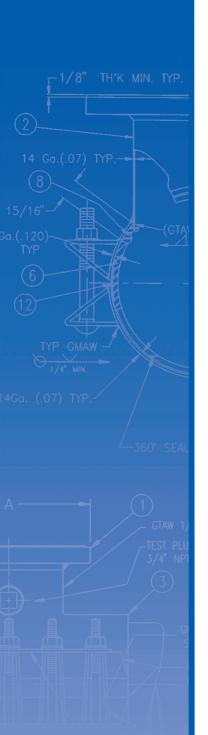


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# TAPPING & SERVICE SADDLES

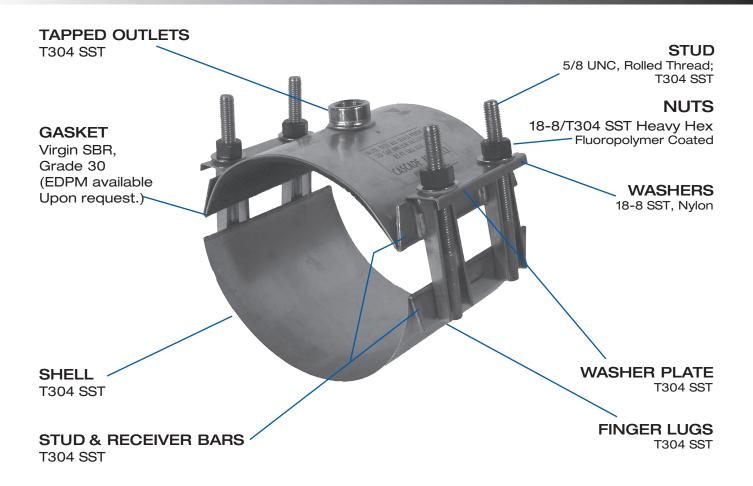


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### PIPE OUTSIDE DIAMETER GUIDE

Outside diameter of pipe may chasnge from time to time. The information contained in this chart is the best available from various manufacturers at the time of printing. An O.D. tape should be used to confirm actual diameters prior to ordering fittings.

