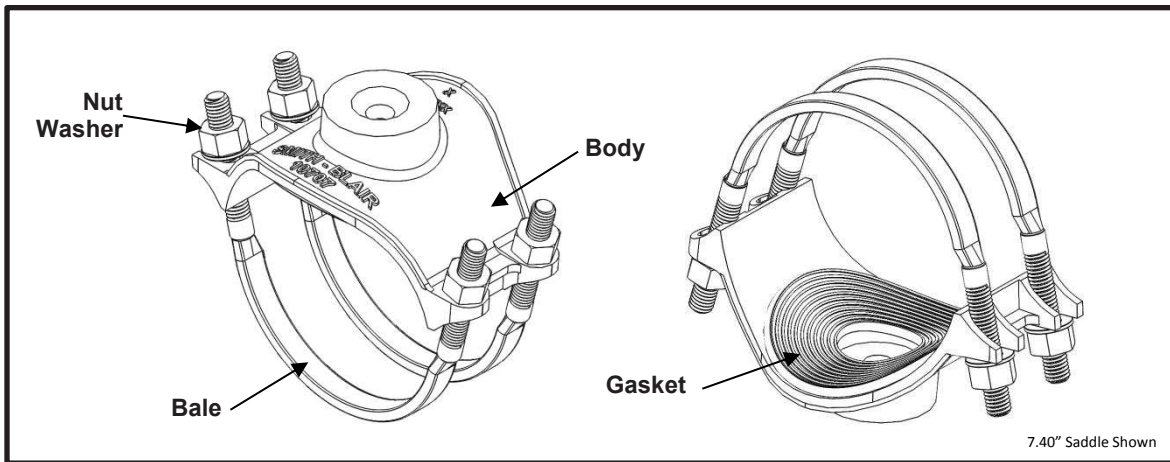


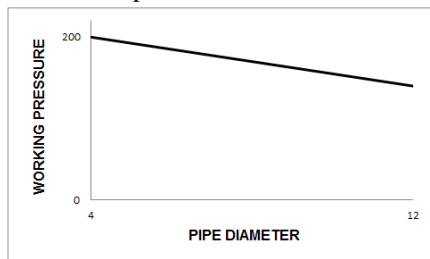
# SPECIFICATION REPAIR SERVICE SADDLE MODEL 331



## APPLICATIONS

- **Typical Uses**
  - Repair and restore damaged branch connections
  - Tapping branch connections on new or existing pipe
  - Installing air/vacuum valves, pitot tubes, drain valves, or other miscellaneous service equipment
  - Installing pipe supports, hangers, or sign mounting brackets
- **Standard Pipe Sizes**
  - 4" to 12" nominal
- **Standard Taps**
  - NPT: 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"
  - CC/AWWA: 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2"
  - BSP: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

*See Smith-Blair catalog for available pipe diameter and tap size combinations as some combinations are not available*
- **Type of Pipe**
  - Carbon Steel, Stainless Steel, Ductile Iron, Asbestos Cement, Aluminum
- **Working Pressure**
  - Up to 200 psi depending on type of pipe, type of repair, pipe diameter, service conditions, and installation workmanship





# SPECIFICATION

## REPAIR SERVICE SADDLE

### MODEL 331

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#### MATERIALS

- **Body**
  - Cast using Ductile Iron 65-45-12 per ASTM A536
  - Flexi-Coat® fusion bonded epoxy finish which meets application methods AWWA C213
  - Closed ear holds nut and bale in place allowing the assembly to hinge for ease of installation around pipe
  - Open ear provides easy slip on installation and removal of nuts are not required preventing lost hardware
  - Canted ears for maximum tangential tightening of bale
  - Wraparound design provides maximum pipe support , reinforcement, and sealing pressure
  - Wide skirt design provides excellent stability on the pipe
- **Bale**
  - HSLA Carbon Steel per AWWA C111/A21.11
  - Fe/Zn coated per ASTM F1941-10
  - 5/8"-11UNC
- **Gasket**
  - Nitrile (Buna-N) per ASTM D2000
  - Gasket Thickness: 0.25"
  - NSF/ANSI 61 and 372 certified
  - Compounded to resist water, oil, natural gas, acids, alkalies, most (aliphatic) hydrocarbon fluids, and many other chemicals
  - Temperature range: -20°F to +180°F
  - Standard 6.25" diameter gasket has concentric-ribbed pattern to better conform to pipe surface irregularities to ensure positive, dependable, seal of damaged areas up to 4.25" in diameter
- **Nuts**
  - Carbon Steel per ASTM A307
  - Fe/Zn coated per ASTM F1941-10
  - 5/8"-11UNC Heavy Hex Semi-Finished
- **Washer**
  - Carbon Steel per ASTM A108
  - Fe/Zn coated per ASTM F1941-10
  - 5/8" Type A Plain

