



Service Saddle

Double Bale

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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

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.