

# JABO SUPPLY SADDLES





**5 LOCATIONS**

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**BEAVER, WV (BECKLEY)**  
227 C&O Shop Road 25813  
(304-252-0000

**SINCE 1964 SERVICE IS MORE THAN A PROMISE**

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PICTURE INDEX

PICTURE INDEX SADDLES

**BRASS**





HINGE BRASS SADDLE	HINGE BRASS SADDLE	TWO BOLT BRASS SADDLE	TWO BOLT BRASS SADDLE
C900 PIPE CC OUTLET (4"-8")	C900 PIPE NPT OUTLET (4"-8")	C900 PIPE CC OUTLET 10"-12"	C900 PIPE NPT OUTLET 10"-12"
			
PAGE 9	PAGE 9	PAGE 9	PAGE 9
HINGE BRASS SADDLE	HINGE BRASS SADDLE	TWO BOLT BRASS SADDLE	TWO BOLT BRASS SADDLE
PVC IPS PIPE CC OUTLET (4"-8")	PVC IPS PIPE NPT OUTLET (4"-8")	PVC IPS PIPE CC OUTLET 10"-12"	PVC IPS PIPE NPT OUTLET 10"-12"
			
CC TAP	NPT TAP	CC TAP	NPT TAP
PAGE 10	PAGE 10	PAGE 10	PAGE 10

**BALE**

TWO STRAP BALE	TWO STRAP BALE	TWO STRAP BALE	TWO STRAP BALE
313 SMITH BLAIR	313 SMITH BLAIR	402 JCM	402 JCM
DI, CAST, STEEL cc OUTLET	DI, CAST, STEEL NPT OUTLET	DI, CAST, STEEL cc OUTLET	DI, CAST, STEEL NPT OUTLET
			
CC TAP	NPT TAP	CC TAP	NPT TAP
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PICTURE INDEX SADDLES





TWO STRAP SS

TWO STRAP SS	TWO STRAP SS	TWO STRAP SS	TWO STRAP SS
<b>317 SMITH BLAIR</b>	<b>317 SMITH BLAIR</b>	<b>406 JCM</b>	<b>406 JCM</b>
STEEL, DI, CAST, AC, HDPE CC OUTLET	STEEL, DI, CAST, AC, HDPE NPT OUTLET	STEEL, DI, CAST, AC, HDPE CC OUTLET	STEEL, DI, CAST, AC, HDPE NPT OUTLET
			
<b>CC TAP</b>	<b>NPT TAP</b>	<b>CC TAP</b>	<b>NPT TAP</b>
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WIDE RANGE SERVICE SADDLES & REPAIR CLAMP WITH OUTLET

T3 WIDE RANGE	WIDE RANGE RC W/OUTLET	 	
SERVICE SADDLE CC OUTLET	QUICK CAM WITH OUTLET		
			
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STANDARD RANGE REPAIR CLAMPS WITH OUTLET

238 OUTLET CLAMP	238 OUTLET CLAMP	264 OUTLET CLAMP	264 OUTLET CLAMP
<i>CC OUTLET</i>	NPT OUTLET	CC OUTLET	NPT OUTLET
			
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# OD CHART

## OD PIPE CHART

FOR RECOMMENDATION ONLY

### STEEL PIPE & STEEL SIZE PVC

SIZE	STD	IPS	SIZE	STD
INCHES	(SCH 40)		INCHES	(SCH 40)
1/2	0.84		4	4.50
3/4	1.05		4-1/2	5.00
1	1.32		5	5.56
1-1/4	1.66		6	6.63
1-1/2	1.90		8	8.63
2	2.38		9	9.63
2-1/2	2.88		10	10.75
3	3.50		12	12.75
3-1/2	4.00	14	14.00	

**STD (SCH 40) STEEL PIPE 14" ABOVE THE NOMINAL SIZE IS THE O.D.) (16=16.00 OD ,,,ETC**

### COPPER TUBING

SIZE	PIPE O.D.
INCHES	(INCHES)
3/8	0.56
1/2	0.63
5/8	0.75
3/4	0.88
1	1.13
1-1/4	1.38
1-1/2	1.63
2	2.13
2-1/2	2.63
3	3.13
4	4.13
5	5.13
6	6.13

### DI, C900, CAST IRON

DI, C900, CAST IRON	
SIZE	PIPE O.D.
INCHES	INCHES
4	4.80
6	6.90
8	9.05
10	11.10
12	13.20
14	15.30

### ASBESTOS PIPE 4-16"

SIZE	CLASS	AC TRANITE		AC SIMPLEX	
		MACHINE	RB	MACHINE	RB
		END	MIN-MAX	END	MIN-MAX
4	100	4.64	4.79-5.14	4.70	4.95
	150	4.81	4.97-5.27	4.85	5.10
	200	4.81	5.22-5.77	5.20	5.45
6	100	6.91	7.05-7.40	6.76	7.01
	150	6.91	7.07-7.37	6.95	7.20
	200	6.91	7.26-7.56	7.50	7.75
8	100	9.11	9.22-9.57	8.80	9.13
	150	9.11	9.27-9.57	9.15	9.40
	200	9.11	9.39-9.74	9.76	10.01
10	100	11.24	11.42-11.77	11.18	11.43
	150	11.66	11.82-12.12	11.70	11.95
	200	11.66	11.77-12.12	12.20	12.45
12	100	13.44	13.69-14.04	13.36	13.61
	150	13.92	14.08-14.38	13.96	14.21
	200	13.92	14.03-14.38	14.46	14.72
14	100	15.07	15.40-15.80	15.56	15.94
	150	16.22	16.38-16.73	16.26	16.64
	200	16.22	16.48-16.88	16.88	17.26
16	100	17.15	17.54-17.94	17.76	18.14
	150	18.46	18.62-18.97	18.50	18.88
	200	18.46	18.79-19.19	19.30	19.68

### PIT CAST

PIT CAST PIPE ONLY			
SIZE	NOT CURRENT MANUFACTURE OR STD		
INCHES	CLASS A	CLASS B	CLASS C / D
3	3.8	3.96	3.96
4	4.8	5.00	5.00
6	6.9	7.10	7.10
8	9.05	9.05	9.30
10	11.1	11.10	11.40
12	13.2	13.20	13.50
14	15.3	15.30	15.65
16	17.4	17.40	17.80

### ASBESTOS PIPE 18"

CLASS	AC TRANITE		AC SIMPLEX	
	ME	RB MIN-MAX	ME	RB MIN-MAX
100	19.90	20.44	NA	NA
150	20.94	21.20	NA	NA
200	NA	NA	NA	NA

ASBESTOS PIPE 20"				
100	21.12	22.5	NA	NA
150	23.28	23.54	NA	NA
200	NA	NA	NA	NA

JABO SUPPLY DOES NOT WARRANTY OR GUARANTEE MANUFACTURED PIPE SIZES



## SADDLE APPLICATION GUIDE

## REFERENCE GUIDE FOR MOST COMMONLY USED SADDLES

BRASS
CAMBRIDGE BRASS HINGE
CAMBRIDGE BRASS 2 BOLT
TYPES OF PIPE
C900-SPECIFIC FOR C900
IPS PVC SPECIFIC FOR IPS

BALE SADDLES
SMITH BLAIR 313
JCM 402
TYPES OF PIPE
Steel
Ductile Iron
Cast Iron

DOUBLE STAINLESS STEEL STRAP
SMITH BLAIR 317
JCM 406
TYPES OF PIPE
Steel
Ductile Iron
Cast Iron
Asbestos Cement
PVC
HDPE "Needs Spring Washer"

238 REPAIR CLAMP W/OUTLET
Steel
Ductile Iron
Cast Iron
Asbestos Cement
PVC
HDPE "Needs Spring Washer"

T3 SERVICE SADDLE
Steel
Ductile Iron
Cast Iron
Asbestos Cement
PVC
HDPE "Needs Spring Washer"

264 REPAIR CLAMP W/OUTLET
Steel
Ductile Iron
Cast Iron
Asbestos Cement
PVC
HDPE "Needs Spring Washer"

## CROSS REFERENCE

Service Saddles	Smith-Blair	Dresser	Ford	Romac	JCM	PowerSeal
Single Carbon Steel Bale - Iron Body	311	291	F101	(101U),101NU	(401),407	3411DI
Double Carbon Steel Bale - Iron Body	313	291	F202	(202U),202NU	(402),408	3413
Single Stainless Steel Strap - Iron Body	315	-	FC101,FS101	(101S),101NU	(403),405	3415
Double Stainless Steel Straps - Iron Body	317	-	FCD202	(202S),202NS	(404),406	3417DI
Wide Stainless Steel Strap - Bronze Body	325-000	-	202BS	-	-	(3409),(3407)
Double Stainless Steel Straps - Bronze Body	325-100	-	202BSD	202BS	-	3409
Repair, Double Carbon Steel Bale - Iron Body	331	-	FR202	-	-	-
Double Stainless Steel Straps, Large Tap - Iron Body O.D specific for PVC and Steel Pipe	357	-	(FS202),(F202)	-	-	-
Double Carbon Steel Bale - Iron Body For Concrete Cylinder Pipe	362	-	-	-	425	-
Triple Carbon Steel Bale - Iron Body For Large Diameter Pipe	366	-	-	-	(418)	-
Single Stainless Steel Stud - All Stainless	371	-	FS303,FS313	304	-	3411AS
Double Stainless Steel Stud - All Stainless	372	-	FS303,FS313	306	502	3412AS
Wide Stainless Steel Strap - Iron Body O.D. Specific for PVC or Ductile Iron	397	-	FC202	-	-	3417SW

