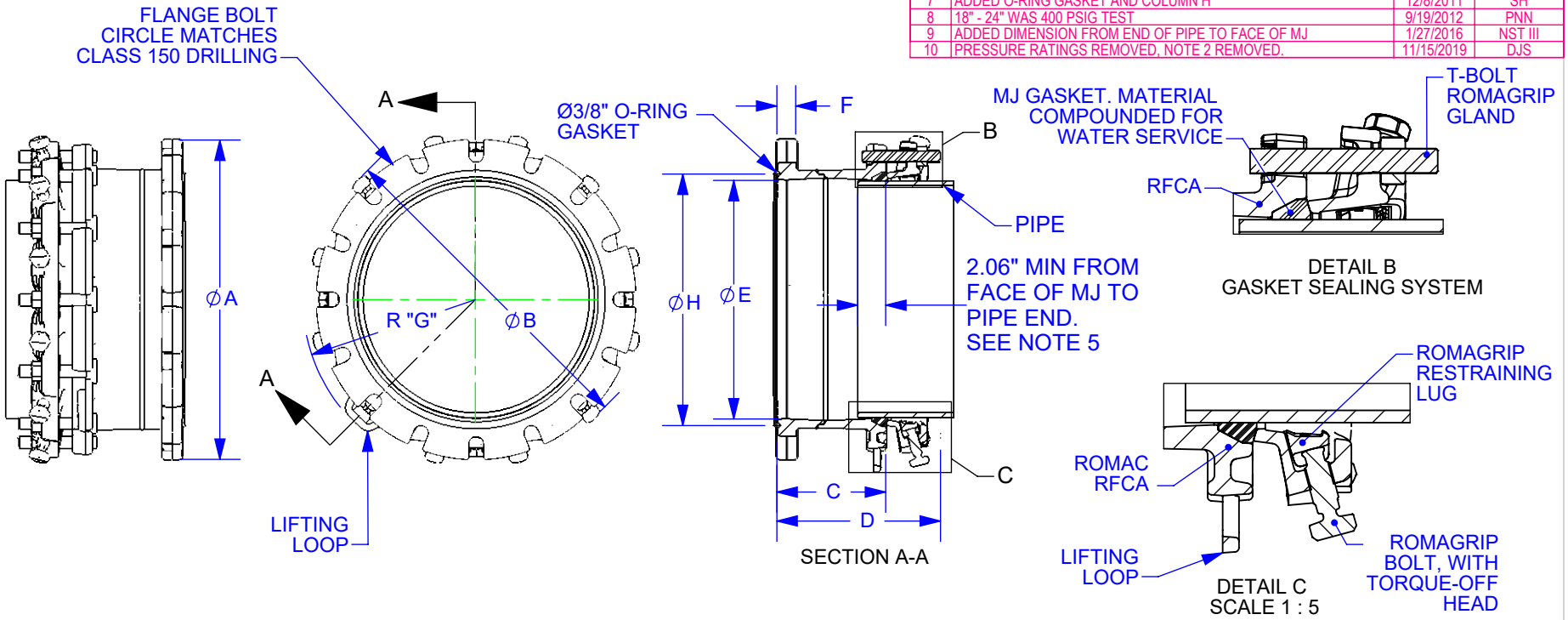
B1950-A

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	1/11/2002	NST III
1	CHANGED NAME TO RFCA, WAS FCR	12/20/2002	NST III
2	ADDED NOTE 5 & ADDED 10" MIN DIMENSION	2/4/2003	NST III
3	ADDED PVC PIPE TO NOTE 4. ADDED "F" DIM.	5/6/2004	NST III
4	ADDED LOOP TO RFCA	2/5/2007	NST III
5	PRESSURE RATING FOR 18-24 WAS 275 PSI	5/28/2009	NST III
6	REVISED NOTE 1 TO CLARIFY APPLICATION OF NSF RATING	5/13/2011	SH
7	ADDED O-RING GASKET AND COLUMN H	12/8/2011	SH
8	18" - 24" WAS 400 PSIG TEST	9/19/2012	PNN
9	ADDED DIMENSION FROM END OF PIPE TO FACE OF MJ	1/27/2016	NST III
10	PRESSURE RATINGS REMOVED, NOTE 2 REMOVED.	11/15/2019	DJS



NOTES:
1. COATING: ROMAC SHOPCOAT PAINT. NSF 61 CERTIFIED FUSION BONDED EPOXY AVAILABLE.
2. DUCTILE IRON AND T-BOLTS PER AWWA C111. STAINLESS STEEL FASTENERS AVAILABLE.
3. FOR USE ON DUCTILE IRON AND PVC PIPE (A ROMAC RG-PVC RESTRAINER IS REQUIRED FOR PVC).
4. THE MINIMUM PIPE INSERTION IS 1.0" AT BOTH ZERO DEFLECTION AND AT MAXIMUM DEFLECTION VALUES (SEE TABLE).

