



# Service Saddle

## Double Bale

# 313

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**Description:** Double bale Ductile Iron service saddle with TaperSeal™ gasket and wraparound bales to connect branch lines, instruments, and other appurtenances to pipe.

**Application:** Tapping pipe for branch connections and to install service connections, air and vacuum valves.

### Key Features:

- Meets applicable AWWA C800 Standards
- The wide saddle body provides stability on the pipe
- The gasket is fully bonded to the cavity to hold it in place
- NPT, CC and other threaded outlets available in sizes 5/8" thru 4"
- A closed lug on one side, combined with the bale, acts as a hinge for easier installation

### Materials Specifications (subject to change):

BODY: Ductile Iron per ASTM A536

BALE: Carbon Steel ASTM A108 (C1018) or HSLA (C111) electro-galvanized with di-chromate seal ASTM-B633

NUTS: Cold formed semi-finished heavy hex Steel A563 electro-galvanized with di-chromate seal ASTM-B633

WASHERS: Carbon Steel ASTM A108, electro-galvanized with a di-chromate seal ASTM B633

GASKET: Nitrile (Buna N) NSF 61® compounded to resist oil, acids, alkalies, most (aliphatic) hydrocarbon fluids, water and other chemicals

Temperature Range: -20°F to 180°F

FINISH: Flexi-Coat® Fusion-Bonded Epoxy Finish, per AWWA C213

*Optional: 304 Stainless Steel hardware available upon request*

**Working Pressure:** Up to 300 PSI, depending on size and application

**Pipe Applications:** Steel, Ductile Iron, and Cast Iron. For other pipe material, please contact Smith-Blair Engineering.

**Taps:** 3/4" and 1" NPT taps; 1 1/4", 1 1/2", 2" and 2 1/2" NPT taps, 3" & 4" NPT taps; 5/8", 3/4" and 1" CC taps; 1 1/4", 1 1/2" and 2" CC taps

**Sizes (in inches):** Varies by tap type; see tables for size details



# Service Saddle

## Double Bale

313

5/8", 3/4" and 1" CC Taps

STANDARD			CATALOG NUMBER			CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	5/8" CC/16 MM	3/4" CC/20 MM	1" CC/25 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
1-1/4-1-1/2	1.61-1.92	3	313-00019205-000	313-00019207-000	313-00019209-000	6	32-40	41-48	1
2	2.35-2.56	3	313-00025605-000	313-00025607-000	313-00025609-000	6	50	60-65	1
2-1/4-2-1/2	2.44-2.91	3	313-00029105-000	313-00029107-000	313-00029109-000	6	57-63	62-73	2
3	2.97-3.54	4	313-00035405-000	313-00035407-000	313-00035409-000	6	80	76-89	2
3-4	3.74-4.13	6	313-00041305-000	313-00041307-000	313-00041309-000	6	80-100	95-105	3
4	4.40-4.50	6	313-00045005-000	313-00045007-000	313-00045009-000	6	100	112-114	3
4	4.40-4.80	6	313-00048005-000	313-00048007-000	313-00048009-000	6	100	112-122	3
4-5	5.00-5.63	6	313-00056305-000	313-00056307-000	313-00056309-000	6	100-125	121-143	3
6	5.94-6.70	6	313-00066305-000	313-00066307-000	313-00066309-000	4	150	151-170	3
6	5.94-6.90	6	313-00069005-000	313-00069007-000	313-00069009-000	4	150	151-175	3
6	6.84-7.60	7	313-00076005-000	313-00076007-000	313-00076009-000	4	150	174-193	3
6-8	7.69-8.72	7	313-00087205-000	313-00087207-000	313-00087209-000	4	150-200	195-221	4
6-8	7.69-9.05	8	313-00090505-000	313-00090507-000	313-00090509-000	4	150-200	195-230	4
8-10	8.54-10.10	8	313-00101005-000	313-00101007-000	313-00101009-000	4	200-250	217-256	4
10	10.75-11.10	10	313-00111005-000	313-00111007-000	313-00111009-000	4	250	273-282	4
10-12	10.64-12.12	10	313-00121205-000	313-00121207-000	313-00121209-000	4	250-300	271-307	4
12	12.75-13.20	14	313-00132005-000	313-00132007-000	313-00132009-000	4	300	324-335	7
12-14	12.62-14.32	15	313-00143205-000	313-00143207-000	313-00143209-000	4	300-350	321-363	7
12-14	14.73-15.65	18	313-00156505-000	313-00156507-000	313-00156509-000	1	300-350	375-397	8
14-16	15.95-17.25	19	313-00172505-000	313-00172507-000	313-00172509-000	1	350-400	406-438	9
16	17.25-17.80	19	313-00178005-000	313-00178007-000	313-00178009-000	1	410	438-452	9
16-18	17.40-18.88	19	313-00188805-000	313-00188807-000	313-00188809-000	1	400-450	442-479	9
*18	19.38-19.68	20	313-00195005-000	313-00195007-000	313-00195009-000	1	450	492-500	9
*20	21.55-21.65	20	313-00216005-000	313-00216007-000	313-00216009-000	1	500	547-550	9
*24	25.75-25.85	20	313-00258005-000	313-00258007-000	313-00258009-000	1	600	654-657	9

\*Fabricated straps, epoxy coated carbon Steel.