# BRASS SADDLES

## BRASS SADDLES C900

PIPE APPLICATION C900 ONLY

**Hinged Service Saddles are designed to give a positive water-tight seal with full support to the PVC pipe, without cracking or distorting the pipe. The pressure capabilities equal, but do not exceed the working pressure rating of the PVC pipe up to 200 PSIG. Installation instructions are provided with saddle. Please read and follow all instructions to ensure long lasting performance.**

### FITS C900 PIPE

#### BRASS SADDLE CC OUTLET



JABO#	PIPE SIZE	CC OUTLET
031-23796	4"	3/4"
031-23800		1"
*		1-1/2"
*		2"
031-23864	6"	3/4"
031-23868		1"
*		1-1/2"
		2"
031-23876	8"	2"
031-23928		3/4"
031-23932		1"
*		1-1/2"
*	2"	
031-23992	10"	3/4"
031-23996		1"
*		1-1/2"
*		2"
031-24056	12"	3/4"
031-24060		1"
*		1-1/2"
*		2"

**\*NON STOCK CALL JABO SUPPLY**

**4-8" HINGE SADDLE 10-12" 2-BOLT**

### FITS C900 PIPE

#### BRASS SADDLE NPT OUTLET



JABO#	PIPE SIZE	NPT OUTLET
031-23812	4"	3/4"
031-23816		1"
*		1-1/2"
031-23824		2"
031-23880	6"	3/4"
031-23884		1"
*		1-1/2"
		2"
031-23892	8"	2"
031-23944		3/4"
031-23948		1"
*		1-1/2"
031-23956	10"	2"
		3/4"
031-24012		1"
*		1-1/2"
031-24020	12"	2"
031-24072		3/4"
031-24076		1"
*		1-1/2"
031-24084	2"	

**\*NON STOCK CALL JABO SUPPLY**

**4-8" HINGE SADDLE 10-12" 2-BOLT**

# BRASS SADDLES

## BRASS SADDLES PVC IPS PIPE

### PIPE APPLICATION PVC IPS ONLY

Hinged Service Saddles are designed to give a positive water-tight seal with full support to the PVC pipe, without cracking or distorting the pipe. The pressure capabilities equal, but do not exceed the working pressure rating of the PVC pipe up to 200 PSIG. Installation instructions are provided with saddle. Please read and follow all instructions to ensure long lasting performance.

### FITS PVC IPS PIPE

#### BRASS SADDLE CC OUTLET



JABO#	PIPE SIZE	CC OUTLET
031-23716	2"	3/4"
031-23720	2"	1"
*	2-1/2"	3/4"
*	2-1/2"	1"
031-23748	3"	3/4"
031-23752	3"	1"
031-23764	4"	3/4"
031-23768		1"
*		1-1/2"
*		2"
031-23828	6"	3/4"
031-23832		1"
*		1-1/2"
*		2"
031-23896	8"	3/4"
031-23900		1"
*		1-1/2"
*		2"
031-23960	10"	3/4"
031-23964		1"
*		1-1/2"
*		2"
*	12"	3/4"
*		1"
*		1-1/2"
*		2"

**\*NON STOCK CALL JABO SUPPLY**

**4-8" HINGE SADDLE 10-12" 2-BOLT**

PVC IPS

CC OUTLET

### FITS PVC IPS PIPE

#### BRASS SADDLE NPT OUTLET



JABO#	PIPE SIZE	NPT OUTLET
031-23724	2"	3/4"
031-23728	2"	1"
*	2-1/2"	3/4"
031-23744	2-1/2"	1"
031-23756	3"	3/4"
031-23760	3"	1"
031-23762	3"	2"
031-23780	4"	3/4"
031-23784		1"
*		1-1/2"
031-23792		2"
031-23844	6"	3/4"
031-23848		1"
*		1-1/2"
031-23856		2"
031-23912	8"	3/4"
031-23916		1"
*		1-1/2"
031-23924		2"
031-23976	10"	3/4"
031-23980		1"
*		1-1/2"
031-23988		2"
031-24040	12"	3/4"
031-24044		1"
*		1-1/2"
031-24032		2"

**\*NON STOCK CALL JABO SUPPLY**

**4 8" HINE SADDLE 10-12" 2-BOLT**

PVC IPS

NPT OUTLET

## BALE SADDLES



# Service Saddle

## Double Bale

# 313

### IMPORTANT LINKS

Click appropriate words to go to:

[Standard Limited Warranty](#)  
[Sales Terms & Conditions](#)  
[Freight Policy](#)  
[Returns Policy](#)  
[Corrosion & Product Selection Notice](#)



**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

## BALE SADDLES

## SMITH BLAIR 313 SERVICE SADDLE DOUBLE BALE

IPS STEEL / DUCTILE/ CAST



CC / 5/8"-2-1/2" TAPS

SIZE (INCHES)	OD RANGE (INCHES)	CC OUTLET						
		5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
1-1/4-1-1/2"	1.61-1.92	*	*	*	NA	NA	NA	NA
2"	2.35-2.56	*	073-12826	073-12842	*	NA	NA	NA
2-/14-2-1/2	2.44-2.91	*	*	*	NA	NA	NA	NA
3	2.97-3.54	*	073-12906	073-12922	*	*	NA	NA
3-4	3.74-4.13	*	073-12966	073-12982	*	*	*	NA
4	4.40-4.50	*	*	*	*	*	*	NA
	4.40-4.80	*	073-13102	073-13118	*	*	*	NA
	4.74-5.14	*	073-13178	073-13190	*	*	*	NA
4-5	5.00-5.63	*	*	*	*	*	*	NA
6	5.94-6.70	*	073-13406	073-13422	*	*	*	NA
	5.94-6.90	*	*	*	*	*	*	NA
	6.84-7.60	*	073-13494	*	*	*	*	NA
6-8	7.69-8.72	*	*	*	*	*	*	NA
	7.69-9.05	*	*	*	*	*	*	NA
8-10	8.54-10.10	*	073-13710	073-13726	*	*	*	NA
10	10.75-11.10	*	*	*	*	*	*	NA
	10.64-12.12	*	073-13882	073-13898	*	*	*	NA
12	12.75-13.20	*	*	*	*	*	*	NA
12-14	12.62-14.32	*	073-14046	*	*	*	*	NA
	14.73-15.65	*	*	*	*	*	*	NA
14-16	15.95-17.25	*	*	*	*	*	*	NA
16	17.25-17.80	NA	NA	NA	NA	NA	NA	NA
16-18	17.40-18.88	NA	NA	NA	NA	NA	NA	NA
**18	19.38-19.68	NA	NA	NA	NA	NA	NA	NA
**20	21.55-21.65	NA	NA	NA	NA	NA	NA	NA
**24	25.75-25.85	NA	NA	NA	NA	NA	NA	NA

QUICK REFERENCE PIPE CHART			
OD	IPS	DI/C900	PIT CAST
3"	3.5		3.8
4"	4.5	4.8	4.8
6"	6.63	6.9	6.9
8"	8.63	9.05	9.05
10"	10.75	11.1	11.1
12"	12.75	13.2	13.2
14"	14	15.3	15.3

**\*NON STOCK CALL JABO SUPPLY**  
**\*\*FABRICATED STRAPS , EPOXY COATED**  
**CARBON STEEL**

## BALE SADDLES

## SMITH BLAIR 313 SERVICE SADDLE DOUBLE BALE

IPS STEEL / DUCTILE/ CAST



## NPT 3/4"-2-1/2" TAPS

SIZE	OD RANGE	NPT NPT OUTLET						
(INCHES)	(INCHES)	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
1-1/4-1-1/2"	1.61-1.92	N/A	*	*	*	*	NA	NA
2"	2.35-2.56	N/A	*	073-12834	*	*	NA	NA
2-1/4-2-1/2	2.44-2.91	N/A	*	*	*	*	*	NA
3	2.97-3.54	N/A	*	073-12914	*	*	*	*
3-4	3.74-4.13	N/A	*	*	*	*	*	*
4	4.40-4.50	N/A	*	073-13094	073-13110	073-13138	073-13150	*
4	4.40-4.80	N/A	*	*	*	*	*	*
4-5	5.00-5.63	N/A	*	*	*	*	*	*
6	5.94-6.70	N/A	*	073-13414	*	*	073-13454	*
6	5.94-6.90	N/A	*	*	*	*	*	*
6	6.84-7.60	N/A	*	*	*	*	*	*
6-8	7.69-8.72	N/A	*	*	*	*	*	*
6-8	7.69-9.05	N/A	073-13626	*	*	*	073-13686	*
8-10	8.54-10.10	N/A	*	*	*	*		*
10	10.75-11.10	N/A	*	*	*	073-13838	073-13850	*
10-12	10.64-12.12	N/A	*	*	*	*	*	*
12	12.75-13.20	N/A	*	*	*	*	073-14014	*
12-14	12.62-14.32	N/A	*	*	*	*	*	*
12-14	14.73-15.65	N/A	*	*	*	*	*	*
14-16	15.95-17.25	N/A	*	*	*	*	*	*
16	17.25-17.80	N/A	*	*	*	*	*	*
16-18	17.40-18.88	N/A	*	*	*	*	*	*
**18	19.38-19.68	N/A	*	*	*	*	*	*
**20	21.55-21.65	N/A	*	*	*	*	*	*
**24	25.75-25.85	N/A	*	*	*	*	*	*