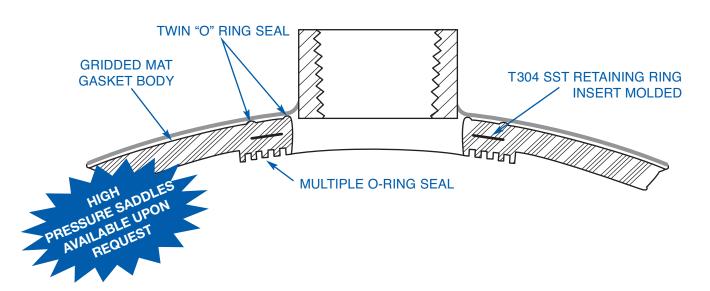
		_		IDO:	V P'	n=		0				CAS	ST I	RO	N F	PIPE											A	SBE	ST	OS-	CE	ME	NT	PIF	Έ							
ches)		L	CAST	IHOI	v PIF	E		40/80		ı	PVC				F	IDP	E			ches)			Cla	ss 1	00		<u></u>			Cla	ss 1	150		<u>a</u>			Cla	ss 2	200		<u></u>	ches)
Nominal Pipe Size (inches)	Ductile Iron Pipe	Class 100-250 AWWA Centrifugal	Class A AWWA Pit Cast	Class B AWWA Pit Cast	Class C AWWA Pit Cast	Class D AWWA Pit Cast	Copper Tubing	Steel Pipe - ANSI Schedule 40/80	Pressure Rated	C900 & C905	Schedule 40 / 80	Plastic Irrigation Pipe (PIP)	Sewer	IPS	DIPS	Dual	Wall HANCOR	(Storm) ADS	Ultra-Rib	Nominal Pipe Size (inches)	Machined End	Fluid-Tite Rough Barrel	Flinlite Rough Barrel	Ring-Tite Rough Barrel	Permaflex Rough Barrel	Minimum Std. Rough Barrel	Maximum Std. Rough Barrel	Machined End	Fluid-Tite Rough Barrel	Flinlite Rough Barrel	Ring-Tite Rough Barrel	Permaflex Rough Barrel	Minimum Std. Rough Barrel	Maximum Std. Rough Barrel	Machined End	Fluid-Tite Rough Barrel	Flinlite Rough Barrel	Ring-Tite Rough Barrel	Permaflex Rough Barrel	Minimum Std. Rough Barrel	Maximum Std. Rough Barrel	Nominal Pipe Size (inches)
64	65.67								64.00		64.00									64																						49
90	61.61							60.00	00.09	61.61	00.09						67.30	66.30		09																						99
24	57.56								54.00	50.80 57.56	42.00 48.00 54.00									24																						25
48	50.80		50.50	50.80	51.40	51.98		36.00 42.00 48.00	42.00 48.00	50.80	48.00		50.80	30.00 36.00 42.00 48.00	50.80	54.40	55.00	53.60		48																						8
45	44.50		44.20	38.30 44.50	45.10	45.58		45.00	45.00	38.30 44.50	45.00		38.30 44.50	45.00	38.30 44.50	48.10	41.40 48.00	47.70		45																						42
36	38.30		37.96		38.70	39.16			36.00	38.30	36.00		38.30	36.00	38.30	41.00	41.40	41.70		38																						98
30	32.00	32.00	31.74	32.00	32.40	32.74		30.00	30.00	32.00	30.00		32.00	30.00	32.00	35.40	36.00	35.10	32.37	30	33.12			33.80				35.00			35.42				37.06			37.48				೫
27													27.95				_		29.14	27													-		-							27
54	25.80	25.80	25.80	25.80	26.32	26.32		24.00	24.00	25.80	24.00	24.80	24.80	24.00	25.80	28.70	28.40	27.80	25.76	54	26.48			27.12		27.17	27.17	27.96			28.32		28.22	28.22	29.62			29.98				24
71													22.05						22.99	71																						7
20	21.60	21.60	21.60	21.60	22.06	22.06		20.00	20.00	21.60	20.00			18.00 20.00	21.60					20	22.12			22.68		22.50	22.50	23.28			23.64		23.54	23.54	24.66			25.02				8
18	19.50	19.50	19.50	19.50	19.92	19.92		16.00 18.00	18.00	19.50		18.70	18.70	18.00	19.50	21.60	21.50	21.20	19.45	18	19.91			20.44		20.44	20.44	20.94			21.30		21.20	21.20	22.18			18.90 22.54				8
16	17.40	17.40	17.40	17.40	17.80	17.80		16.00	16.00	17.40	16.00			16.00	17.40					16	17.15	17.50	17.60	17.65	17.55	17.50	17.94	18.46	18.65	18.72	18.72	18.75	18.62	18.97	18.46	18.74	18.84	18.90	18.90	18.74	19.19	16
15												15.30	15.30			17.70	17.70	17.57	15.91	15																						15
14	15.30	15.30	11.10 13.20 15.30	11.10 13.20 15.30	11.40 13.50 15.65	15.65		14.00		11.10 13.20 15.30	14.00	14.28		10.75 12.75 14.00	11.10 13.20 15.30					14	15.07	15.36	15.45	15.51	15.55	15.36	15.80	16.22	16.41	16.48	16.48	11.92 14.20 16.50	16.38	16.73	11.66 13.92 16.22	16.44	11.88 14.14 16.53	11.92 14.18 16.55	11.95 14.20 16.55	11.77 14.03 16.44	14.38 16.88	7
12	13.20	11.10 13.20	13.20	13.20	13.50	11.40 13.50		10.75 12.75	12.75	13.20	12.75	10.20 12.24	10.50 12.50	12.75	13.20	14.20	11.90 14.20	11.36 14.45	13.10	12	13.44	11.46 13.70	11.30 13.42	13.74	13.74	13.37	14.04	13.92	14.11	14.14	14.18	14.20	11.82 14.08	14.38	13.92	11.88 14.11	14.14	14.18	14.20	14.03	14.38	12
10	11.10								10.75		10.75					11.60			11.02	10	11.24			11.47	11.47	11.25	11.77	11.66	11.85	11.88	11.92			12.12							12.12	유
∞	9.05	9.05	9.05	9.05	9.30	9.30		8.63	8.63	9.02	8.63	8.16	8.40	8.63	9.02	9.50	9.40	9.11	8.81	∞	9.11	9.32	9.33	9.39	9.35	9.22	9.57	9.11	9.32	9.33	9.37	9.40	9.27	9.62	9.11	9.46	9.44	9.50	9.50	9.39	9.79	∞
9	06:9	6.90	06.90	7.10	7.10	7.10	6.13	6.63	6.63	6.90	6.63	6.14	6.28	6.63	06:90	08.9	06:90	6.92		9	6.91	7.16	7.13	7.19	7.15	7.05	7.40	6.91	7.12	7.13	7.17	7.20	7.07	7:37	6.91	7.36	7.26	7.32	7.26	7.26	7.60	9
2			_	L	_		5.13	5.56		L				5.56			_			2	_		_			_			_			_				-	-			-		2
4	4.80	4.80	4.80	2.00	2.00	2.00	4.13	4.50	4.50	4.80	4.50	4.13	4.22	4.50	3 4.80	4.60	4.70	4.78		4	4.64	3 5.05	4.90	5 4.92	4.84	4.79	5.26	4.81	3 5.14	1 5.01		5.00	4.97	5.35	1 4.81	3 5.32	5.32	5.33	5.35	9 5.22	5.57	4
3	3.96	3.96	3.80	3.96	3.96	3.96		3.50	3.50		3.50			3.50	3.96					3	3.74	3.93	3.94	3.95		4.00	4.00	3.84	4.03	4.04	4.13		4.10	4.10	3.84	4.18	4.17	4.17		4.29	4.29	3
2-1/2			0				3 2.63	3 2.88	3 2.88		3 2.88			3 2.88						2-1/2																						2-1/2
2			2.50				3 2.13	2.38	2.38		2.38			2.38						2																						2
1-1/4 1-1/2							3 1.63	1.90	3 1.90					1.90						1-1/4 1-1/2																						1-1/4 1-1/2
1-1/							1.38	1.66	1.66					1.66						1-1/																						+
-							3 1.13	5 1.32	5 1.32					5 1.32						-																						-
3/4							3 0.88	1.05	1.05					4 1.05						3/4																						3/4
1/2		_					0.63	0.84	0.84					0.84						1/2		_			_	-	<u></u>		_			_	_	<u>e</u>		_			_	_	<u></u>	1/2
Nominal Pipe Size (inches)	Ductile Iron Pipe	Class 100-250 AWWA Centrifugal	Class A AWWA Pit Cast	Class B AWWA Pit Cast	Class C AWWA Pit Cast	Class D AWWA Pit Cast	Copper Tubing	Steel Pipe - ANSI Schedule 40/80	Pressure Rated	C900 & C905	Schedule 40 / 80	Plastic Irrigation Pipe (PIP)	Sewer	BS	T DIPS	- PRINSCO		(Storm) ADS	Ultra-Rib	Nominal Pipe Size (inches)	Machined End	Fluid-Tite Rough Barrel	S Flinlite Rough Barrel	ഗ്ഗ് Ring-Tite Rough Barrel	Permaflex Rough Barrel	Minimum Std. Rough Barrel	Maximum Std. Rough Barrel	Machined End	Fluid-Tite Rough Barrel	S Flinlite Rough Barrel	Ring-Tite Rough Barrel		Minimum Std. Rough Barrel	Maximum Std. Rough Barrel	Machined End	Fluid-Tite Rough Barrel	C Flinlite Rough Barrel	% Ring-Tite Rough Barrel		Minimum Std. Rough Barrel	Maximum Std. Rough Barrel	Nominal Pipe Size (inches)
ĭ	Duct	CA	AST	IRO	NΡ	IPE	Copp	Steel					ST I	RO		IPE				N			Jid	JJ 1	.55		A	SBE		OS-			NT	PIF	Έ		Jid	JJ 1	_50			ž