1 1/4", 1 1/2" and 2" CC Taps

STANDARD			CATALOG NUMBER			CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	1-1/4" CC/32 MM	1-1/2" CC/40 MM	2" CC/50 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
2	2.35-2.56	3	313-00025611-000	-	-	6	50	60-65	1
	2.97-3.54	5	313-00035411-000	313-00035413-000	-	6	80	76-89	2
3-4	3.74-4.13	8	313-00041311-000	313-00041313-000	313-00041315-000	6	80-100	95-104	3
4	4.40-4.50	6	313-00045011-000	313-00045013-000	313-00045015-000	6	100	112-114	3
4	4.40-4.80	6	313-00048011-000	313-00048013-000	313-00048015-000	6	100	112-122	3
4-5	4.74-5.14	8	313-00051411-000	313-00051413-000	313-00051415-000	6	100-125	120-130	3
4-5	5.00-5.63	9	313-00056311-000	313-00056313-000	313-00056315-000	4	100-125	127-143	4
6	5.94-6.70	9	313-00066311-000	313-00066313-000	313-00066315-000	4	150	151-170	4
6	5.94-6.90	9	313-00069011-000	313-00069013-000	313-00069015-000	4	150	151-175	4
6	6.84-7.60	7	313-00076011-000	313-00076013-000	313-00076015-000	4	150	174-193	3
6-8	7.69-8.72	11	313-00087211-000	313-00087213-000	313-00087215-000	4	150-200	195-221	5
6-8	7.69-9.05	11	313-00090511-000	313-00090513-000	313-00090515-000	4	150-200	195-230	5
8-10	8.54-10.10	9	313-00101011-000	313-00101013-000	313-00101015-000	4	200-250	217-256	4
10	10.75-11.10	10	313-00111011-000	313-00111013-000	313-00111015-000	4	250	273-282	5
10-12	10.64-12.12	11	313-00121211-000	313-00121213-000	313-00121215-000	4	250-300	271-307	5
12	12.75-13.20	14	313-00132011-000	313-00132013-000	313-00132015-000	4	300	324-335	6
12-14	12.62-14.32	14	313-00143211-000	313-00143213-000	313-00143215-000	4	300-350	321-363	6
12-14	14.73-15.65	18	313-00156511-000	313-00156513-000	313-00156515-000	1	300-350	375-397	8
14-16	15.95-17.25	19	313-00172511-000	313-00172513-000	313-00172515-000	1	350-400	406-438	9

\*Fabricated straps, epoxy coated carbon Steel.

### 1¼", 1½" and 2" CC Taps Continued

STANDARD			CATALOG NUMBER			CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	1-1/4" CC/32 MM	1-1/2" CC/40 MM	2" CC/50 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
16	17.25-17.80	19	313-00178011-000	313-00178013-000	313-00178015-000	1	410	438-452	9
16-18	17.40-18.88	19	313-00188811-000	313-00188813-000	313-00188815-000	1	400-450	442-479	9
*18	19.38-19.68	20	313-00195011-000	313-00195013-000	313-00195015-000	1	450	492-500	9
*20	21.55-21.65	20	313-00216011-000	313-00216013-000	313-00216015-000	1	500	547-550	9
*24	25.75-25.85	20	313-00258011-000	313-00258013-000	313-00258015-000	1	600	654-657	9

\*Fabricated straps, epoxy coated carbon Steel.