NOM. SIZE	DEFL. (deg)	FLG OD A	RG MAX B	T BOLTS QTY	T BOLTS SIZE	T BOLTS LGTH	DIMENSIONS C	D	E	F	G	H (O-RING)	WGT, LBS
14	2.0	21.0	22.0	10	3/4"	4.5	8.00	11.70	15.44	1.38	11.59	16.38	170
16	2.0	23.5	24.1	12	3/4"	4.5	8.00	11.70	17.54	1.44	12.72	18.48	200
18	1.5	25.0	26.3	12	3/4"	4.5	8.00	11.80	19.64	1.45	13.88	20.57	217
20	1.5	27.5	28.4	14	3/4"	4.5	8.00	11.80	21.74	1.47	14.63	22.63	256
24	1.5	32.0	32.6	16	3/4"	5.0	8.00	12.00	25.94	1.50	17.06	26.88	305

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES ARE ON:
1 PL DECIMALS ± .060
2 PL DECIMALS ± .030
3 PL DECIMALS ± .010
ANGLES ± 1°
FRACTIONS ± 1/64

SIGNATURES

DRAWN
NIELS THOGERSEN III 01/27/2016

CHECKED

APPROVAL ORGANIZATIONS
ENGINEERING

ROMAC INDUSTRIES INC.,
BOTHELL, WA

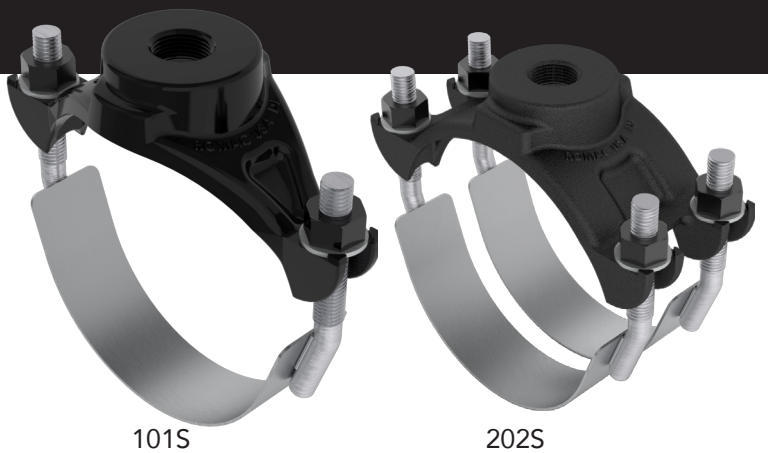
TITLE
14" - 24" RFCA
RESTRAINED FLANGED
COUPLING ADAPTER

DWG. NO.	SIZE	REV. NO.	SCALE	SHEET
B1950-A	A	10	NTS	1 OF 1

DRAWING FILE NAME: B1950 RFCA 14-24 | MODEL NAME: 16 RG-FCA 2 | CONFIGURATION NAME:Full - T-Bolts | AUTHOR: NIELS THOGERSEN III

101S & 202S
SERVICE SADDLES

SUBMITTAL INFORMATION



101S 202S

MATERIALS

CASTING
The saddle body is cast from ductile (nodular) iron, meeting or exceeding ASTM A 536, Grade 65-45-12.

GASKET
Gasket is made from Nitrile Butadiene Rubber (NBR) compounded for water and sewer service and a tolerance of petroleum products in accordance with ASTM D 2000 MBC 610 and NSF 61 Certified. Other compounds available for special applications.

STRAPS
Type 304 (18-8) heavy gauge Stainless Steel per ASTM A 240. Straps are two inches wide to spread out clamping forces on the pipe. GMAW and GTAW welds. Passivated for corrosion resistance.

BOLTS, NUTS
For sizes 1-1/2" through 3", 1/2" UNC roll thread Type 304 (18-8) Stainless Steel bolts with heavy hex nuts. 4" and above use 5/8" UNC roll thread Type 304 (18-8) Stainless Steel bolts with heavy hex nuts. Rod for bolts are per ASTM A 240 and nuts are per ASTM A 194. All welds fully passivated for enhanced corrosion resistance. Nuts coated to prevent galling.

WASHERS
Flat, type 304 (18-8) heavy gauge Stainless Steel.

COATINGS
Shop coat applied to cast parts for corrosion protection in transit.

PRESSURE

Ductile iron, cast iron and steel pipe: rating of pipe up to 350 psi maximum, on pipe sizes up through 24 inch, larger than 24 inch up to 30 inch pressure rating is 150 psi. PVC, asbestos cement and other pipe: up to the maximum rating of the pipe. For other applications please consult your representative.

STANDARD

Romac 101 & 202 service saddles are in compliance with ANSI/AWWA C800-21.

SIZES & RANGES

See catalog, sizes up through 32.10.

