

03-10

**ROGERS WATER UTILITIES SEWER SYSTEM
ROGERS, ARKANSAS**

**SPECIFICATIONS FOR SERVICE SADDLES,
REPAIR COUPLINGS AND CLAMPS
DECEMBER 2004**

1. **SCOPE**

This product specification covers service saddles, repair couplings and clamps to be used on sanitary sewer mains for nominal pipe sizes of 8 in., 10 in., 12 in., 15 in., 16 in., 18 in., 24 in., 30 in. and 36 in. Service saddles, repair couplings and repair clamps are not an allowed for use on new construction.

2. **GENERAL REQUIREMENTS FOR SERVICE SADDLES**

- a. This specification covers flexible rubber sewer service saddles for 4 inch taps.
- b. The service saddle shall have two clamps to the sewer main and one clamp to the sewer service.
- c. Clamps shall be 300 series marine grade stainless steel conforming to ASTM A240.
- d. Flexible service saddle shall be manufactured with natural and synthetic rubber conforming to ASTM C425 and C117.

3. **GENERAL REQUIREMENTS FOR REPAIR COUPLINGS**

- a. Flexible coupling and end cap shall be manufactured with natural and synthetic rubber conforming to ASTM C425 and C117.
- b. Clamps shall be 300 series marine grade stainless steel conforming to ASTM A240.
- c. Couplings within traffic areas or unstable soil conditions shall have a 300 series marine grade stainless steel shear ring conforming to ASTM A240.

4. **GENERAL REQUIREMENTS FOR REPAIR CLAMPS**

- a. Band or shell shall be of the OD size range and length specified. Band shall be of Type 304 stainless steel.

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- b. Lugs shall be of high strength ductile iron per ASTM A536 and securely attached to the band or shell. Each lug shall be designed to allow, “Drop in bolts” and stabilizing “Fingers” to provide maximum torque of the bolts.
- c. Gasket shall provide a 360 degree sealing surfaces and of such size and shape to provide an adequate compressive force against the pipe after assembly to affect a positive seal under all combinations of joint and gasket tolerances. Materials used shall be vulcanized natural or vulcanized synthetic rubber with antioxidant and antioinzninant ingredients to resist set after installation. No reclaim rubber shall be used. A heavy gauge Type 304 stainless steel armor plate shall be vulcanized into the gasket to span the lug area.
- d. Bolts shall be of high strength, low alloy steel with semi finished hexagon nuts and washers in accordance with AWWA/ANSI C111/A21.11.
- e. Bolts and lugs shall be designed to be closed on one side.

5. QUALITY ASSURANCE

- a. The Rogers Water Utilities may, at no cost to the manufacturer, subject random service saddles, repair couplings and clamps to testing by an independent laboratory for compliance with these standards. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting.
- b. All service saddles, repair couplings and clamps shall be domestically manufactured.

The following manufactures are approved for service saddles, repair couplings and clamps.

APPROVED SERVICE SADDLE MANUFACTURERS LIST

<u>Manufacturer</u>	<u>Model</u>
Romac Industries, Inc.	304
NDS, Inc.	DFW-4T/C
Ford Meter Company	FS304

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APPROVED REPAIR COUPLING MANUFACTURERS LIST

<u>Manufacturer</u>	<u>Repair Coupling Model</u>
Fernco, Inc.	1056
NDS, Inc.	DFW01, DFW02, DFW56
Mission Rubber Company	MR56

APPROVED REPAIR CLAMPS MANUFACTURERS LIST

<u>Manufacturer</u>	<u>Repair Clamp Model</u>
Dresser Piping Specialties	360
JCM Industries, Inc.	101,102
Romac Industries, Inc.	CL1, CL2, CL3
Smith-Blair, Inc.	226, 227, 228
Mueller Company	500 Series