### ¾" and 1" NPT Taps

STANDARD			CATALOG NUMBER		CTN. QTY	METRIC		
NOM. SIZE INCHES	O.D. RANGE INCHES	WT. EACH LBS.	¾" NPT/20 MM	1" NPT/25 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
1-1/4-1-1/2	1.61-1.92	3	313-00019206-000	313-00019208-000	6	32-40	41-48	1
2	2.35-2.56	3	313-00025606-000	313-00025608-000	6	50	60-65	1
2-1/4-2-1/2	2.44-2.91	3	313-00029106-000	313-00029108-000	6	57-65	62-73	2
3	2.97-3.54	4	313-00035406-000	313-00035408-000	6	80	76-89	2
3-4	3.74-4.13	6	313-00041306-000	313-00041308-000	6	80-100	95-105	3
4	4.40-4.50	6	313-00045006-000	313-00045008-000	6	100	112-114	3
4	4.40-4.80	6	313-00048006-000	313-00048008-000	6	100	112-122	3
4-5	5.00-5.63	6	313-00056306-000	313-00056308-000	6	100-125	121-143	3
6	5.94-6.70	6	313-00066306-000	313-00066308-000	4	150	151-170	3
6	5.94-6.90	6	313-00069006-000	313-00069008-000	4	150	151-175	3
6	6.84-7.60	7	313-00076006-000	313-00076008-000	4	150	174-193	3
6-8	7.69-8.72	8	313-00087206-000	313-00087208-000	4	150-200	195-221	4
6-8	7.69-9.05	8	313-00090506-000	313-00090508-000	4	150-200	195-230	4
8-10	8.54-10.10	8	313-00101006-000	313-00101008-000	4	200-250	217-256	4
10	10.75-11.10	10	313-00111006-000	313-00111008-000	4	250	273-282	4
10-12	10.64-12.12	10	313-00121206-000	313-00121208-000	4	250-300	271-307	4
12	12.75-13.20	14	313-00132006-000	313-00132008-000	4	300	324-335	7
12-14	12.62-14.32	15	313-00143206-000	313-00143208-000	4	300-350	321-363	7
12-14	14.73-15.65	18	313-00156506-000	313-00156508-000	1	300-350	375-397	8
14-16	15.95-17.25	19	313-00172506-000	313-00172508-000	1	350-400	406-438	9
16	17.25-17.80	19	313-00178006-000	313-00178008-000	1	410	438-452	9
16-18	17.40-18.88	19	313-00188806-000	313-00188808-000	1	400-450	442-479	9
*18	19.38-19.68	20	313-00195006-000	313-00195008-000	1	450	492-499	9
*20	21.55-21.65	20	313-00216006-000	313-00216008-000	1	500	547-550	9
*24	25.75-25.85	20	313-00258006-000	313-00258008-000	1	600	654-657	9

\*Fabricated straps, epoxy coated carbon Steel.

### 1¼", 1½", 2" and 2½" NPT Taps

STANDARD			CATALOG NUMBER				CTN. QTY	METRIC		
NOM. SIZE INCHES	O.D. RANGE INCHES	WT. EACH LBS.	1-1/4" NPT/32 MM	1-1/2" NPT/40 MM	2" NPT/50 MM	2-1/2" NPT/65 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
2	2.35-2.56	3	313-00025610-000	313-00025612-000	-	-	6	50	60-65	1
3	2.97-3.54	5	313-00035410-000	313-00035412-000	313-00035414-000	-	6	80	76-89	3
3-4	3.74-4.13	8	313-00041310-000	313-00041312-000	313-00041314-000	313-00041316-000	6	80-100	95-104	3
4	4.40-4.50	6	313-00045010-000	313-00045012-000	313-00045014-000	313-00045016-000	6	100	112-114	3
4	4.40-4.80	6	313-00048010-000	313-00048012-000	313-00048014-000	313-00048016-000	6	100	112-122	3
4-5	4.74-5.14	8	313-00051410-000	313-00051412-000	313-00051414-000	313-00051416-000	6	100-125	120-130	3
4-5	5.00-5.63	9	313-00056310-000	313-00056312-000	313-00056314-000	313-00056316-000	4	100-125	127-143	4
6	5.94-6.70	9	313-00066310-000	313-00066312-000	313-00066314-000	313-00066316-000	4	150	151-170	4

\*Fabricated straps, epoxy coated carbon Steel.

### 1 1/4", 1 1/2", 2" and 2 1/2" NPT Taps Continued

STANDARD			CATALOG NUMBER				CTN. QTY	METRIC		
NOM. SIZE INCHES	O.D. RANGE INCHES	WT. EACH LBS.	1-1/4" NPT/32 MM	1-1/2" NPT/40 MM	2" NPT/50 MM	2-1/2" NPT/65 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
6	5.94-6.90	9	313-00069010-000	313-00069012-000	313-00069014-000	313-00069016-000	4	150	151-175	4
6	6.84-7.60	7	313-00076010-000	313-00076012-000	313-00076014-000	313-00076016-000	4	150	174-193	3
6-8	7.69-8.72	11	313-00087210-000	313-00087212-000	313-00087214-000	313-00087216-000	4	150-200	195-221	5
6-8	7.69-9.05	11	313-00090510-000	313-00090512-000	313-00090514-000	313-00090516-000	4	150-200	195-230	5
8-10	8.54-10.10	9	313-00101010-000	313-00101012-000	313-00101014-000	313-00101016-000	4	200-250	217-256	4
10	10.75-11.10	10	313-00111010-000	313-00111012-000	313-00111014-000	313-00111016-000	4	250	273-282	4
10-12	10.64-12.12	11	313-00121210-000	313-00121212-000	313-00121214-000	313-00121216-000	4	250-300	271-307	5
12	12.75-13.20	15	313-00132010-000	313-00132012-000	313-00132014-000	313-00132016-000	4	300	324-355	7
12-14	12.62-14.32	14	313-00143210-000	313-00143212-000	313-00143214-000	313-00143216-000	4	300-350	321-363	6
12-14	14.73-15.65	18	313-00156510-000	313-00156512-000	313-00156514-000	313-00156516-000	1	300-350	375-397	8
14-16	15.95-17.25	19	313-00172510-000	313-00172512-000	313-00172514-000	313-00172516-000	1	350-400	406-438	9
16	17.25-17.80	19	313-00178010-000	313-00178012-000	313-00178014-000	313-00178016-000	1	410	438-452	9
16-18	17.40-18.88	19	313-00188810-000	313-00188812-000	313-00188814-000	313-00188816-000	1	400-450	442-479	9
*18	19.38-19.68	20	313-00195010-000	313-00195012-000	313-00195014-000	313-00195016-000	1	450	479-495	9
*20	21.55-21.65	20	313-00216010-000	313-00216012-000	313-00216014-000	313-00216016-000	1	500	547-550	9
*24	25.75-25.85	20	313-00258010-000	313-00258012-000	313-00258014-000	313-00258016-000	1	600	654-657	9