06/28/2024
Document # 25-8-0002

ROMAC INDUSTRIES, INC.
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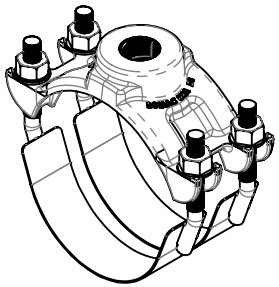
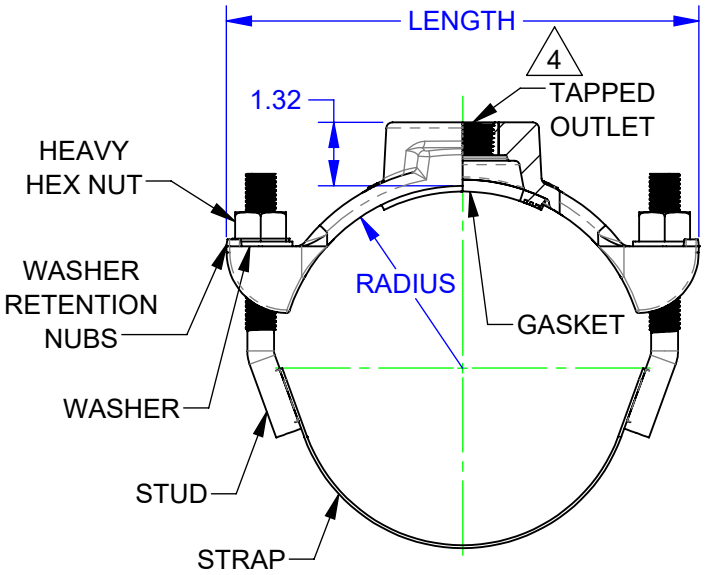
Phone (425) 951-6200 • 1-800-426-9341 • Fax (425) 951-6201

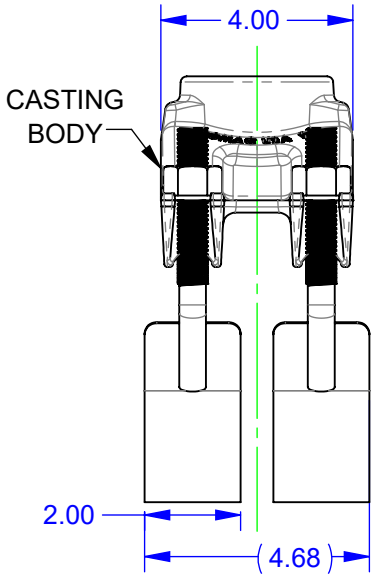
CAD-053015

NOMINAL SIZE (IN)	PIPE OD RANGE (IN)	RADIUS (IN)	LENGTH (IN)
4	4.00 - 4.50	2.25	6.85
	4.50 - 4.80	2.40	6.99
	4.50 - 5.40	2.70	7.51
6	6.00 - 6.63	3.32	8.84
	6.63 - 6.90	3.45	8.98
	6.63 - 7.60	3.80	9.85
8	8.00 - 8.63	4.32	10.58
	8.63 - 9.05	4.53	11.00
	8.63 - 9.80	4.90	11.68
10	10.00 - 11.10	5.55	13.00
	11.10 - 12.12	6.06	14.00
12	12.00 - 13.20	6.60	15.05
	13.20 - 14.38	7.19	16.19
14	15.30 - 16.80	8.40	11.93
16	17.40 - 18.90	9.45	12.62
18	19.50 - 21.10	10.55	12.71
20	21.10 - 22.70	11.35	12.76
22	22.70 - 24.30	12.15	14.58
24	24.30 - 25.90	12.95	14.64
26	25.70 - 27.30	13.65	14.68
28	27.30 - 28.90	14.45	14.72
30	28.90 - 30.50	15.25	14.75
	30.50 - 32.10	16.05	14.78



REVISIONS				
REV.		DESCRIPTION	DATE	EDITOR
R1	A	UPDATED NYLON COATING THICKNESS FROM 10-12 TO 10-14	4/13/22	RBA





NOTES:
1. CASTING BODY: DUCTILE IRON PER ASTM A536 65-45-12.
2. STRAP, STUD, & NUT: TYPE 304 STAINLESS STEEL.
3. STUD & NUT: 5/8-11 UNC.
4. OUTLET: UP TO 2.5" "IP" (NPT) OR 2" "CC" (PER AWWA C800) TAP SIZES.
5. GASKET: NBR PER ASTM D2000 MBC 610. EPDM AVAILABLE UPON REQUEST.
6. WELDING: GMAW. CHEMICALLY CLEANED AND PASSIVATED.
7. COATING:
   - 202S: SHOP COAT ENAMEL
   - A • 202NS: NYLON COATING 10-14 MILS THICK
   - NUTS: BLACK EPOXY E-COAT

PROPRIETARY NOTICE	UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
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		APPROVED: Caitlin Boone	4/13/2022

ROMAC INDUSTRIES INC.

TITLE: DI SADDLES 202S & 202NS, 4" - 30"

DWG. NO.	SIZE	REV. NO.	SCALE	SHEET
CAD-053015	A	R1	NTS	1 OF 1

MODEL NAME: SERVICE SADDLE, ASSEM, DI, 202, 07.60 IN
MODEL CAD #: CAD-050490

CONFIGURATION NAME: Strap

THIRD ANGLE PROJECTION

LEGACY DRAWING #: CAD-021165
DRAWING FILE NAME:
SERVICE SADDLE, ASSEM, DI, 202, STRAP, 4 - 30 IN

AUTHOR: Kevin Tam

FOR CUSTOMER USE

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A-NPD_R3