#### LISTINGS

- Certified to NSF/ANSI 61-G & 372
- Meets applicable AWWA C800 standards

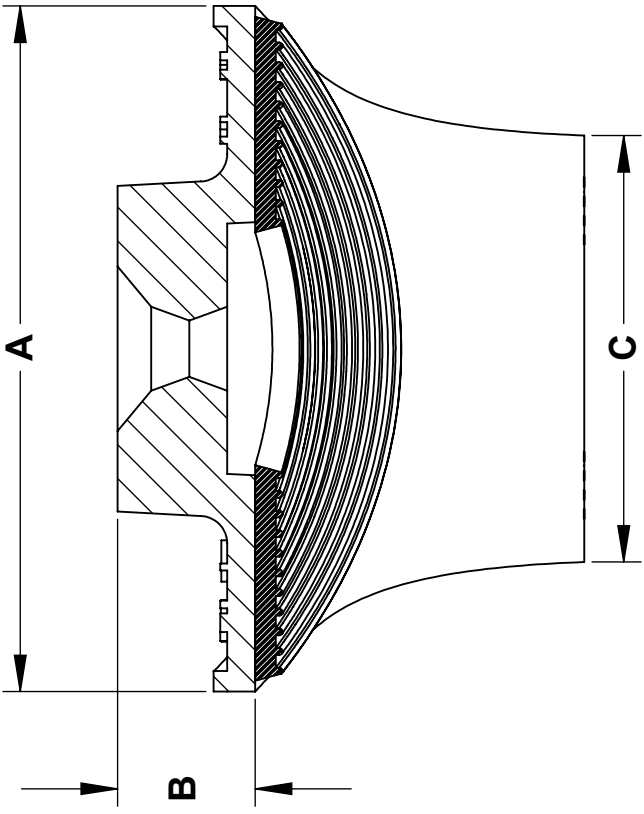
#### OPTIONS

- Type 304 Stainless Steel bale with fluoropolymer coated 304 Stainless Steel nuts to prevent galling
- Anode connector

