



Service Saddle

Double Bale

313



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

1¼", 1½", 2" and 2½" 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	313-00121017-000	313-00121018-000	2	250-300	271-307	6
12	12.75-13.20	18	-	-	-	-	-	-
12-14	13.40-14.32	18	313-00143017-000	313-00143018-000	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. ½ inch I.P. Taps can be accommodated by inserting a bushing in the ¾ 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	