ALL SURFACES ARE FULLY, CHEMICALLY PASSIVATED - ASTM A380

#### MULTIPLE O-RING RETAINED MAIN SEAL GASKET (Patents 6,173,967 B1 & 6,588,767 B2)

CASCADE EXCLUSIVE - Used on all CSC and CS Style Saddles. Excellent for HDPE Pipe, see HDPE products brochure.



#### **ALL STAINLESS STEEL SERVICE SADDLES DOUBLE BAND**

#### **FEATURES**

- Heavy Gauge Top Section for Strong Bond with Outlet
- Widest Range Saddle Available
- Fits All Standard Diameters for Pipes in Nominal Sizes
- Full Hoop Support Saddle Body Conforms to Pipe O.D.
- Certified NSF/ANSI 61

One saddle fits all types of pipe (AC, PVC, DI, Steel, CI)

#### **MATERIAL SPECIFICATIONS**

Body / Outlet: T304 SST

Gasket: SBR (EPDM available) -Triple O-ring surrounded by grid matt. Patents 6,173,967B1 & 6,588,767B2

Lugs / Washers / Washer Plates: T304 SST

Studs: 5/8 UNC, Rolled Thread; T304 SST Nuts: 5/8 UNC, Heavy Hex; 18-8/T304 SST,

Fluoropolymer Coated



#### **STYLE CS12** • 5" WIDE DOUBLE BAND SADDLE

34" or 1"; C.C. or I.P.

Catalog Number	Weight Each (lbs.)
CS12-0566-TAP	5.00

**SHELL WIDTH 5" MAXI-STRETCH** (RANGE - APPROX. 1.30")

Nominal Pipe Size (inches)	O.D. Range (inches)	Catalog Number	Weight Each (lbs.)
4	4.36–5.66	CS12-0566-TAP	5.00
5	5.40-6.70	CS12-0670-TAP	5.25
6	6.43–7.73	CS12-0773-TAP	5.50
8	8.52–9.82	CS12-0982-TAP	6.00
10	10.65–11.95	CS12-1195-TAP	6.25
12	12.70–14.00 13.10–14.40	CS12-1400-TAP CS12-1440-TAP	6.75



#### STYLE CS22 • 8" WIDE DOUBLE BAND SADDLE

34", 1", 114,", 11/2" or 2"; C.C. or I.P.



Nominal Pipe Size (inches)	O.D. Range (inches)	Catalog Number	Weight Each (lbs.)
4	4.36–5.66	CS22-0566-TAP	9.75
5	5.40-6.70	CS22-0670-TAP	10.25
6	6.43–7.73	CS22-0773-TAP	10.75
8	8.52–9.82	CS22-0982-TAP	11.50
10	10.65–11.95	CS22-1195-TAP	12.00
12	12.70–14.00 13.10–14.40	CS22-1400-TAP CS22-1440-TAP	12.75
14	14.00–15.30 15.40–16.70	CS22–1530–TAP CS22–1670–TAP	13.25
16	16.20–17.50 17.90–19.20	CS22-1750-TAP CS22-1920-TAP	13.75
18	19.20–20.40	CS22-2040-TAP	14.50
20	21.50–22.80	CS22-2280-TAP	15.00
24	25.70–27.00	CS22-2700-TAP	18.50

**SHELL WIDTH 8" MAXI-STRETCH** (RANGE - APPROX. 1.30")

TO ORDER: Select desired catalog number and add tap size.

**EXAMPLE:** An 8" wide double band saddle for 6" pipe with a 2" IP (NPT) tap would be CS22-0773-2" IP.

**NOTE:** Other ranges and tap sizes available upon request.

#### **FEATURES**



Provides Full Hoop Support

· Eliminates Distortion of Pipe

#### • Superior Corrosion Resistance

Certified NSF/ANSI 61



#### **MATERIAL SPECIFICATIONS**

Body / Outlet: T304 SST

**Gasket**: SBR (EPDM available) -Triple O-ring surrounded by grid matt. Patents 6,173,967B1 & 6,588,767B2 Lugs / Washers / Washer Plate: T304 SST

Studs: 5/8 UNC, Rolled Thread; T304 SST Nuts: 5/8 UNC, Heavy Hex; 18-8/T304 SST,

Fluoropolymer Coated



SHELL WIDTH 5"

#### **STYLE CSC1 • 5" WIDE SINGLE BAND SADDLE**

34" or 1"; C.C. or I.P.