QUICK REFERENCE PIPE CHART			
OD	IPS	DI/C900	PIT CAST
3"	3.5		3.8
4"	4.5	4.8	4.8
6"	6.63	6.9	6.9
8"	8.63	9.05	9.05
10"	10.75	11.1	11.1
12"	12.75	13.2	13.2
14"	14	15.3	15.3

\*NON STOCK CALL JABO SUPPLY  
 \*\*FABRICATED STRAPS , EPOXY COATED  
 CARBON STEEL

## BALE SADDLES

**SMITH BLAIR 313 SERVICE SADDLE DOUBLE BALE**

IPS STEEL / DUCTILE/ CAST

**NPT 3" AND 4" TAPS**

SIZE (INCHES)	OD RANGE (INCHES)	NPT NPT OUTLET	
		3"	4"
6	5.94-6.90	*	NA
6	6.84-7.60	*	*
8-10	8.54-10.10	*	*
10-12	11.30-12.12	*	*
12-14	13.40-14.32	*	*
12-14	14.73-15.65	*	*
14-16	15.98-16.59	*	*
16	17.25-17.80	*	*
16-18	17.81-18.88	*	*
**18	19.38-19.68	*	*

\* NON STOCK CALL JABO SUPPLY

\*\*FABRUCATED STRAPS , EPOXY COATED  
CARBON STEEL

### JCM 402 Double Strap Service Saddle

Service saddles for pipe sizes 2" through 12" shall have a wrap around design with ductile iron body coated with a shop primer, a broad pressure activated gasket molded of virgin rubber and two corrosion resistant, forged AISI C-1018 steel straps, zinc plated with dichromate seal. The gasket shall be permanently bonded into a cavity in the saddle body, which provides internal as well as external gasket retention. Service saddles shall be JCM 402 or approved equal.

Service saddle for pipe sizes 14" through 24" shall have two 2-1/2" wide fabricated steel straps, coated for corrosion resistance, in lieu of the forged steel straps to provide increased stability on service connections, increased corrosion resistance and increased strength for added safety factor on larger sizes of pipe.

Service Saddles shall be JCM 402 or approved equal.

JCM 400 Series Service Saddles meet or exceed ANSI/AWWA C-800 Standard for Underground Service Line Valve and Fittings.

JCM 400 Series Service Saddles are ANSI/NSF Standard 61, Annex G and ANSI/NSF 372 Certified.



JCM 402 Service Saddle  
Outlet Sizes 3/4" – 1"



JCM 402 Service Saddle  
Outlet Sizes 1-1/4" – 2-1/2"

*This typical specification, provided by JCM Industries, is a proposed guideline for use by specifying agencies to ensure significant design and material features of this product are included within the agencies' individual specifications.*

## JCM 402 Double Strap Service Saddle

JCM Service Saddles are constructed of ductile iron with shop primer coating and have corrosion resistant straps. These saddles meet or exceed ANSI/AWWA C-800 Standards for service line fittings.

**Body Casting:** Wrap around design of Ductile Iron, ASTM A-536 annealed to 60-40-18. Body has a gasket cavity, which provides internal as well as external gasket retention.

**Gasket:** Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Molded virgin rubber with a pressure activated hydromechanical design. Gasket is bonded into a cavity for internal and external retention. Gasket temperature range -40°F to 212°F (-40°C – 100°C) Gasket suitable for water, salt solutions, mild acids, bases, and sewage. Optional EPDM gasket available.

**Straps:** Nominal sizes 2" through 12" have corrosion resistant, forged AISI C-1018 steel straps, zinc plated with dichromate seal. Nominal sizes 14" through 24" have two (2) 2-1/2" wide fabricated steel straps for additional stability and strength coated for corrosion resistance.

**Coating:** Casting is coated with shop primer coating.

**Pressure Rating:** Working pressure is 250 PSI hydrostatic. Contact factory if higher working pressure is required.

**Sizes:** See Catalog.

**Standards:** JCM 400 Series Service Saddles meet or exceed ANSI/AWWA C-800 Standard for Underground Service Line Valve and Fittings.

JCM 400 Series Service Saddles are ANSI/NSF Standard 61, Annex G and ANSI/NSF 372 Certified.

JCM Industries endorses observance of Uni-Bell Handbook of PVC Pipe/AWWA Manual M23 Design and Installation of PVC Pipe and endorses the recommendations they make for tapping PVC Pipe. Service Fittings are available to adhere to those recommendations.

*Information provided based on current data available. Contact JCM Industries Technical Services for modifications or changes.*

## BALE SADDLES

## JCM 402 SERVICE SADDLE DOUBLE BALE

IPS STEEL / DUCTILE/ CAST



## CC 3/4"-2-1/2" TAPS

SIZE (INCHES)	OD RANGE (INCHES)	CC OUTLET						
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
2"	2.35-2.63	NA	*	*	NA	NA	NA	NA
2-1/2	2.70-3.13	NA	*	*	NA	NA	NA	NA
3	3.25-3.50	NA	*	*	*	*	NA	NA
3-4	3.80-4.13	NA	*	*	*	*	NA	NA
4	4.25-4.50	NA	*	*	*	*	*	NA
	4.50-4.80	NA	*	*	*	*	*	NA
	4.74-5.45	NA	*	*	*	*	*	NA
5	5.50-5.56	NA	*	*	*	*	*	NA
6	6.50-6.63	NA	*	*	*	*	*	NA
	6.50-6.63	NA	*	*	*	*	*	NA
	6.63-6.90	NA	*	*	*	*	*	NA
	6.84-7.60	NA	*	*	*	*	*	NA
8	8.50-8.63	NA	*	*	*	*	*	NA
	8.63-9.05	NA	*	*	*	*	*	NA
	8.99-9.79	NA	*	*	*	*	*	NA
10	10.60-10.75	NA	*	*	*	*	*	NA
	10.75-11.10	NA	*	*	*	*	*	NA
	11.10-11.40	NA	*	*	*	*	*	NA
	11.0-12.25	NA	*	*	*	*	*	NA
12	12.75-13.20	NA	*	*	*	*	*	NA
	12.75-13.50	NA	*	*	*	*	*	NA
	13.10-14.38	NA	*	*	*	*	*	NA
12-14	14.0-15.20	NA	*	*	*	*	*	NA
14	c-905-15.30	NA	*	*	*	*	*	NA
14-16	15.20-16.60	NA	*	*	*	*	*	NA
16	C905-17.40	NA	*	*	*	*	*	NA
16-18	17.30-18.88	NA	*	*	*	*	*	NA
18	C905-19.50	NA	*	*	*	*	*	NA
18-20	19.00-20.50	NA	*	*	*	*	*	NA
18.20	20.50-21.50	NA	*	*	*	*	*	NA
20	C905-21.60	NA	*	*	*	*	*	NA
	21.35-22.60	NA	*	*	*	*	*	NA
	22.50-23.70	NA	*	*	*	*	*	NA
24	23.75-25.25	NA	*	*	*	*	*	NA
	C905-25.80	NA	*	*	*	*	*	NA
	25.50-26.50	NA	*	*	*	*	*	NA

\*NON STOCK CALL JABO SUPPLY

## BALE SADDLES

## JCM 402 SERVICE SADDLE DOUBLE BALE

IPS STEEL / DUCTILE/ CAST

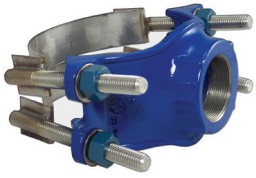


## NPT 1/2"-2-1/2" TAPS

SIZE (INCHES)	OD RANGE (INCHES)	NPT NPT OUTLET						
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
2"	2.35-2.63	*	*	*	NA	NA	NA	NA
2-1/2	2.70-3.13	*	*	*	NA	NA	NA	NA
3	3.25-3.50	*	*	*	*	*	*	NA
3-4	3.80-4.13	*	*	*	*	*	*	NA
4	4.25-4.50	*	*	*	*	*	*	*
	4.50-4.80	*	071-01340	071-01320	*	071-01400	071-01420	*
	4.74-5.45	*	*	*	*	*	*	*
5	5.50-5.56	*	*	*	*	*	*	*
6	6.50-6.63	*	*	*	*	*	*	*
	6.50-6.63	*	*	*	*	*	*	*
	6.63-6.90	*	*	071-01480	*	*	071-01500	*
	6.84-7.60	*	*	*	*	*	*	*
8	8.50-8.63	*	*	*	*	*	*	*
	8.63-9.05	*	*	*	*	*	071-01540	*
	8.99-9.79	*	*	*	*	*	*	*
10	10.60-10.75	*	*	*	*	*	*	*
	10.75-11.10	*	*	*	*	071-01570	071-01580	*
	11.10-11.40	*	*	*	*	*	*	*
	11.0-12.25	*	*	*	*	*	*	*
12	12.75-13.20	*	*	*	*	*	*	*
	12.75-13.50	*	*	*	*	*	*	*
	13.10-14.38	*	*	*	*	*	*	*
12-14	14.0-15.20	*	*	*	*	*	*	*
14	c-905-15.30	*	*	*	*	*	*	*
14-16	15.20-16.60	*	*	*	*	*	*	*
16	C905-17.40	*	*	*	*	*	*	*
16-18	17.30-18.88	*	*	*	*	*	*	*
18	C905-19.50	*	*	*	*	*	*	*
18-20	19.00-20.50	*	*	*	*	*	*	*
18.20	20.50-21.50	*	*	*	*	*	*	*
20	C905-21.60	*	*	*	*	*	*	*
	21.35-22.60	*	*	*	*	*	*	*
	22.50-23.70	*	*	*	*	*	*	*
24	23.75-25.25	*	*	*	*	*	*	*
	C905-25.80	*	*	*	*	*	*	*
	25.50-26.50	*	*	*	*	*	*	*