\*Fabricated straps, epoxy coated carbon Steel.

### 3" and 4" NPT Taps

STANDARD			CATALOG NUMBER		CTN. QTY	METRIC		
NOM. SIZE INCHES	O.D. RANGE INCHES	WT. EACH LBS.	3" NPT/80 MM	4" NPT/100 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
6	5.94-6.70	10	313-00066317-000	-	4	150	151-171	5
6	6.84-7.60	13	313-00076017-000	313-00076018-000	4	150	174-193	6
8-10	8.54-10.10	15	313-00101017-000	313-00101018-000	3	200-250	217-256	7
10	10.75-11.10	14	-	-	-	-	-	-
10-12	11.30-12.12	14	313-00121217-000	313-00121218-000	2	250-300	271-307	6
12	12.75-13.20	18	-	-	-	-	-	-
12-14	13.40-14.32	18	313-00143217-000	313-00143218-000	2	300-350	321-363	8
12-14	14.73-15.65	28	313-00156517-000	313-00156518-000	2	300-350	375-397	13
14-16	15.98-16.59	28	313-00165917-000	313-00165918-000	1	350-400	406-421	13
16	17.25-17.80	29	313-00178017-000	313-00178018-000	1	400	439-452	13
16-18	17.81-18.88	30	313-00188817-000	313-00188818-000	1	400-450	452-479	13
*18	19.38-19.68	30	313-00195017-000	313-00195018-000	1	450	492-500	14

\*Fabricated straps, epoxy coated carbon Steel. 1/2 inch I.P. Taps can be accommodated by inserting a bushing in the 3/4 inch taps.

### BSP Thread Tap Codes

SIZE	CODE NUMBER	EXAMPLE
1/2"	59	1-1/4" NPT 313-00025610-000
3/4"	50	
1"	51	
1 1/4"	54	
1 1/2"	52	1-1/4" BSP 313-00025654-000
2"	53	
2 1/2"	55	
3"	56	



# Service Saddle

## Single Stainless Steel Strap

# 315

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**Description:** Single strap, Ductile Iron service saddle with TaperSeal™ gasket and wraparound 304 Stainless Steel strap for added corrosion resistance

**Application:** For outlets of 5/8" through 2".

### Key Features:

- Meets applicable AWWA C800 Standards
- The wide saddle body provides stability on the pipe
- Designed with PVC and other soft or brittle pipe in mind
- The gasket is fully bonded to the cavity to hold it in place
- NPT, CC and other threaded outlets available in sizes 5/8" thru 4"
- Wide band spreads the load over larger area to prevent damage to the pipe when tightening the strap
- A closed lug on one side, combined with the strap, acts as a hinge for easier installation

### Materials Specifications (subject to change):

**BODIES:** Ductile Iron per ASTM A536

**STRAPS:** Type 304 Stainless Steel. Single Strap, 2" wide

**NUTS:** Type 304 Stainless Steel fluoropolymer coated

**WASHERS:** Type 304 Stainless Steel

**STUDS:** Type 304 Stainless Steel

**GASKET:** Nitrile (Buna N) NSF 61® compounded to resist oil, acids, alkalis, most (aliphatic) hydrocarbon fluids, water and other chemicals

**Temperature Range:** -20°F to 180°F

**FINISH:** Flexi-Coat® Fusion-Bonded Epoxy Finish

**Working Pressure:** Up to 200 PSI

**Pipe Applications:** Steel, Ductile Iron (depending on size and application), HDPE (when used with spring washers) Cast Iron, Asbestos Cement, PVC. For other pipe materials, please contact Smith-Blair Engineering.