Nominal Pipe Size (inches)	O.D. Range (inches)	Catalog Number	Weight Each (lbs.)
2	2.30-2.40	CSC1-240-TAP	3.00
<b>2</b> ½	2.80-3.00	CSC1-300-TAP	3.00
3	3.35–3.65 3.70–4.00	CSC1-365-TAP CSC1-400-TAP	3.00
4	4.45–4.85 4.95–5.35	CSC1-485-TAP CSC1-535-TAP	3.25
5	5.35-5.80	CSC1-580-TAP	3.25
^	6.54-7.00	CSC1-700-TAP	0.50

CSC1-745-TAP

CSC1-908-TAP



**SHELL WIDTH 8"** 

#### **STYLE CSC2** • 8" WIDE SINGLE BAND SADDLE

6.99 - 7.45

8.62-9.08

34" or 1"; C.C. or I.P.

6

8



3.50

4.00

Nominal Pipe Size (inches)	O.D. Range (inches)	Catalog Number	Weight Each (lbs.)
3	3.35–3.65 3.70–4.00	CSC2-365-TAP CSC2-400-TAP	5.00
4	4.45–4.85 4.95–5.35	CSC2-485-TAP CSC2-535-TAP	5.50
5	5.36–5.80	CSC2-580-TAP	5.50
6	6.54–7.00 6.99–7.45	CSC2-700-TAP CSC2-745-TAP	6.00
8	8.62–9.08 9.21–9.67	CSC2-908-TAP CSC2-967-TAP	6.50
10	10.70–11.16 11.75–12.21	CSC2-1116-TAP CSC2-1221-TAP	7.25
12	12.74–13.21 14.00–14.47	CSC2-1321-TAP CSC2-1447-TAP	8.00

**TO ORDER:** Select desired catalog number and add tap size.

**EXAMPLE:** A 5" wide single band saddle clamp for 6" PVC with a 1" CC tap would be **CSC1-0700-1" CC**.

**NOTE:** Other ranges and tap sizes available upon request.

## DUCTILE IRON BODY SERVICE SADDLES WITH STAINLESS STEEL STRAPS

#### **MATERIAL SPECIFICATIONS**

Body: Ductile Iron - ASTM A536 (65-45-12) Coating: Fusion Bonded Epoxy

Strap: T304 SST (NSF/ANSI 61 compliant)

Studs: 5/8 UNC, Rolled Thread; 18-8 / T304 SST Gasket: EPDM

Washers: T304 SST

Nuts: 5/8 UNC, Heavy Hex; 18-8/T304 SST,

Fluoropolymer Coated



#### **STYLE CNS1 • SINGLE SST STRAP SERVICE SADDLE**



<sup>3</sup>/<sub>4</sub>", 1", 11/<sub>4</sub>", 11/<sub>2</sub> or 2"; C.C. or I.P.

Nominal	O.I	D. Range (inche	es)		Weight
Pipe Size (inches)*	A DI/IPS/CI	B CI/AC	C C900	Catalog Number	Each (lbs.)
2 †	2.35-2.56	_	_	CNS1-2A-TAP	3.25
3	3.50 (only)	_	-	CNS1-3A-TAP	3.50
4	4.50–5.15	4.80–5.40	4.80	CNS1-4(Range A,B,orC)-TAP	3.75
6	6.63-7.25	6.90-7.60	6.90	CNS1-6(Range A,B,orC)-TAP	4.00
8	8.63-9.30	9.05–9.65	9.05	CNS1-8(Range A,B,orC)-TAP	4.25
10	10.75–11.40	11.10–12.12	11.10	CNS1-10(Range A,B,orC)-TAP	5.00
12	12.75–13.50	13.20–14.40	13.20	CNS1-12(Range A,B,orC)-TAP	5.75

† - ONLY AVAILABLE WITH ¾" - 1¼" I.P./C.C. or 1½" I.P. TAPS



#### **STYLE CNS2** • DOUBLE SST STRAP SERVICE SADDLE



<sup>3</sup>/<sub>4</sub>", 1", 1<sup>1</sup>/<sub>4</sub>", 1<sup>1</sup>/<sub>2</sub> or 2"; C.C. or I.P.

Nominal	O.	D. Range (inche	es)		Weight
Pipe Size (inches)*	A DI/IPS/CI	B CI/AC	C C900	Catalog Number	Each (lbs.)
3	3.50 (only)	_	_	CNS2-3A-TAP	8.50
4	4.50–5.15	4.80–5.40	4.80	CNS2-4(Range A,B,orC)-TAP	9.50
6	6.63–7.25	6.90–7.60	6.90	CNS2-6(Range A,B,orC)-TAP	10.25
8	8.63-9.30	9.05–9.65	9.05	CNS2-8(Range A,B,orC)-TAP	11.50
10	10.75–11.40	11.10–12.12	11.10	CNS2-10(Range A,B,orC)-TAP	12.75
12	12.75–13.50	13.20–14.40	13.20	CNS2-12(Range A,B,orC)-TAP	13.25

**TO ORDER**: Select <u>Catalog Number</u> using <u>A</u>, <u>B</u>, or <u>C</u> range and add <u>Tap</u> the end of the <u>Catalog Number</u>.

**EXAMPLE**: An epoxy coated, double strap, ductile iron saddle for 6" D.I. pipe with a 1-1/2" C.C. tap

would be CNS2-6A-1.50CC.