\*NON STOCK CALL JABO SUPPLY

## TWO STRAP SS SADDLES



# Service Saddle

## Double Stainless Steel Strap

# 317

### IMPORTANT LINKS

Click appropriate words to go to:

[Standard Limited Warranty](#)  
[Sales Terms & Conditions](#)  
[Freight Policy](#)  
[Returns Policy](#)  
[Corrosion & Product Selection Notice](#)



**Description:** Double 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 4".

#### 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 fully bonds to the cavity to hold it in place
- NPT, CC and other threaded outlets available in sizes 5/8" thru 4"
- Wide bands spread the load over larger area to prevent damage to the pipe when tightening the straps
- 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. Double Strap 1.50" 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 per AWWA C213

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

**Pipe Applications:** Steel, Ductile Iron, Cast Iron, Asbestos Cement, PVC and HDPE (with spring washers)

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

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

## TWO STRAP SS SADDLES

## 317 DOUBLE STAINLESS STEEL STRAPS

PIPE APPLICATION: STEEL / DI / CAST IRON/ AC/ PVC/ HDPE (with Spring Washers)



## CC / TAPPERED OUTLET 5/8"-2-1/2"

SIZE (INCHES)	OD RANGE (INCHES)	CC TAPPERED OUTLET						
		5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
1-1/4-1-1/2"	1.61-1.92	*	*	*	NA	NA	NA	NA
2"	2.35-2.56	*	073-15214	073-15222	*	NA	NA	NA
2-1/4-2-1/2	2.44-2.91	*	*	*	*	*	*	*
3	2.97-3.54	*	073-15262	073-15270	*	*	*	*
3-4	3.74-4.13	*	073-15298	073-15306	*	*	*	*
4	4.40-4.50	*	*	*	*	*	*	*
4	4.40-4.80	*	073-15386	073-15394	*	*	*	*
4	4.74-5.14	*	*	*	*	*	*	*
4-5	5.00-5.63	*	*	*	*	*	*	*
6	5.94-6.70	*	073-15566	073-15526	*	*	*	*
6	5.94-6.90	*	*	*	*	*	*	*
6	6.84-7.60	*	*	073-15618	*	*	*	*
6-8	7.69-8.72	*	*	*	*	*	*	*
6-8	7.69-9.05	*	*	*	*	*	*	*
8-10	8.54-10.10	*	073-15746	073-15754	*	*	*	*
10	10.75-11.10	*	*	*	*	*	*	*
10-12	10.64-12.12	*	*	*	*	*	*	*
12	12.75-13.20	*	*	*	*	*	*	*
12-14	12.62-14.32	*	073-15938	*	*	*	*	*
12-14	14.73-15.65	*	*	*	*	*	*	*
14-16	15.95-17.25	*	*	*	*	*	*	*
16	17.25-17.80	*	*	*	*	*	*	*
16-18	17.40-18.88	*	*	*	*	*	*	*
**18	19.38-19.68	*	*	*	*	*	*	*
**20	21.55-21.65	*	*	*	*	*	*	*
**24	25.75-25.85	*	*	*	*	*	*	*

\*NON STOCK CALL JABO SUPPLY

\*\*FABRICATED STRAPS , EPOXY COATED CARBON STEEL

## TWO STRAP SS SADDLES

## 317 DOUBLE STRAP SADDLE

PIPE APPLICATION: STEEL / DI / CAST IRON/ AC/ PVC/ HDPE (with Spring Washers)



## NPT 5/8"-2-1/2" TAPS

SIZE (INCHES)	OD RANGE (INCHES)	NPT OUTLET						
		5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
1-1/4-1-1/2"	1.61-1.92	NA	*	*	*	*	*	*
2"	2.35-2.56	NA	*	*	*	*	*	*
2-1/4-2-1/2	2.44-2.91	NA	*	*	*	*	*	*
3	2.97-3.54	NA	*	*	073-15274	073-15282	*	*
3-4	3.74-4.13	NA	*	*	*	*	*	*
4	4.40-4.50	NA	*	*	*	*	*	*
	4.40-4.80	NA	*	073-15390	*	*	*	*
4-5	5.00-5.63	NA	*	*	*	*	*	*
6	5.94-6.70	NA	*	*	*	*	*	*
6	5.94-6.90	NA	073-15562	073-15570	*	073-15406	073-15594	*
	6.84-7.60	NA	*	073-15614	*	*	*	*
6-8	7.69-8.72	NA	*	*	*	*	*	*
	7.69-9.05	NA	*	073-15706	*	073-15722	*	*
8-10	8.54-10.10	NA	*	073-15750	*	*	073-15774	*
10	10.75-11.10	NA	*	073-15799	*	*	*	*
10-12	10.64-12.12	NA	*	073-15846	*	*	*	*
12	12.75-13.20	NA	*	*	*	*	*	*
12-14	12.62-14.32	NA	*	073-15942	*	*	*	*
12-14	14.73-15.65	NA	*	*	*	*	*	*
14-16	15.95-17.25	NA	*	*	*	*	*	*
16	17.25-17.80	NA	*	*	*	*	*	*
16-18	17.40-18.88	NA	*	*	*	*	*	*
**18	19.38-19.68	NA	*	*	*	*	*	*
**20	21.55-21.65	NA	*	*	*	*	*	*
**24	25.75-25.85	NA	*	*	*	*	*	*

\*NON STOCK CALL JABO SUPPLY

\*\*FABRICATED STRAPS , EPOXY COATED CARBON STEEL

QUICK REFERENCE PIPE CHART			
OD	IPS	DI/C900	PIT CAST
3"	3.5		3.8
4"	4.5	4.8	4.8
6"	6.63	6.9	6.9
8"	8.63	9.05	9.05
10"	10.75	11.1	11.1
12"	12.75	13.2	13.2
14"	14	15.3	15.3

## TWO STRAP SS SADDLES

**317 DOUBLE STRAP SADDLE**

PIPE APPLICATION: STEEL / DI / CAST IRON/ AC/ PVC/ HDPE (with Spring Washers)

**NPT 3" AND 4" NPT TAPS**

SIZE	OD RANGE	NPT NPT OUTLET	
(INCHES)	(INCHES)	3"	4"
6	6.84-7.60	*	*
8-10	8.54-10.10	*	*
***10	10.75-11.10	*	*
10-12	11.30-12.12	*	*
12	12.75-13.20	*	*
12-14	13.40-14.32	*	*

\* NON STOCK CALL JABO SUPPLY

\*\*FABRICATED STRAPS , EPOXY COATED  
CARBON STEEL

\*\*\*SIZED FOR USE ON C900 PVC PIPE

### Typical Specification

#### JCM 406 Coated Service Saddle with Double Stainless Steel Straps

Service Saddles for pipe sizes 2" through 12" shall have a wrap around design with a ductile iron body, fusion plastic coated. The coating thickness shall be a minimum of 12 mils with a dielectric strength of over 12,000 volts. The gasket shall be a broad pressure activated design, molded of virgin rubber and bonded into a cavity in the saddle body which provides internal as well as external gasket retention.

The straps, bolts, nuts and washers shall be 18-8 stainless steel with all welds passivated for resistance to corrosion. The combined strap width shall be 3-1/4" to provide a wide stance on the pipe.

Service saddles for pipe sizes 14" through 24" shall have two (2) 2-3/4" wide stainless steel straps.

Service Saddles shall be JCM 406 or approved equal.

JCM 400 Series Service Saddles meet or exceed ANSI/AWWA C-800 Standard for Underground Service Line Valve and Fittings. Meets Uni-Bell Handbook of PVC Pipe/AWWA Manual M23 Design and Installation of PVC Pipe.

JCM 400 Series Service Saddles are ANSI/NSF Standard 61, Annex G and ANSI/NSF 372 Certified.

Fittings are available American Iron and Steel/Build America, Buy America Compliant with special order.