**Taps:** 5/8", 3/4", 1", 1 1/4" and 1 1/2" CC Taps; 3/4", 1", 1 1/4", 1 1/2" and 2" NPT taps

**Sizes (in inches):** Varies by tap type; see tables for size details



# Service Saddle

## Single Stainless Steel Strap

315

5/8", 3/4" and 1" CC Taps

\*Sized for use on C900 PVC Pipe

STANDARD			CATALOG NUMBER			CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	5/8" CC/16 MM	3/4" CC/20 MM	1" CC/25 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
1	1.31-1.39	1	315-00013905-000	315-00013907-000	-	12	25-32	33-35	1
1-1/4-1-1/2	1.61-1.92	1	315-00019205-000	315-00019207-000	315-00019209-000	12	40	41-48	1
2	2.13	2	315-00021305-000	315-00021307-000	315-00021309-000	12	50	54	1
2	2.38	2	315-00023805-000	315-00023807-000	315-00023809-000	12	50	60	1
2	2.35-2.56	2	315-00025605-000	315-00025607-000	315-00025609-000	12	50	60-65	1
2-1/4-2-1/2	2.44-2.91	2	315-00029105-000	315-00029107-000	315-00029109-000	8	57-65	62-73	1
3	2.97-3.54	2	315-00035405-000	315-00035407-000	315-00035409-000	12	80	76-89	1
4	4.40-4.50	3	315-00045005-000	315-00045007-000	315-00045009-000	12	80-100	112-114	1
4	4.40-4.80	4	315-00048005-000	315-00048007-000	315-00048009-000	10	100	111-122	2
4-5	4.74-5.63	3	315-00056305-000	315-00056307-000	315-00056309-000	10	100-125	120-143	2
5-6	5.94-6.70	4	315-00066305-000	315-00066307-000	315-00066309-000	8	125-150	151-170	2
5-6*	5.94-6.90	4	315-00069005-000	315-00069007-000	315-00069009-000	8	125-150	151-175	2
6	6.84-7.60	4	315-00076005-000	315-00076007-000	315-00076009-000	10	150	174-193	2
6-8	7.69-8.72	5	315-00087205-000	315-00087207-000	315-00087209-000	10	150-200	195-221	2
6-8*	7.69-9.05	5	315-00090505-000	315-00090507-000	315-00090509-000	10	150-200	195-230	2
8-10	8.54-10.10	5	315-00101005-000	315-00101007-000	315-00101009-000	10	200-250	217-256	2
10-12	10.64-12.12	5	315-00121205-000	315-00121207-000	315-00121209-000	6	250-300	271-307	3
12	12.75-13.20	6	315-00132005-000	315-00132007-000	315-00132009-000	6	300	324-335	3
12-14	12.62-14.32	7	315-00143205-000	315-00143207-000	315-00143209-000	6	300-350	321-363	3

When sized properly, the designated product (denoted by \*) meets Uni-Bell's PVC Pipe Association's "Handbook for PVC Pipe" requirements and AWWA's Manual M23 PVC Pipe and Installation.

3/4" and 1" NPT Taps

\*Sized for use on C900 PVC Pipe

STANDARD			CATALOG NUMBER		CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	3/4" NPT/20 MM	1" NPT/25 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
1	1.31-1.39	1	315-00013906-000	-	12	25-32	33-35	1
1-1/4-1-1/2	1.61-1.92	1	315-00019206-000	315-00019208-000	12	40	41-48	1
2	2.13	2	315-00021306-000	315-00021308-000	12	50	54	1
2	2.38	2	315-00023806-000	315-00023808-000	12	50	60	1
2	2.35-2.56	2	315-00025606-000	315-00025608-000	12	50	60-65	1
2-1/4-2-1/2	2.44-2.91	2	315-00029106-000	315-00029108-000	8	57-65	62-73	1
3	2.97-3.54	2	315-00035406-000	315-00035408-000	12	80	76-89	1
4	4.40-4.50	3	315-00045006-000	315-00045008-000	12	100	112-114	1
4	4.40-4.80	4	315-00048006-000	315-00048008-000	10	100	112-122	2
4-5	4.74-5.63	3	315-00056306-000	315-00056308-000	10	100-125	121-143	2
5-6	5.94-6.70	4	315-00066306-000	315-00066308-000	8	125-150	151-170	2
5-6*	5.94-6.90	4	315-00069006-000	315-00069008-000	8	125-150	151-175	2
6	6.84-7.60	5	315-00076006-000	315-00076008-000	8	150	174-193	2
6-8	7.69-8.72	5	315-00087206-000	315-00087208-000	10	150-200	195-221	2
6-8*	7.69-9.05	5	315-00090506-000	315-00090508-000	10	150-200	195-230	2
8-10	8.54-10.10	5	315-00101006-000	315-00101008-000	10	200-250	217-256	2
10-12	10.64-12.12	5	315-00121206-000	315-00121208-000	6	250-300	271-307	3
12*	12.75-13.20	5	315-00132006-000	315-00132008-000	6	300	324-335	3
12-14	12.62-14.32	5	315-00143206-000	315-00143208-000	6	300-350	321-363	3

When sized properly, the designated product (denoted by \*) meets Uni-Bell's PVC Pipe Association's "Handbook for PVC Pipe" requirements and AWWA's Manual M23 PVC Pipe and Installation.