## STYLE CDS-LD DUCTILE IRON BODY SERVICE SADDLES WITH STAINLESS STEEL STRAPS

#### **MATERIAL SPECIFICATIONS**

**Body**: Ductile Iron - ASTM A536 (65-45-12)

Straps: T304 SST

Studs: 5/8 UNC, Rolled Thread; 18-8/T304 SST

Washers: Flat-T304 SST / Hemispherical-Ductile Iron

Nuts: 5/8 UNC, Heavy Hex; 18-8/T304 SST Fluoropolymer Coated

#### **STYLE CDS-LD** • LARGE O.D. SERVICE SADDLES WITH S.S. STRAP

**Coating:** Fusion Bonded Epoxy

(NSF/ANSI 61 compliant)

Gasket: EPDM

3/4" or 2"; C.C. or I.P.



Nominal Pipe Size (Inches)	O.D. Range (Inches)	Catalog Number	Weight Each (lbs.)
14	14.70-15.70	CDS-LD-1570	17.0
14 & 16	15.80-17.26	CDS-LD-1726	17.1
16 & 18	17.30-19.00	CDS-LD-1900	17.3
18 & 20	19.05-20.20	CDS-LD-2020	17.5
	20.25-21.25	CDS-LD-2125	17.7
20	21.30-22.30	CDS-LD-2230	17.8
20	22.35-23.35	CDS-LD-2335	18.0
	22.90-23.90	CDS-LD-2390	18.1
	23.75-24.75	CDS-LD-2475	18.2
24	24.60-25.60	CDS-LD-2560	18.3
	25.65-26.50	CDS-LD-2650	18.4
27	26.55-27.55	CDS-LD-2755	18.7
21	27.60-28.55	CDS-LD-2855	19.0
30	29.60-30.50	CDS-LD-3050	19.3
30	31.60-32.50	CDS-LD-32.50	20.0

**TO ORDER**: Select <u>Catalog Number</u> using O.D. range and add <u>Tap</u> to the end of the <u>Catalog Number</u>.

**EXAMPLE**: An epoxy coated, single strap, large O.D. ductile iron saddle for 16" D.I. pipe with a 2" C.C. tap would be **CDS-LD-1900-2CC**.

#### **MATERIAL SPECIFICATIONS**

**Body**: Ductile Iron - ASTM A536 (65-45-12)

**U-Bolt**: 5/8 UNC, Rolled Thread; High Strength, Low Alloy Steel (with Corrosion Resistant Plating);

Washers: Mild Steel (with Corrosion

Resistant Plating)

Coating: Fusion Bonded Epoxy

(NSF/ANSI 61 compliant)

Gasket: EPDM

Nuts: 5/8 UNC, Heavy Hex;

ASTM A588/A242



Not Recommended for PVC Pipe, see CNS1

#### **STYLE CDS1 • SINGLE U-BOLT SERVICE SADDLE**

¾", 1", 1¼", 1½ or 2"; C.C. or I.P. TAPS

Nominal	O.D. Rang	je (inches)	Ostolov Novekov	Weight		
Pipe Size (inches)	A DI/IPS/CI	B CI/AC	Catalog Number	Each (lbs.)		
2 †	2.35–2.56	_	CDS1-2A-TAP	3.25		
3	3.50 (only)	_	CDS1-3A-TAP	3.75		
4	4.50–5.15	4.80-5.40	CDS1-4(Range A or B)-TAP	3.75		
6	6.63-7.25	6.90-7.60	CDS1-6(Range A or B)-TAP	4.00		
8	8.63-9.30	9.05–9.65	CDS1-8(Range A or B)-TAP	4.25		
10	10.75–11.40	11.10-12.12	CDS1-10(Range A or B)-TAP	5.00		
12	12.75-13.50	13.20-14.40	CDS1-12(Range A or B)-TAP	5.75		

† - AVAILABLE WITH ¾" - 1¼" C.C./I.P. or 1½" I.P. TAPS



Not Recommended for PVC Pipe, see CNS2

For larger pipe sizes see style CDS-LD on page 6

#### **STYLE CDS2** • DOUBLE U-BOLT SERVICE SADDLE

34", 1", 114", 11/2 or 2"; C.C. or I.P. TAPS

Nominal	O.D. Rang	ge (inches)	Catalog Number	Weight Each	
Pipe Size (inches)	A DI/IPS/CI	B CI/AC	Catalog Number	(lbs.)	
3	3.50 (only)	_	CDS2-3A-TAP	7.00	
4	4.50-5.15	4.80-5.40	CDS2-4(Range A or B)-TAP	7.25	
6	6.63-7.25	6.90–7.60	CDS2-6(Range A or B)-TAP	8.25	
8	8.63-9.30	9.05-9.65	CDS2-8(Range A or B)-TAP	9.75	
10	10.75–11.40	11.10–12.12	CDS2-10(Range A or B)-TAP	11.50	
12	12.75-13.50	13.20-14.40	CDS2-12(Range A or B)-TAP	13.25	

**TO ORDER:** Select desired catalog number and add tap size.

**EXAMPLE:** A double u-bolt ductile iron saddle for 8" D.I.P. with a p" IP tap would be **CDS2-8A-3/4IP**.

**NOTES: Not recommended for PVC Pipe.** 



## EPOXY COATED STEEL SERVICE SADDLES WITH STAINLESS STEEL BAND



Tap Sizes
2" through 4" IPS
Other sizes available
upon request.