*This typical specification, provided by JCM Industries, is a proposed guideline for use by specifying agencies to ensure significant design and material features of this product are included within the agencies' individual specifications.*



JCM 406 Service Saddle  
Outlet Sizes 3/4" – 1"



JCM 406 Service Saddle  
Outlet Sizes 1-1/4" – 2-1/2"

## Material Specification

### JCM 406 Coated Service Saddle with Double Stainless Steel Straps

JCM Coated Saddles are constructed of ductile iron with a high-density fusion plastic coating and have 18-8 Type 304 Stainless Steel straps, nuts and washers for high corrosion resistance. These saddles meet or exceed ANSI/AWWA C800 Standard for Underground Service Line Valve and Fittings.

- Body Casting:** Wrap around design of Ductile Iron, ASTM A-536 annealed to 60-40-18. Body has a gasket cavity, which provides internal as well as external gasket retention.
- Gasket:** Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Molded virgin rubber with a pressure activated hydromechanical design. Gasket is bonded into a cavity for internal and external retention. Gasket temperature range -40oF to 212oF (-40oC – 100oC) Gasket suitable for water, salt solutions, mild acids, bases, and sewage. Optional EPDM gasket available.
- Straps:** Stainless steel, 18-8 Type 304, the straps are equal to or greater than the internal diameter of the gasket to provide for proper pipe support and gasket loading. Strap is 14 gauge stainless steel. Straps are passivated for corrosion resistance. Optional 316 stainless steel available.
- Bolts, Nuts, Washers:** Stainless steel, 18-8 Type 304, passivated for corrosion resistance. Nuts coated with Xylan antiseize compound to reduce friction and galling. Nominal Sizes 2" – 3" with 1/2" UNC roll thread, 1/2" stainless washers and heavy hex nuts, nominal sizes 4" and larger with 5/8" UNC roll thread, 5/8" stainless washers and heavy hex nuts. Optional 316 stainless steel available.
- Coating:** Casting is coated with fusion bonded high density blue plastic, 12 mils minimum thickness, with a dielectric strength of over 12,000 volts. Water absorption less than .20% (less than nylon) prevents undercutting and blistering.
- Pressure Rating:** Working pressure is 250 PSI hydrostatic. With proper installation to the manufacturer's instructions, JCM Service Saddles are rated 1.5 times the working pressure of the pipe assuming that does not exceed the capability of the host pipe, up to the maximum rating of the pipe. Inspection of pipe integrity, site conditions, and quality of installation are the responsibility of the end user. Contact the factory if higher working pressure is required.
- Sizes:** See catalog.
- Standards:** JCM 400 Series Service Saddles meet or exceed ANSI/AWWA C800 Standard for Underground Service Line Valve and Fittings.
- JCM 400 Series Service Saddles are ANSI/NSF Standard 61, Annex G and ANSI/NSF 372 Certified.
- JCM Industries endorses observance of Uni-Bell Handbook of PVC Pipe/AWWA Manual M23 Design and Installation of PVC Pipe and endorses the recommendations they make for tapping PVC Pipe. Service Fittings are available to adhere to those recommendations.

Fittings are available American Iron and Steel/Build America, Buy America Compliant with special order.

*Information provided based on current data available. Contact JCM Industries Technical Services for modifications or changes.*

## TWO STRAP SS SADDLES

## JCM 406 SERVICE SADDLE TWO STRAP SS

2 STRAP SS



## CC 1/2"-2-1/2" TAPS

SIZE (INCHES)	OD RANGE (INCHES)	CC OUTLET						
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
2"	2.35-2.63	NA	*	*	NA	NA	NA	NA
2-1/2	2.70-3.13	NA	*	*	NA	NA	NA	NA
3	3.25-3.50	NA	*	*	*	*	NA	NA
3-4	3.80-4.13	NA	*	*	*	*	NA	NA
4	4.25-4.50	NA	*	*	*	*	*	NA
	4.50-4.80	NA	*	*	*	*	*	NA
	4.74-5.45	NA	*	*	*	*	*	NA
5	5.50-5.56	NA	*	*	*	*	*	NA
6	6.50-6.63	NA	*	*	*	*	*	NA
	6.50-6.63	NA	*	*	*	*	*	NA
	6.63-6.90	NA	*	*	*	*	*	NA
	6.84-7.60	NA	*	*	*	*	*	NA
8	8.50-8.63	NA	*	*	*	*	*	NA
	8.63-9.05	NA	*	*	*	*	*	NA
	8.99-9.79	NA	*	*	*	*	*	NA
10	10.60-10.75	NA	*	*	*	*	*	NA
	10.75-11.10	NA	*	*	*	*	*	NA
	11.10-11.40	NA	*	*	*	*	*	NA
	11.0-12.25	NA	*	*	*	*	*	NA
12	12.75-13.20	NA	*	*	*	*	*	NA
	12.75-13.50	NA	*	*	*	*	*	NA
	13.10-14.38	NA	*	*	*	*	*	NA
12-14	14.0-15.20	NA	*	*	*	*	*	NA
14	c-905-15.30	NA	*	*	*	*	*	NA
14-16	15.20-16.60	NA	*	*	*	*	*	NA
16	C905-17.40	NA	*	*	*	*	*	NA
16-18	17.30-18.88	NA	*	*	*	*	*	NA
18	C905-19.50	NA	*	*	*	*	*	NA
18-20	19.00-20.50	NA	*	*	*	*	*	NA
18.20	20.50-21.50	NA	*	*	*	*	*	NA
20	C905-21.60	NA	*	*	*	*	*	NA
	21.35-22.60	NA	*	*	*	*	*	NA
	22.50-23.70	NA	*	*	*	*	*	NA
24	23.75-25.25	NA	*	*	*	*	*	NA
	C905-25.80	NA	*	*	*	*	*	NA
	25.50-26.50	NA	*	*	*	*	*	NA

\*NON STOCK CALL JABO SUPPLY

## TWO STRAP SS SADDLES

## JCM 406 SERVICE SADDLE DOUBLE BAILE

PIPE APPLICATION: STEEL / DI / CAST IRON/ AC/ PVC/ HDPE (with Spring Washers)



## NPT 1/2"-2-1/2" TAPS

SIZE (INCHES)	OD RANGE (INCHES)	NPT NPT OUTLET						
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
2"	2.35-2.63	*	*	*	NA	NA	NA	NA
2-1/2	2.70-3.13	*	*	*	NA	NA	NA	NA
3	3.25-3.50	*	*	*	071-01700	071-01720	*	NA
3-4	3.80-4.13	*	*	*	*	*	*	NA
4	4.25-4.50	*	*	*	*	*	*	*
	4.50-4.80	*	*	071-01730	*	071-01740	*	*
	4.74-5.45	*	*	*	*	*	*	*
5	5.50-5.56	*	*	*	*	*	*	*
6	6.50-6.63	*	*	*	*	*	*	*
	6.50-6.63	*	*	*	*	*	*	*
	6.63-6.90	071-01760	*	*	*	071-01770	*	*
	6.84-7.60	*	*	*	*	*	*	*
8	8.50-8.63	*	*	*	*	*	*	*
	8.63-9.05	*	*	*	*	071-01780	*	*
	8.99-9.79	*	*	*	*	*	*	*
10	10.60-10.75	*	*	*	*	*	*	*
	10.75-11.10	*	*	*	*	*	*	*
	11.10-11.40	*	*	*	*	*	*	*
	11.0-12.25	*	*	*	*	*	*	*
12	12.75-13.20	*	*	*	*	*	*	*
	12.75-13.50	*	*	*	*	*	*	*
	13.10-14.38	*	*	*	*	*	*	*
12-14	14.0-15.20	*	*	*	*	*	*	*
14	C905-15.30	*	*	*	*	*	*	*
14-16	15.20-16.60	*	*	*	*	*	*	*
16	C905-17.40	*	*	*	*	*	*	*
16-18	17.30-18.88	*	*	*	*	*	*	*
18	C905-19.50	*	*	*	*	*	*	*
18-20	19.00-20.50	*	*	*	*	*	*	*
18.20	20.50-21.50	*	*	*	*	*	*	*
20	C905-21.60	*	*	*	*	*	*	*
	21.35-22.60	*	*	*	*	*	*	*
	22.50-23.70	*	*	*	*	*	*	*
24	23.75-25.25	*	*	*	*	*	*	*
	C905-25.80	*	*	*	*	*	*	*
	25.50-26.50	*	*	*	*	*	*	*

\*NON STOCK CALL JABO SUPPLY

## WIDE RANGE SERVICE SADDLE / CLAMPS WITH OUTLET

The Series T3 is a unique wide range Universal Type 304 Stainless Steel Service Tapping Product that may be used on all types of pipe including: ductile iron, cast iron, PVC, asbestos cement, steel and HDPE.

The Series T3 is a unique wide range Universal Type 304 Stainless Steel Service Tapping Product that may be used on all types of pipe including: ductile iron, cast iron, PVC, asbestos cement, steel and HDPE. This substantially reduces the need for extra on-hand sizes to accommodate various pipe materials found in local distribution systems requirements when performing service line taps. The Series T3 exceeds all industry standards including AWWA C800; sizes 10" and above are equipped with an insulating boot that prevents contact with the pipe and reduces the potential for corrosion when used on ferrous pipe materials.