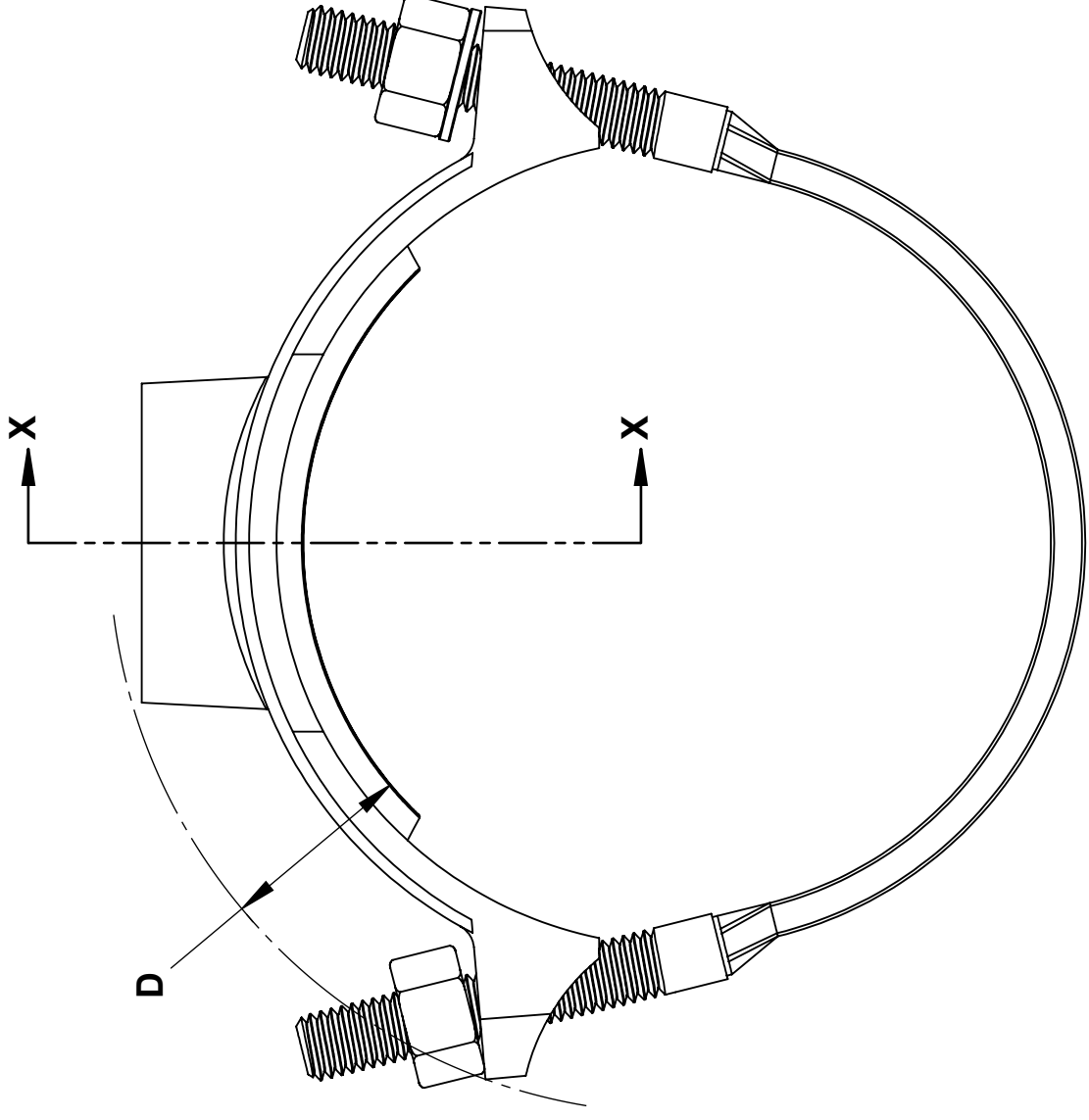
#### NOTES

- These product specifications were correct at the time of publication and are subject to change without notice
- Flexi-Coat® is a registered trademark of Smith-Blair Inc.
- See the Smith-Blair® web site for part numbers and ordering information
- See the Smith-Blair® web site for warranty information
- See the Smith-Blair® web site for corrosion warnings

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SECTION X-X



- NOTES:**
1. SEE SMITH-BLAIR CATALOG FOR AVAILABLE PIPE DIAMETER AND TAP SIZE COMBINATIONS AS SOME COMBINATIONS ARE NOT AVAILABLE
  2. 7.40" SADDLE SHOWN OTHER SIZES SIMILAR

NOMINAL SIZE	APPROX. WT. (LB)	A	B	C	D	SOCKET SIZE
4.00	3					
6.00	4					
8.00	4	6.44	1.60	3.88	2.00	1-1/16"
10.00	6					
12.00	7					

TAP CHART					
SIZE	NPT	CC	BSP		
1/2"	03	04	59		
5/8"	-	05	-		
3/4"	06	07	50		
1"	08	09	51		
1-1/4"	10	11	54		
1-1/2"	12	13	52		
2"	14	-	53		

CERTIFIED TO NSF/ANSI 61-G & 372

TOLERANCES U.N.O. XX= ±.03 XXX= ±.015 FRACTIONS= ±.015 ANGLES= ±1° MACH. FIN=	NOTES: REMOVE BURRS AND SHARP EDGES DO NOT SCALE DWG.	APP'D	DATE
SCALE: N/A		CK'D	DATE
ALL DIMENSIONS ARE IN INCHES.		DRN	DATE

TITLE		SPECIFICATION	
REPAIR SERVICE SADDLE		MODEL 331	
SMITH-BLAIR, Inc.		P/N	
TEXARKANA, ARKANSAS		N/A	
DWG. NO.		REV.	
SPEC_331.DRW		1 OF 1	
		3/8/16 SHEET	