#### **MATERIAL SPECIFICATIONS**

Body & Outlet: Fabricated Steel, ASTM A36

(8" WIDE)



(NSF/ANSI 61 compliant)

Band: T304 Stainless Steel

Studs: 5/8 UNC, Rolled Thread;

18-8/T304 Stainless Steel

Gaskets: EPDM

Nuts: 5/8 UNC, Heavy Hex; 18-8/T304 SST, Fluoropolymer coated

Nominal Pipe Size (inches)	Actual Pipe O.D.	Catalog Number X-Tap	Weight Each (lbs.)	Nominal Pipe Size (inches)	Actual Pipe O.D.	Catalog Number X-Tap	Weight Each (lbs.)
4	4.50 4.80	CFS-450-TAP CFS-480-TAP	15	16	16.00 17.40	CFS-1600-TAP CFS-1740-TAP	24
6	6.63 6.90	CFS-663-TAP CFS-690-TAP	16		17.80 18.00	CFS-1780-TAP CFS-1800-TAP	
8	8.63 9.05	CFS-863-TAP CFS-905-TAP	17	18	19.50 20.00	CFS-1950-TAP CFS-2000-TAP	25
10	10.75 11.10	CFS-1075-TAP CFS-1110-TAP	19	20	21.60 24.00	CFS-2160-TAP CFS-2400-TAP	26
	12.00	CFS-1200-TAP		24	25.80	CFS-2580-TAP	27
12	12.75 13.20	CFS-1275-TAP CFS-1320-TAP	21	30	30.00 32.00	CFS-3000-TAP CFS-3200-TAP	29
14	14.00 15.30	CFS-1400-TAP CFS-1530-TAP	22				

**TO ORDER**: Select <u>Catalog Number</u> using actual O.D. and add <u>Tap</u> to the end of the <u>Catalog Number</u>. **EXAMPLE**: A fabricated steel saddle for 6" D.I. pipe with a 3" I.P. tap would be **CFS-0690-3IP**. **NOTE**: Not recommended for use on PVC pipe.

### STYLE CFT-TC

## EPOXY COATED STEEL SERVICE SADDLE WITH THREADED OUTLET



Tap Sizes
2" through 4" IPS
Other sizes available
upon request.

#### **MATERIAL SPECIFICATIONS**

(8" WIDE)

**Body & Outlet**: Fabricated Steel, ASTM A36 Finish: Epoxy (NSF/ANSI 61 compliant)

Gaskets: EPDM

Bolts: 3/4 UNC, Rolled Thread; High

Strength, Low Alloy Steel

**Washers**: 3/4 Heavy; Mild Steel with Corrosion

Resistant Plating

**Nuts**: 3/4 UNC, Heavy Hex; ASTM A588/A242 (Optional: 18-8/T304 SST, Fluoropolymer coated)

Nominal Pipe Size (inches	Pipe O.D. (inches)	Catalog Number X-Tap	Weight Each (lbs.)	Nominal Pipe Size (inches)	Pipe O.D. (inches)	Catalog Number X-Tap	Weight Each (lbs.)
6	6.63	CFT-TO-663-TAP	24	18	19.41–20.00	CFT-TO-2000-TAP	78
	6.90	CFT-TO-690-TAP			20.93–21.57	CFT-TO-2157-TAP	
8	8.63	CFT-TO-863-TAP	32	20	21.51–22.15	CFT-TO-2215-TAP	88
	9.05	CFT-TO-905-TAP			23.46-24.16	CFT-TO-2416-TAP	
10	10.75	CFT-TO-1075-TAP	40	24	25.71-26.40	CFT-TO-2640-TAP	105
	11.10	CFT-TO-1110-TAP			28.14-28.84	CFT-TO-2884-TAP	
12	12.75	CFT-TO-1275-TAP	50	30	31.60-32.20	CFT-TO-3220-TAP	115
	13.20	CFT-TO-1320-TAP		36	38.10-38.75	CFT-TO-3875-TAP	140
14	14.50-15.00	CFT-TO-1500-TAP	60	42	44.10-44.70	CFT-TO-4470-TAP	160
	15.20-15.80	CFT-TO-1580-TAP		48	50.40-51.00	CFT-TO-5100-TAP	185
	16.30-16.70	CFT-TO-1670-TAP		54	56.60-57.25	CFT-TO-5725-TAP	210
16	17.30-17.87	CFT-TO-1787-TAP	68				
	18.62-19.20	CFT-TO-1920-TAP					

TO ORDER: Select <u>Catalog Number</u> using actual O.D. and add <u>Tap</u> to the end of the <u>Catalog Number</u>.

**EXAMPLE**: An epoxy coated, fabricated steel saddle for 8" D.I. pipe with a 2" I.P. tap would be **CFT-TO-0905-2IP**.

NOTE: Not recommended for use on PVC pipe.