Integrated Handle for ease of installation



Patent Pending Cam Lug Fingers for Extended Range

Since the Series T3 may be used on all pipe materials with the ability to cut saddle inventory by over 70%, it is a suitable candidate to replace multiple services saddles made from various materials such as brass, ductile iron and plastic as well as a selection of other stainless steel saddle versions.

### Unique patented extended range Cam Lug System.

U.S. Patent Numbers 9,970,584 and 10,544,894.

The user friendly lug system, with built in handle enables one product to carry over twice the range of a standard saddle, allowing for inventory reduction and simplification of the installation process. The outlet design features a stronger spin-extruded branch with higher strength welds to resist threaded service valve installation torque and fatigue cracking.

### T3 EXCLUSIVE:

**Single Panel** design from 2" up to and including 16" Nominal up to 250 psi

**Double Panel** design from 18" up to and including 24" Nominal up to 200 psi 30" up to and including 36" Nominal up to 150 psi

**Triple Panel** design from 42" up to and including 48" Nominal up to 125 psi  
Now available in 316 stainless Steel with 2" NPT Outlets for use on PRV Service



Optional Removable Lugs

### Specifications

**Pressure Rating:** Up to 250 PSI Maximum Working Pressure depending on diameter, Call factory for additional information

**Temperature Rating:** Maximum Continuous Working Temperature range of 180°F

**Gasketing:** NSF-61 Approved NBR Rubber – For Water Service (EPDM Available upon Request)

**Shell:** Heavy Duty 14, 18 or 20 gauge band (depending on diameter) of Type 304, 18-8 Stainless Steel, Fully Passivated for Corrosion Protection. Shell band widths are 7-1/2" on 4" to 16" and 10" widths on 18" to 48" diameters

**Alignment Lugs:** Heavy Duty Cast Type 304, 18-8 Stainless Steel permanently welded fused to band with integrated handle for ease of assembly, removable lugs available upon request

**Branch Connections:** Type 304 18-8 Stainless Steel Thread-O-Lets available in 1/2" to 2" in diameter

**Outlets:** Type 304, 18-8 Stainless Steel available in either "CC" or "NPT" thread pitches

**Band Insulating Boot:** EPDM Rubber

**Bolts/Nuts/Washers:** Type 304 Stainless steel, Bolt threads 5/8" Rolled, coated with Fluoropolymer Coating to prevent galling

NOTE: Product pressure rating, temperature rating and bolt torque can vary depending on the product diameter, type of connection, and the pipe material being utilized. The pressure rating, temperature rating, and bolt torque shown on the product label are the actual ratings of the individual product.

Note: For Sewerage Applications product is available in 316 Stainless Steel construction with 2" NPT Outlets. For this application always contact customer service rep.

For Corrosive or Hot Soil Conditions a grade of Stainless higher than Type 304 may be Required. Please consult with your piping engineering for guidance.



# WIDE RANGE SERVICE SADDLE / CLAMPS WITH OUTLET

## Technical Specifications

Nom. Diam.	Lower Diam.	Upper Diam.	Connection Sizes	CTS	IPS	DI	Pit Cast	AC100	AC150	AC200
2	2.10	2.40	1/2 to 1"	2.13	2.38		2		2	
2	2.35	2.65	1/2 to 1.5"		2.38		2.5			
3	3.10	3.30	1/2 to 1.5"	3.13						
3	3.30	3.60	1/2 to 1.5"		3.50					
3	3.79	4.13	1/2 to 2"	4.13			3.96			
3	4.01	4.41	1/2 to 2"	4.13					4.18	
4	4.45	5.13	1/2" to 2"	5.13	4.50	4.80	5.00			
4 o.s.	4.74	5.61	1/2" to 2"			4.80	5.00	5.26	5.32	5.57
5	5.50	6.20	1/2" to 2"	6.13	5.56					5.57
6	6.55	7.42	1/2" to 2"		6.63	6.90	7.10	7.40	7.37	
6 o.s.	6.84	7.65	1/2" to 2"			6.90	7.10	7.40	7.37	7.60
8	8.54	9.44	1/2" to 2"		8.63	9.05	9.30			
8 o.s.	8.98	9.84	1/2" to 2"			9.05	9.30	9.57	9.62	9.79
10	10.64	11.46	1/2" to 2"		10.75	11.10	11.40			
10 o.s.	11.34	12.16	1/2" to 2"				11.40	11.77	12.12	12.12
12	12.62	13.56	1/2" to 2"		12.75	13.20	13.50			
12 o.s.	13.65	14.42	1/2" to 2"		14.00			14.04	14.38	14.38
14	15.22	16.16	1/2" to 2"		16.00	15.30	15.65	15.80		
14 o.s.	16.18	16.92	1/2" to 2"						16.73	16.88
16	17.25	18.18	1/2" to 2"		18.00	17.40	17.80	17.94		
16 o.s.	18.42	19.23	1/2" to 2"						18.97	19.19
18	19.32	21.04	1/2" to 2"		20.00	19.50	19.92	19.90	20.94	
18 o.s.	21.10	22.80	1/2" to 2"			21.60	22.06		21.30	22.54
20	23.20	25.10	1/2" to 2"		24.00			23.64		25.02
24	25.60	27.30	1/2" to 2"			25.80	26.32	27.17		
24 o.s.	27.80	29.70	1/2" to 2"					28.32	29.62	
30	29.70	30.30	1/2" to 2"		30.00					29.98
30 o.s.	31.96	32.46	1/2" to 2"			32.00	32.40			
36	35.80	36.20	1/2" to 2"		36.00					
36 o.s.	38.10	38.50	1/2" to 2"			38.30				
42	44.30	44.70	1/2" to 2"			44.50				
48	50.60	51.00	1/2" to 2"			50.80				

### Applicable Standards and Product Cautions:

**ASTM A380-06** Standard Practice for Cleaning Descaling and Passivation of Stainless Steel Parts Equipment and Systems

**ASTM A967-05** Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts

**ANSI/AWWA C800** Standard for Underground Service Line Valve and Fittings

**NSF/ANSI STANDARD 61** - Drinking Water System Components

**ASTM D2000 - 12** Standard Classification Systems for Rubber Products

**CAUTION:** Saddles must not be reused until refurbished with new bolts and new gaskets at factory

**For All Sewer Applications:** Please Contact Total Piping Solutions for product options and availability  
 NSF/ANSI/CAN 372 Safe Water Drinking Act (SDWA) lead-free plumbing requirements

**WARNING** This product is not intended for use on natural gas piping or any other type of gas piping. To do so could result in escaping gas that could ignite and cause property damage, serious injury or death.

**WARNING** This is a non-restraining product. If pipe pullout can occur, proper anchoring of the pipe joint is required. Failure to anchor the pipe could result in the escape of line content, and may cause property damage, serious injury or death.

**WARNING** This product is intended for use on HDPE SDR-17 or greater wall thicknesses, and shall be used for buried service only. The Triple Tap product line is not approved for above ground applications on HDPE or other plastic pipe

# WIDE RANGE SERVICE SADDLE / CLAMPS WITH OUTLET

## TPS WIDE RANGE SADDLES AND OUTLET CLAMPS

PIPE APPLICATION: WIDE RANGE UNIVERSAL, MAY BE USED ON MOST PIPES

### T3 SERVICE SADDLE

CC OUTLET



JABO #	PIPE SIZE	OD RANGE	OUTLET SIZE	
			LENGTH	
074-60049	4"	4.45-5.13	3/4"	7.5
074-60017			1"	7.5
074-60169	6"	6.55-7.42	3/4"	7.5
074-60137			1"	7.5
074-60249	8"	8.54-9.44	3/4"	7.5
074-60217			1"	7.5
074-60328	10"	10.64-11.46	3/4"	7.5
074-60297			1"	7.5
074-60409	12"	12.62-13.56"	3/4"	7.5
074-60377			1"	7.5
<b>ADDITIONAL SIZES, OD RANGE, OUTLETS AND LENGTH AVAILABLE UPON REQUEST</b>				

### QUICK CAM REPAIR CLAMP WITH OUTLET

CC OUTLET



JABO #	PIPE SIZE	OD RANGE	OUTLET SIZE	
			LENGTH	
074-54196	4"	4.72-5.13	3/4"	7.5
074-54197	4"		1"	7.5
*	6"	6.55-7.42	3/4"	7.5
074-54269			1"	7.5
074-54812	8"	8.54-9.44	3/4"	<b>12"</b>
074-54780			1"	<b>12"</b>
<b>AVAILABLE UPON REQUEST</b>				

### T3 SERVICE SADDLE

The Series T3 is a unique wide range Universal Type 304 Stainless Steel Service Tapping Product that may be used on all types of pipe including: ductile iron, cast iron, PVC, asbestos cement, steel and HDPE. This substantially reduces the need for extra on-hand sizes to accommodate various pipe materials found in local distribution systems requirements when performing service line taps. The Series T3 exceeds all industry standards including AWWA C800; sizes 10" and above are equipped with an insulating boot that prevents contact with the pipe and reduces the potential for corrosion when used on ferrous pipe materials.