## 1¼" and 1½" CC Taps

\*Sized for use on C900 PVC Pipe

STANDARD			CATALOG NUMBER		CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	1-1/4" CC/32 MM	1-1/2" CC/40 MM		NOM. SIZE MM	O.D. RANGE MM	WT. EACH KG.
2	2.35-2.56	2	315-00025611-000	-	6	50	60-65	1
2-1/4-2-1/2	2.44-2.91	3	315-00029111-000	315-00029113-000	6	57-65	62-73	1
3	2.91-2.97	3	315-00035411-000	315-00035413-000	6	80	74-75	1
4	4.40-4.50	4	315-00045011-000	315-00045013-000	6	100	112-114	2
4	4.40-4.80	4	315-00048011-000	315-00048013-000	6	100	112-122	2
4-5	4.74-5.63	5	315-00056311-000	315-00056313-000	6	100-125	121-143	2
5-6	5.94-6.70	5	315-00066311-000	315-00066313-000	6	125-150	151-170	2
5-6*	5.94-6.90	5	315-00069011-000	315-00069013-000	6	125-150	151-175	2
6	6.84-7.60	6	315-00076011-000	315-00076013-000	6	150	174-193	3
6-8	7.69-8.72	6	315-00087211-000	315-00087213-000	6	150-200	195-221	3
6-8*	7.69-9.05	6	315-00090511-000	315-00090513-000	6	150-200	195-230	3
8-10	8.54-10.10	6	315-00101011-000	315-00101013-000	6	200-250	217-256	3
10-12	10.64-12.12	6	315-00121211-000	315-00121213-000	6	250-300	271-307	3
12*	12.75-13.20	6	315-00132011-000	315-00132013-000	6	300	324-335	3
12-14	12.62-14.32	6	315-00143211-000	315-00143213-000	6	300-350	321-363	3

When sized properly, the designated product (denoted by \*) meets Uni-Bell's PVC Pipe Association's "Handbook for PVC Pipe" requirements and AWWA's Manual M23 PVC Pipe and Installation.

## 1¼", 1½" and 2" NPT Taps

\*Sized for use on C900 PVC Pipe

STANDARD			CATALOG NUMBER			CTN. QTY	METRIC		
NOM. SIZES INCHES	O.D. RANGE INCHES	WT. EACH LBS.	1-1/4" NPT/32 MM	1-1/2" NPT/40 MM	2" NPT/50 MM		NOM. SIZE MM	O.D. RANGE MM	
2	2.35-2.56	2	315-00025610-000	315-00025612-000	-	6	50	60-65	1
2-1/4-2-1/2	2.44-2.91	3	315-00029110-000	315-00029112-000	-	6	57-65	62-73	1
3	2.97-3.54	3	315-00035410-000	315-00035412-000	-	6	80	76-89	1
4	4.40-4.50	4	315-00045010-000	315-00045012-000	315-00045014-000	6	100	112-114	2
4	4.40-4.80	4	315-00048010-000	315-00048012-000	315-00048014-000	6	100	112-122	2
4-5	4.74-5.63	5	315-00056310-000	315-00056312-000	315-00056314-000	6	100-125	121-143	2
5-6*	5.94-6.70	3	315-00066310-000	315-00066312-000	315-00066314-000	6	125-150	151-170	2
5-6	5.94-6.90	3	315-00069010-000	315-00069012-000	315-00069014-000	6	125-150	151-175	2
6	6.84-7.60	6	315-00076010-000	315-00076012-000	315-00076014-000	6	150	174-193	3
6-8	7.69-8.72	6	315-00087210-000	315-00087212-000	315-00087214-000	6	150-200	195-221	3
6-8*	7.69-9.05	6	315-00090510-000	315-00090512-000	315-00090514-000	6	150-200	195-230	3
8-10	8.54-10.10	6	315-00101010-000	315-00101012-000	315-00101014-000	6	200-250	217-256	3
10-12	10.64-12.12	6	315-00121210-000	315-00121212-000	315-00121214-000	6	250-300	271-307	3
12*	12.75-13.20	6	315-00132010-000	315-00132012-000	315-00132014-000	6	300	324-335	3
12-14	12.62-14.32	7	315-00143210-000	315-00143212-000	315-00143214-000	6	300-350	321-363	3