## **SAMPLE SPECIFICATIONS**

#### SADDLES (ALL Stainless Steel) - STYLES - CS12, CS22

Service saddles shall be made from 18-8, Type 304 stainless steel, per ASTM A240. All saddles shall be of twopiece construction and shall be certified to NSF/ANSI 61. Cascade Style CS12 Service Saddles shall be a minimum of 5 inches wide for 4 inch through 12 inch pipe sizes with outlets of 3/4 inch or 1 inch, CC or IP (NPT) thread. The saddles shall have a single stud/receiver assembly per side. Cascade Style CS22 Service Saddles shall be 8 inches wide for 4 inch through 24 inch pipe sizes with outlets of 3/4 inch through 2 inch, CC or IP (NPT) thread. These saddles shall have a double stud/receiver assembly per side. Bolts and nuts shall be 5/8 UNC, 18-8 stainless steel. Nuts shall have a fluoropolymer coating to prevent galling. Washers shall be T304 and nylon. Outlets shall be T304 stainless steel, with either CC or IP (NPT) threads. Gaskets shall be virgin SBR - grade 30 (optional virgin EPDM) rubber. Gasket shall be a gridded mat, with tapered ends, with the outlet section having dual O-rings contacting the saddle body and multiple rings contacting the pipe. A stainless steel reinforcing ring shall be insert-molded within the outlet section to prevent gasket expansion under pressure. All weldments shall be fully, chemically passivated in accordance with ASTM A380. Service Saddles shall be Model CS12 or CS22 as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL or approved equal.

#### SADDLES (ALL Stainless Steel) - STYLES - CSC1, CSC2

Service saddles shall be made from 18-8, Type 304 stainless steel, per ASTM A240. All saddles shall be of one-piece construction and shall be certified to NSF/ANSI 61. Cascade Style CSC1 Service Saddles shall be a minimum of 5 inches wide for 2 inch through 8 inch pipe sizes with of 3/4 inch or 1 inch, CC or IP (NPT) thread. The saddles shall have a single stud/receiver assembly. Cascade Style CSC2 Service Saddles shall be 8 inches wide for 3 inch through 12 inch pipe sizes with outlets of 3/4 inch through 2 inch, CC or IP (NPT) thread. These saddles shall have a double stud/receiver assembly. Bolts and nuts shall be 5/8 UNC, 18-8 stainless steel. Nuts shall have a fluoropolymer coating to prevent galling. Washers shall be T304 and nylon. Outlets shall be T304 stainless steel, with either CC or IP (NPT) threads. Gaskets shall be virgin SBR - grade 30 (optional virgin EPDM) rubber. Gasket shall be a gridded mat, with tapered ends, with the outlet section having dual O rings contacting the saddle body and multiple rings contacting the pipe. A stainless steel reinforcing ring shall be insert-molded within the outlet section to prevent gasket expansion under pressure. All weldments shall be fully, chemically passivated in accordance with ASTM A380. Service Saddles shall be Model CSC1 or CSC2 as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL or approved equal.



#### **CASCADE WATERWORKS MANUFACTURING**

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## **SAMPLE SPECIFICATIONS**

#### SADDLES (Ductile Body with Stainless Steel Straps) - STYLES - CNS1, CNS2

Service saddles shall be Ductile Iron bodies per ASTM A536 with an NSF/ANSI 61 compliant epoxy coating and straps made from Type 304 stainless steel, per ASTM A240. Cascade Style CNS1 Service Saddles shall have a single strap, consisting of two, single stud bars and one band. Saddles for 2 inch pipe shall be tapped for an outlet from 3/4 inch through 1 1/4 inch, with CC or IP (NPT) thread, or 1 1/2 inch IP (NPT) thread. Saddles for 3 inch through 12 inch pipe shall be tapped for an outlet from 3/4 inch through 2 inch, with CC or IP (NPT) thread. Cascade Style CNS2 Service Saddles shall have two straps, each one consisting of two, single stud bars and one band. Saddles for 3 inch through 12 inch pipe shall be tapped for an outlet from 3/4 inch through 2 inch, with CC or IP (NPT) thread. Fastening hardware for saddles for 2 inch pipe shall be 1/2 UNC, while all other sizes shall be 5/8 UNC. Stud bars and washers shall be T304 stainless steel. Nuts shall be heavy-hex type, of 18-8 stainless steel and shall be coated with a fluoropolymer to prevent galling. Gaskets shall be virgin EPDM. The gasket shall contact the saddle body and the pipe. All weldments (welds and stainless steel surfaces) shall be fully, chemically passivated in accordance with ASTM A380. Service Saddles shall be Model CNS1 or CNS2 as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL.

#### SADDLES (Ductile Body with Stainless Steel Straps) - STYLES - CDS-LD

Service saddles shall be Ductile Iron bodies per ASTM A536 with an NSF/ANSI 61 certified epoxy coating and straps made from Type 304 stainless steel, per ASTM A240. **Cascade Style CDS-LD** Service Saddles shall have a single, wide strap, consisting of a band and one double stud bar at each end of the strap. Saddles for 14 inch pipe and larger shall be tapped for an outlet from 3/4 inch through 2 inch, with CC or IP (NPT) thread. Stud bars and flat washers and nuts shall be 5/8 UNC. Stud bars and flat washers shall be T304 stainless steel. Nuts shall be heavy-hex type, of 18-8 stainless steel and shall be coated with a fluoropolymer to prevent galling. Hemispherical washers, made of Ductile Iron with an NSF/ANSI 61 certified epoxy coating, shall be used to provide positive engagement of the strap to the saddle. Gaskets shall be virgin EPDM. The gasket shall contact the saddle body and the pipe. **All weldments (welds and stainless steel surfaces) shall be fully, chemically passivated in accordance with ASTM A380**. Service Saddles shall be Model CDS-LD as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL.