Nominal Diameter	Lower Diameter	Upper Diameter	CTS	IPS	DIP	Pit Cast	AC100	AC150	AC200
2	2.35	2.63	2.63	2.38		2.50			
2-1/2	2.70	3.00		2.88					
3	3.42	4.26	4.13	3.50	3.96		3.95	4.13	4.18
4	4.45	5.13	5.13	4.50	4.80	5.00			
4 o.s.	4.74	5.61			4.80	5.00	5.26	5.32	5.57
5	5.50	6.20	6.13	5.56					5.57
6	6.55	7.42		6.63	6.90	7.10	7.40	7.37	
6 o.s.	6.84	7.65			6.90	7.10	7.40	7.37	7.60
8	8.54	9.44		8.63	9.05	9.30			
8 o.s.	8.98	9.84			9.05	9.30	9.57	9.62	9.79
10	10.64	11.46		10.75	11.10	11.40			
10 o.s.	11.34	12.16				11.40	11.77	12.12	12.12
12	12.62	13.56		12.75	13.20	13.50			
12 o.s.	13.65	14.42		14.00			14.04	14.38	14.38



## STANDARD RANGE CLAMPS WITH OUTLET

# Tapped Full Circle<sup>®</sup>

## Repair Clamp Single Band

# 238

### IMPORTANT LINKS

Click appropriate words to go to:

[Standard Limited Warranty](#)

[Sales Terms & Conditions](#)

[Freight Policy](#)

[Returns Policy](#)

[Corrosion & Product Selection Notice](#)



**THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT.** Proper anchoring is required to prevent pipe pullout. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Read the product installation instructions prior to installing this product.

### Description:

A tapped clamp to repair damaged pipe at broken or torn out service connections or branch lines.

**Application:** Service connection or branch line connections.

### Key Features:

- Stainless Steel outlet welded to band and features a choice of NPT, CC, AWWA or BSP threads
- Removable lugs allow installation in tight spaces
- Maximum support and reinforcement with 360° coverage
- Drop-in bolts in the joint to be opened help ease installation
- A wide variety of outlet sizes and thread types available to meet demand
- Lugs have a Fusion-Bonded Flexi-Coat<sup>®</sup> Epoxy Finish for great corrosion resistance
- One starter (longer) bolt minimum per clamp thru 4.5" O.D. size to help with installation
- Range up to .40"
- Pressure ratings up to 300 PSI

### Materials Specifications (subject to change):

**BAND:** Stainless Steel Type 304

**LUGS:** Ductile Iron ASTM A536, 80-55-06

**GASKET:** Nitrile (Buna N) compounded to produce superior storage and performance characteristics, while resisting water, acids, alkalis, most (aliphatic) hydrocarbon and many other chemicals

**Temperature Range:** -20°F to 180°F. Consult manufacturer for specific applications and other service temperatures

**BRIDGE PLATE:** 304 Stainless Steel recessed flush and bonded into gasket

**BOLTS:** High strength low alloy Steel with heavy semi-finished hexagon nuts. Per ANSI B. 18.2.2. Optional 304 Stainless Steel bolts with fluoropolymer coated nuts to prevent galling

**NOTE:** Also available in metric sizes. HDPE applications will require clamps with spring washers.

**Pipe Applications:** Cast Iron, Ductile Iron, Asbestos Cement, Steel, PVC, HDPE, and most other types of pipe

### Sizes (in inches):

- 3, 4, 6, 8, 10, 12 offered with ¾" or 1" NPT taps
- 4, 6, 8, 10, 12 offered with 1¼", 1½" or 2" NPT taps
- 3, 4, 6, 8, 10, 12 offered with ¾", 1", 1¼", 1½", or 2" CC taps

## STANDARD RANGE CLAMPS WITH OUTLET

## 238 FULL CIRCLE REPAIR CLAMP WITH OUTLET

Single Band

## CC OUTLET 3-8" PIPE SIZE



SIZE (INCHES)	LENGTH (INCHES)	OD RANGE (INCHES)	CC OUTLET				
			3/4"	1"	1-1/4"	1-1/2"	2"
3	7.5	3.46-3.70	*	*	NA	NA	NA
	10		NA	NA	NA	NA	NA
	12.5		*	*	NA	NA	NA
	15		NA	NA	NA	NA	NA
3-4	7.5	3.73-4.00	*	*	NA	NA	NA
	10		NA	NA	NA	NA	NA
	12.5		*	*	NA	NA	NA
	15		NA	NA	NA	NA	NA
3	7.5	3.96-4.25	*	*	NA	NA	NA
	10		NA	NA	NA	NA	NA
	12.5		*	*	NA	NA	NA
	15		NA	NA	NA	NA	NA
4	7.5	4.45-4.73	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	*	*	*	*
	15		NA	NA	*	*	*
4	7.5	4.74-5.14	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		073-04954	073-04962	*	*	*
	15		NA	NA	*	*	*
6	7.5	6.56-6.96	*	*	*	*	*
	10		NA	NA	*	*	*
	12		073-05374	*	*	*	*
	15		NA	NA	*	*	*
6	7.5	6.84-7.24	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	073-05382	*	*	*
	15		NA	NA	*	*	*
8	7.5	8.54-8.94	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	*	*	*	*
	15		NA	NA	*	*	*
8	7.5	8.99-9.39	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		073-05778	073-05786	*	*	073-05798
	15		NA	NA	*	*	*

\*JABO SUPPLY NON STOCK

## STANDARD RANGE CLAMPS WITH OUTLET

## 238 OUTLET CLAMP

## CC OUTLET 10-12" PIPE SIZE



SIZE (INCHES)	LENGTH (INCHES)	OD RANGE (INCHES)	CC OUTLET				
			3/4"	1"	1-1/4"	1-1/2"	2"
10	7.5	10.64-11.0	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
10	7.5	11.04-11.44	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
12	7.5	12.62-13.02	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
12	7.5	13.10-13.50	*	*	*	*	*
	10		*	*	*	*	*
	12.5		073-06386	073-06394	*	*	*
	15		*	*	*	*	*

\*JABO SUPPLY NON STOCK

## NPT OUTLET 3" -SMALL DIAMETER 4"



SIZE (INCHES)	LENGTH (INCHES)	OD RANGE (INCHES)	NPT OUTLET				
			3/4"	1"	1-1/4"	1-1/2"	2"
3	7.5	3.46-3.70	*	*	NA	NA	NA
	10		NA	NA	NA	NA	NA
	12		*	*	NA	NA	NA
	15		NA	NA	NA	NA	NA
3-4	7.5	3.73-4.00	*	*	NA	NA	NA
	10		NA	NA	NA	NA	NA
	12		*	*	NA	NA	NA
	15		NA	NA	NA	NA	NA
4	7.5	3.96-4.25	*	*	NA	NA	NA
	10		NA	NA	NA	NA	NA
	12		*	*	NA	NA	NA
	15		NA	NA	NA	NA	NA
4	7.5	4.45-4.73	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	*	*	*	*
	15		NA	NA	*	*	*

\*JABO SUPPLY NON STOCK

## STANDARD RANGE CLAMPS WITH OUTLET

## 238 OUTLET CLAMP

## NPT OUTLET 4"-12"



SIZE (INCHES)	LENGTH (INCHES)	OD RANGE (INCHES)	NPT OUTLET				
			3/4"	1"	1-1/4"	1-1/2"	2"
4	7.5	4.74-5.14	*	*	*	*	*
	10		073-04902	NA	*	*	*
	12.5		*	*	*	*	073-04974
	15		073-05010	NA	*	*	*
6	7.5	6.56-6.96	*	*	*	*	*
	10		NA	NA	*	*	*
	12		*	*	*	*	*
	15		073-05218	NA	*	*	*
6	7.5	6.84-7.24	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	*	*	*	073-05394
	15		NA	NA	*	*	*
8	7.5	8.54-8.94	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	*	*	*	*
	15		073-05630	NA	*	*	073-05650
8	7.5	8.99-9.39	*	*	*	*	*
	10		NA	NA	*	*	*
	12.5		*	*	*	*	*
	15		NA	NA	*	*	*
10	7.5	10.64-11.0	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
10	7.5	11.04-11.44	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	073-06102
	15		*	*	*	*	*
12	7.5	12.62-13.02	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
12	7.5	13.10-13.50	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	073-06402
	15		*	*	*	*	*

\*JABO SUPPLY NON STOCK



# STANDARD RANGE CLAMPS WITH OUTLET Tapped Full Circle<sup>®</sup> Repair Clamp

All Stainless Steel, Fabricated Lugs, Single Band

# 264

## IMPORTANT LINKS

Click appropriate words to go to:

- Standard Limited Warranty
- Sales Terms & Conditions
- Freight Policy
- Returns Policy
- Corrosion & Product Selection Notice



**THIS PRODUCT DOES NOT RESTRAIN PIPE MOVEMENT.** Proper anchoring is required to prevent pipe pullout. Failure to anchor or improper anchoring can result in dangerous pipe content escape, property damage, serious injury, or death. Read the product installation instructions prior to installing this product.