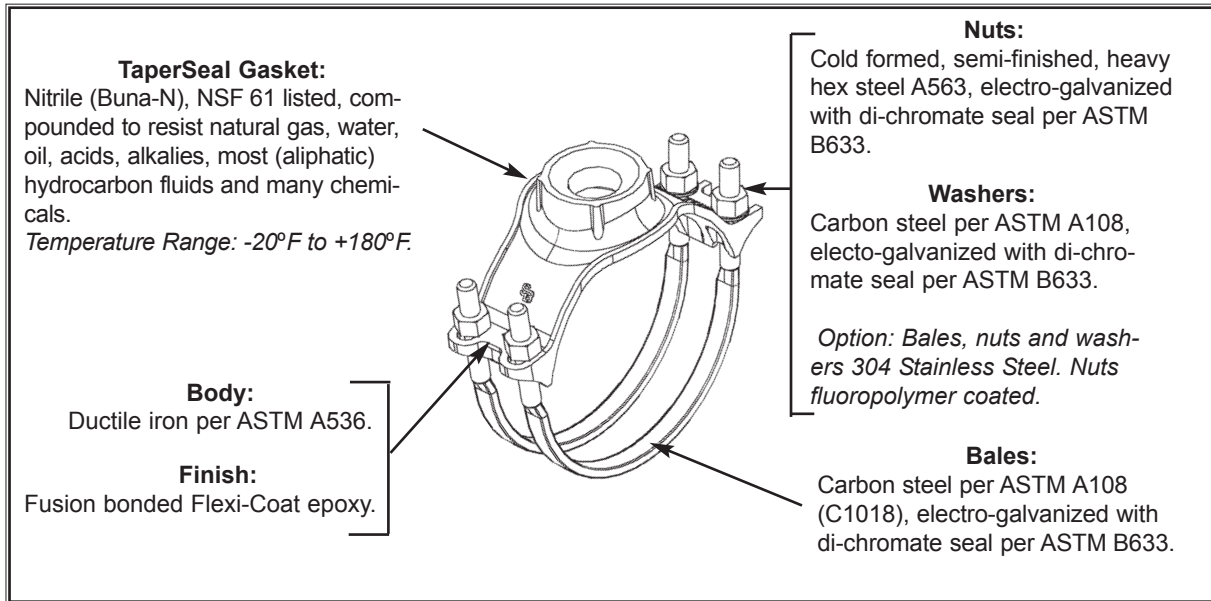
When sized properly, the designated product (denoted by \*) meets Uni-Bell's PVC Pipe Association's "Handbook for PVC Pipe" requirements and AWWA's Manual M23 PVC Pipe and Installation.

## BSP Thread Tap Codes

SIZE	CODE NUMBER	EXAMPLE
1/2"	59	3/4" NPT 315-00013906-000
3/4"	50	
1"	51	
1 1/4"	54	
1 1/2"	52	3/4" BSP 315-00013950-000
2"	53	
2 1/2"	55	
3"	56	

# 311 and 313 Ductile Iron Service Saddle

## Product Specifications



## Features:

- Certified to NSF®/ANSI 61-G.
- Meets applicable AWWA C800 Standards.
- The wide saddle body provides stability on the pipe.
- The gasket is fully cemented in a cavity to hold it in place.
- NPT, AWWA and other threaded outlets available in sizes 5/8" thru 4".
- The gasket's TaperSeal hydro-mechanical lip enables the saddle to hold high pressures with just a few pounds of torque.
- At recommended torque, the saddle will exceed the working pressure of most standard pipes.
- A closed lug on one side, combined with the bale or strap, acts as a hinge for easier installation.
- Provides maximum support of the pipe for better performance in the tapped area - nearly 360°.

Saddle Number	Size	Working Pressure
311	1" - 12" Nominal	Up to 300 PSI
313	1 1/4" - 18" Nominal	Up to 300 PSI



# Product Specifications

## SPECIFICATION:

The service saddle shall have a ductile iron body per ASTM A536. The saddle shall have an outlet for the service connection that will allow an NPT or AWWA thread to be tapped into it.

The saddle shall have one (311) or two (313) carbon steel bales per ASTM A108 (C1018) and be electro-galvanized with di-chromate seal per ASTM B633.

The nuts shall be cold formed semi-finished heavy hex steel A563 with an electro-galvanized with di-chromate seal per ASTM B633. The washers shall be carbon steel per ASTM A108 and electro-galvanized with di-

chromate seal per ASTM B633.

The gasket shall be a TaperSeal outlet gasket that has an hydro-mechanical lip that seals better on the pipe surface as the line content pressure increases.

The gasket shall be made of Nitrile (Buna N) and NSF 61 listed. The gasket shall be compounded to resist: water, oil acids, alkalies, most (aliphatic) hydrocarbon fluids and many other chemicals. The gasket shall have a temperature range of -20°F to +180°F. The gasket shall be fully cemented into a cavity to hold it in place around the outlet during installation.

The saddle shall be a Smith-Blair, Inc., 311, 313 or approved equal.

Approved By
<b>Name:</b>
<b>Title:</b>
<b>Date:</b>

*THESE PRODUCT SPECIFICATIONS WERE CORRECT AT TIME OF PUBLICATION.*

*MATERIAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.*

*SEE CATALOG BROCHURE CC-300 FOR MORE DETAILS. VISIT SMITH-BLAIR'S WEBSITE AT [WWW.SMITH-BLAIR.COM](http://WWW.SMITH-BLAIR.COM) TO DOWNLOAD THE MOST CURRENT INFORMATION.*