#### SADDLES (Ductile Body with Steel Bales) - STYLES - CDS1, CDS2

Service saddles shall be Ductile Iron bodies per ASTM A536 with an NSF/ ANSI 61 compliant epoxy coating, and U-bolts made from ASTM A36 steel with corrosion resistant plating. Cascade Style CDS1 Service Saddles shall have a single U-bolt. Saddles for 2 inch pipe shall be tapped for an outlet from 3/4 inch through 1-1/4 inch, with CC or IP (NPT) thread, or 1-1/2 inch IP (NPT) thread. Saddles for 3 inch through 12 inch pipe shall be tapped for an outlet from 3/4 inch through 2 inch, with CC or IP (NPT) thread. Cascade Style CDS2 Service Saddles shall have two U-bolts. Saddles for 3 inch through 12 inch pipe shall be tapped for an outlet from 3/4 inch through 2 inch, with CC or IP (NPT) thread. Saddles for 2 inch pipe shall be 1/2 UNC, with all other sizes being 5/8 UNC. U-bolt and washers shall be mild steel with corrosion resistant plating. Nuts shall be heavy-hex type, of ASTM A588/A242 (Corten type) steel. Gaskets shall be virgin EPDM. The gasket shall contact the saddle body and the pipe. Service Saddles shall be Model CDS1 or CDS2 as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL.

#### SERVICE SADDLE (Fabricated Steel w/ Stainless Steel Band) - STYLE - CFS

Service Saddle shall be made from a top shell section and a back shell section. The back shell section shall be T304 stainless steel, with a minimum thickness of 14 gauge with bolt bars TIG welded to the shell. Each bolt bar shall be T304 stainless steel of a minimum thickness 10 gauge. The top shell section (outlet side) shall be ASTM A285 Grade C or ASTM A36 steel, with a minimum thickness of 3/16 inch for pipe diameters between 6.00" thru 12.75", and a minimum thickness of 3/8 inch thick for pipe diameters over 12.75", and have 3/8" thick mounting ears MIG welded to the shell. The outlet shall be ASTM A285 Grade C or ASTM A36 steel and attached to the Top shell with an outside seam MIG weld. The top shell shall have a virgin EPDM, broad throat outlet gasket to assure a positive seal. The Back shell section shall be attached to the Top shell section using a fluoropolymer coated, 18-8, T304 stainless steel heavy hex nuts. The bolt bars and washers shall be T304 stainless steel and shall be 5/8 UNC thread. All stainless steel weldments shall be fully, chemically passivated in accordance with ASTM A380 and all carbon steel weldments on the saddle body to be finished with NSF/ANSI 61 compliant epoxy coating. The tapping saddle shall be CFS series as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL.

### TAPPING SADDLE w/ THREADED OUTLET (Fabricated Carbon Steel) - STYLE - CFT-TO

Tapping Saddle shall be made from a top shell section and a back shell section. The back shell section shall be ASTM A285 Grade C or ASTMA 36 steel, with a minimum thickness of 3/16 inch for pipe diameters between 4.50" and 9.05", and a minimum thickness of 3/8 inch thick for pipe diameters over 9.05", and shall have lug bars MIG welded to the shell. Each lug bar shall be ASTM A285 Grade C or ASTM A36 steel of a minimum thickness of 1/4 inch, and are MIG welded along the top and bottom edges. The top shell section (outlet side) shall be ASTM A285 Grade C or ASTM A36 steel, with a minimum thickness of 3/16 inch for pipe diameters between 4.50" and 9.05", and a minimum thickness of 3/8 inch thick for pipe diameters over 9.05", and shall have lug bars MIG welded to the shell, similar to the back shell. The outlet shall be ASTM A285 Grade C or ASTM A36 steel and attached to the Top shell with an outside seam MIG weld. The top shell shall have a virgin EPDM, broad throat outlet gasket to assure a positive seal. The Back shell section shall be attached to the Top shell section using heavy hex nuts made of ASTM A588/A242 (Corten type) steel (or optional fluoropolymer coated, 18-8 stainless steel). The washers shall be ASTM A588/A242 (Corten type) steel (or optional T304 stainless steel). The bolts shall be made of low alloy steel meeting ASTM A588/A242 and AWWA C111 ANSI A21.11 (or an optional T304 stainless steel) and shall be 3/4 UNC threaded, oval-neck track bolts. All metal surfaces on the saddle body to be finished with NSF/ANSI 61 compliant epoxy coating. The tapping saddle shall be CFT-TO series as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL.



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### **WARRANTY**

**Cascade Waterworks** Mfg. Co. warrants its product(s) for one year from the date of shipment to be free of defects in material or workmanship. Cascade will repair or replace this product if found to be defective within the warranty period, provided that the buyer submits his claim in writing and delivers the original claimed defective product in its entirety, freight prepaid to Cascade Waterworks Mfg. Co., 1213 Badger Street, Yorkville, IL, 60560 for inspection within 30 days. Any written notice and/or product shall be sent directly to Cascade unless otherwise instructed. Sending these to a manufacturer's representative or any other agent prior to **Cascade's** review will void all warranties. Cascade will not be liable nor responsible for any loss, damage or injury to any persons or property directly or indirectly arising from the use or inability to use this product. The user shall determine the suitability of the product for its intended use prior to any application and said user assumes all risks in connection with the use of this product. No claims for labor or damage will be allowed. The foregoing warranties and remedies are exclusive and in lieu of all others, whether written, oral, or implied. Buyer must advise Cascade within 30 days of discovery of the alleged defect or the claim will be barred. Upon the products' purchase from Cascade Waterworks Mfg. Co., or any of its Agents, the purchaser agrees to all of the above terms of warranty.





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Cascade Waterworks Mfg. continually improves, modifies, and updates our product literature. It is important that before any installation occurs that you refer to Cascade's latest brochures for the appropriate product and its latest application recommendations.