**Description:** A single-band clamp designed to provide 360° pressure and complete leak repair

**Application:** For leaks at service outlets.

### Key Features:

- Standard widths 7.5" through 30"
- Can be used to repair pipe or join pipe ends
- Can be manufactured to odd size pipe O.D.'s
- All 304 Stainless Steel construction for corrosion resistance
- A 360° Gasket seal provides maximum support and reinforcement
- A wide variety of outlet sizes and thread types available to meet demand
- Keeper bar helps pull clamp around the pipe and closes the clamp during installation
- Range up to .40"
- Larger clamps have a greater range to help reduce inventory

### Materials Specifications (subject to change):

BAND: 304 Stainless Steel

LUGS: 304 Stainless Steel

KEEPER BARS: 304 Stainless Steel

GASKET: Nitrile (Buna N) to produce superior storage and performance characteristics while resisting water, acids, alkalis, most (aliphatic) hydrocarbon and other chemicals.

Temperature Range: -20° F to +180° F

BRIDGE PLATE: 304 Stainless Steel recessed flush and bonded to gasket.

STUD BOLTS: 304 Stainless Steel Epoxy coated

NUTS: fluoropolymer coated to prevent galling

**Working Pressure:** Up to 150 PSI

**Pipe Applications:** Cast & Ductile Iron, Asbestos Cement, PVC, HDPE\*, Steel, Copper, Fiberglass and other types of pipes

*\*HDPE applications will require clamps with spring washers.*

**Sizes (in inches):** 3, 4, 6, 8 (Also available in metric sizes). ¾", 1", 1 ¼", and 2" NPT and CC tap sizes.

### Bolt Numbers

BAND WIDTH INCHES	NUMBER OF STUDS	STUD SIZES
7.5	2	5/8" x 7"
10	3	
12.5	3	
15	5	

# STANDARD RANGE CLAMPS WITH OUTLET

## 264 FULL CIRCLE REPAIR CLAMP WITH OUTLET

All Stainless Steel, Fabricated Lugs, Single Band

### 264 FULL CIRCLE WITH CC OUTLET



SIZE (INCHES)	LENGTH (INCHES)	OD RANGE (INCHES)	CC OUTLET				
			3/4"	1"	1-1/4"	1-1/2"	2"
3	7.5	3.46-3.70	*	*	NA	NA	NA
	10		*	*	NA	NA	NA
	12		*	*	NA	NA	NA
	15		*	*	NA	NA	NA
3-4	7.5	3.73-4.00	*	*	NA	NA	NA
	10		*	*	NA	NA	NA
	12		*	*	NA	NA	NA
	15		*	*	NA	NA	NA
4	7.5	3.96-4.25	*	*	NA	NA	NA
	10		*	*	NA	NA	NA
	12		*	*	NA	NA	NA
	15		*	*	NA	NA	NA
4	7.5	4.45-4.73	073-10454	*	*	*	*
	10		*	*	*	*	*
	12.5		073-10510	*	*	*	*
	15		*	*	*	*	*
4	7.5	4.74-5.14	073-10562	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
6	7.5	6.56-6.96	*	*	*	*	*
	10		*	*	*	*	*
	12		*	*	*	*	*
	15		*	*	*	*	*
6	7.5	6.84-7.24	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
8	7.5	8.54-8.94	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
8	7.5	8.99-9.39	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*

\*JABO SUPPLY NON STOCK

# STANDARD RANGE CLAMPS WITH OUTLET

## 264 FULL CIRCLE REPAIR CLAMP WITH OUTLET

All Stainless Steel, Fabricated Lugs, Single Band

### 264 FULL CIRCLE WITH NPT OUTLET



SIZE (INCHES)	LENGTH (INCHES)	OD RANGE (INCHES)	NPT OUTLET				
			3/4"	1"	1-1/4"	1-1/2"	2"
3	7.5	3.46-3.70	*	*	NA	NA	NA
	10		*	*	NA	NA	NA
	12		*	*	NA	NA	NA
	15		*	*	NA	NA	NA
3-4	7.5	3.73-4.00	*	*	NA	NA	NA
	10		*	*	NA	NA	NA
	12		*	*	NA	NA	NA
	15		*	*	NA	NA	NA
4	7.5	3.96-4.25	*	*	NA	NA	NA
	10		*	*	NA	NA	NA
	12		*	*	NA	NA	NA
	15		*	*	NA	NA	NA
4	7.5	4.45-4.73	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
4	7.5	4.74-5.14	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	073-10646
	15		*	*	*	*	*
6	7.5	6.56-6.96	*	*	*	*	*
	10		*	*	*	*	*
	12		*	*	*	*	*
	15		*	*	*	*	*
6	7.5	6.84-7.24	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
8	7.5	8.54-8.94	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*
8	7.5	8.99-9.39	*	*	*	*	*
	10		*	*	*	*	*
	12.5		*	*	*	*	*
	15		*	*	*	*	*

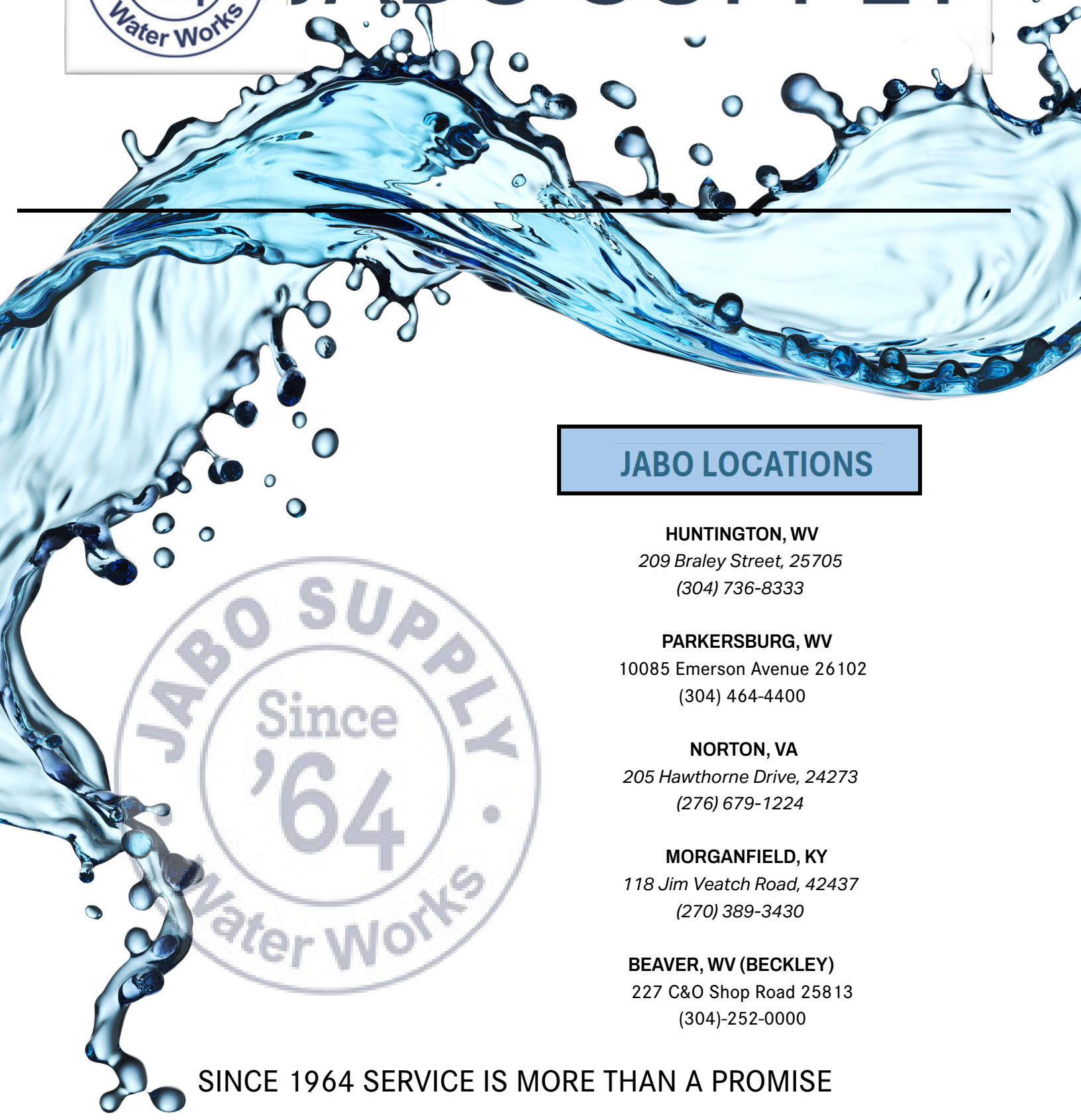
\*JABO SUPPLY NON STOCK

## NOTES

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# JABO SUPPLY



## JABO LOCATIONS

### HUNTINGTON, WV

209 Braley Street, 25705  
(304) 736-8333

### PARKERSBURG, WV

10085 Emerson Avenue 26102  
(304) 464-4400

### NORTON, VA

205 Hawthorne Drive, 24273  
(276) 679-1224

### MORGANFIELD, KY

118 Jim Veatch Road, 42437  
(270) 389-3430

### BEAVER, WV (BECKLEY)

227 C&O Shop Road 25813  
(304)-252-0000

SINCE 1964 SERVICE IS MORE THAN A PROMISE