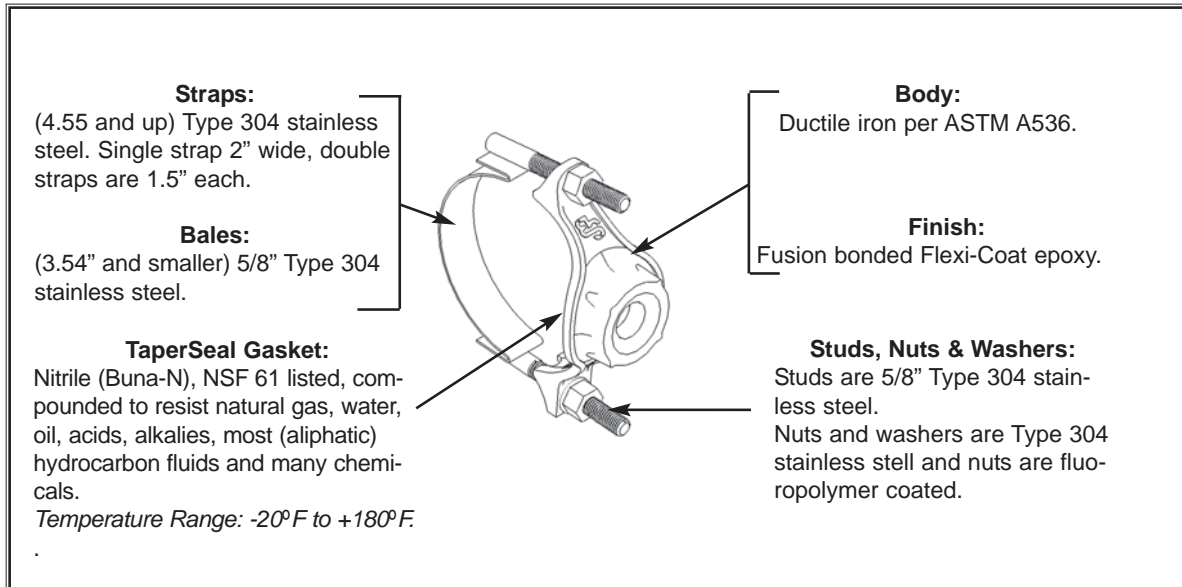
**Ph: 870-773-5127 • Fax: 870-773-5212 • [www.smith-blair.com](http://www.smith-blair.com)**

**Toll-Free Numbers: Ph: 800-643-9705 • Fax: 800-648-6792**

**30 Globe Ave, Texarkana, AR 71854 • PO Box 5337, Texarkana, TX 75505**

# 315, 317 and 357 Ductile Iron Service Saddle

## Product Specifications



## Features:

- Certified to NSF®/ANSI 61-G.
- Meets applicable AWWA C800 Standards.
- The wide saddle body provides stability on the pipe.
- Designed with PVC and other soft or brittle pipe in mind.
- The gasket is fully entrapped in a cavity to hold it in place.
- NPT, AWWA and other threaded outlets available in sizes 5/8" thru 4".
- The gasket's TaperSeal hydro-mechanical lip enables the saddle to hold high pressures with just a few pounds of torque.
- Wide bands spread the load over larger area to prevent damage to the pipe when tightening the bales or straps.
- At recommended torque, the saddle will exceed the working pressure of most standard pipes.
- A closed lug on one side, combined with the bale or strap, acts as a hinge for easier installation.
- Provides maximum support of the pipe for better performance in the tapped area - nearly 360°.

Saddle Number	Size	Working Pressure
315	1" - 12" Nominal	Up to 200 PSI
317	1 1/4" - 18" Nominal	Up to 300 PSI
357	6" - 12" Nominal	Up to 150 PSI

# Product Specifications

## SPECIFICATION:

The service saddle shall have a ductile iron body per ASTM A536. The saddle shall have an outlet for the service connection that will allow an NPT or AWWA thread to be tapped into it, in sizes from 5/8" through 4", depending on the saddle body size.

The 315 saddle shall have one 2" wide bale with strap inserted in 3.54" and smaller sizes and 2" straps above 3.54".

The 317 saddles shall have two 1½" bales with inserted straps in the 3.54" and smaller sizes and 2 straps 1 ½" wide above 3.54".

The 357 shall have 2 straps that are 2" wide each. The bales, straps, nuts and washers are to be 304 stainless steel. The nuts

are to be fluoropolymer coated.

The gasket shall be a TaperSeal gasket made of Nitrile (Buna N) and NSF 61 listed. The gasket shall be compounded to resist water, oil acids, alkalies, most (aliphatic) hydrocarbon fluids and many other chemicals. The gasket shall have a temperature range of -20°F +180°F. The gasket shall be fully entrapped in the saddle body to hold it in place.

The finish shall be a fusion bonded Flexi-Coat epoxy coating.

The saddle shall meet all applicable AWWA C800 standards and shall be NSF 61 listed.

The saddle shall be a Smith-Blair, Inc., 315, 317, 357 or approved equal.

### Approved By

Name:

Title:

Date:

*THESE PRODUCT SPECIFICATIONS WERE CORRECT AT TIME OF PUBLICATION.*

*MATERIAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.*

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