



## Service Saddles

Service Saddles provide a quick, dependable means of tapping pipe for branch connections of 1/2" through 2-1/2". Use of economical Service Saddles eliminate problems common to direct taps, such as leaking threads or split pipe, and reinforces the critical connection.

Service Saddles are designed for maximum safety and performance. The wrap around design, wide skirt and wide straps support and reinforce the pipe while providing excellent stability to the saddle. The heavy duty design of these saddles provides strength and mass for long term service.

High pressure performance is assured by the broad, pressure activated gasket. Permanently set in a retaining cavity, the contoured gasket produces a positive initial seal which increases with increase in line pressure.

The 402, 404 and 406 saddles, with their wide bodies and large sealed outlet areas, provide an excellent means of repairing holes, pin holes and leaking 3/4" and 1" direct taps.

### DESIGNED FOR SAFETY AND PERFORMANCE

#### HEAVY THREADED OUTLET -

with IPS or CC threads reinforces the critical connection.

#### BROAD PRESSURE ACTIVATED

**GASKET** - for low and high pressure performance.

#### CORROSION RESISTANT COATING

- for long-term service.

#### WIDE STRAPS -

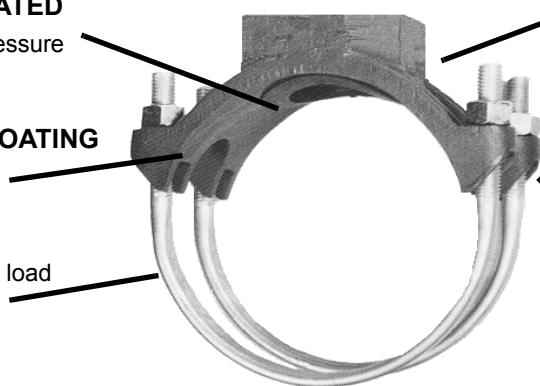
increase the load bearing area of the straps.

#### HEAVY DUTY DESIGN -

provides strength and mass for long term service.

#### CLOSED CANTED EARS -

for extra protection against electrolysis and maximum strap bearing.



#### WIDE BODY WRAP AROUND

**DESIGN** - support and reinforce the pipe and provide excellent stability.

#### Material Specifications:

**Body:** Ductile Iron ASTM A536

**Straps:** **Models 401, 402** - Electro Galvanized Steel; **Models 403, 404, 405, 406** - Bands, Bolts, Nuts and Washers are 18-8 Type 304 Stainless Steel.

**Gasket:** Compounded for use with water, salt solutions, mild acids, bases.

**Finish:** **Models 401, 402, 403, 404** - Standard Shop Coat Primer: Heavy coat of corrosion resistant metal primer. **Models 405, 406** - Fusion Plastic Coating: fusion bonded, high density blue plastic coating, 12 mils minimum thickness with a dielectric strength of over 12,000 volts.

## 402 Double Strap Service Saddles

The 402 Double Strap Service Saddle provides a simple, dependable means of tapping all types of pipe for branch connections 1/2" through 2-1/2". With its wide body, large sealed outlet area and heavy duty wrap around design, the 402 is also an excellent way to repair holes, pin holes and leaking 3/4" and 1" direct taps.

Saddles for pipe sizes 14" through 24" incorporates two fabricated wide electro-galvanized steel straps for increased stability necessary for larger sizes of pipe.



\*Outlets Not available in 1-1/4", 1-1/2", 2" or 2-1/2"

\*\*Outlets Not available in 2" CC or 2-1/2" IP

### IFT 402 DOUBLE STRAP SERVICE SADDLES

NOM. PIPE SIZE (IN.)	PIPE O.D. RANGE (IN.)	BASE CATALOG NUMBER X ADD TAP CODE	APPR. WT. EACH (LBS.)	CTN. QTY.
2	2.35 - 2.63	*402-0238 X --	4	6
2-1/2	2.70 - 3.13	*402-0288 X --	5	6
3	3.25 - 3.50	**402-0350 X --	7	6
3 - 4	3.80 - 4.13	**402-0413 X --	7	6
4	4.25 - 4.50	402-0450 X --	10	6
4	4.50 - 4.80	402-0480 X --	10	6
4	4.74 - 5.45	402-0545 X --	10	6
6	6.50 - 6.63	402-0663 X --	10	4
6	6.63 - 6.90	402-0690 X --	10	4
6	6.84 - 7.60	402-0745 X --	10	4
8	8.50 - 8.63	402-0863 X --	12	4
8	8.63 - 9.05	402-0905 X --	13	4
8	8.99 - 9.79	402-0963 X --	13	4
10	10.60 - 10.75	402-1075 X --	14	3
10	10.75 - 11.10	402-1110 X --	14	3
10	11.10 - 11.40	402-1140 X --	14	3
10	11.00 - 12.25	402-1225 X --	14	3
12	12.75 - 13.20	402-1320 X --	16	3
12	12.75 - 13.50	402-1350 X --	16	3
12	13.10 - 14.38	402-1426 X --	16	2
12 - 14	14.00 - 15.20	402-1520 X --	23	1
14	C-905 15.30	402-1530 X --	23	1
14 - 16	15.20 - 16.60	402-1660 X --	23	1
16	C-905 17.40	402-1740 X --	25	1
16 - 18	17.30 - 18.88	402-1888 X --	25	1
18	C-905 19.50	402-1950 X --	26	1
18 - 20	19.00 - 20.50	402-2050 X --	26	1
18 - 20	20.50 - 21.50	402-2125 X --	27	1
20	C-905 21.60	402-2160 X --	28	1
20	21.35 - 22.60	402-2260 X --	28	1
20	22.50 - 23.70	402-2370 X --	28	1
24	23.75 - 25.25	402-2525 X --	29	1
24	C-905 25.80	402-2580 X --	31	1
24	25.50 - 26.50	402-2650 X --	31	1

NOTE: Sizes 15.20 and larger utilize two (2) wide straps in lieu of the forged strap.



408 Coated Double Strap Service Saddle with electro galvanized straps available, contact the Inside Sales Team.

### How To Order

1. Determine O.D. of pipe, outlet size and thread type.
2. Select desired saddle type and tap order code.
3. Look under saddle listing to determine order number. Add tap code after base catalog number.

EXAMPLE: For 6" C.I. Pipe with O.D. of 6.90 with 1" IP thread, order: 402-0745 x 08IP

OUTLET SIZES	TAP CODES IP	TAP CODES CC
1/2"	04	--
3/4"	06	07
1"	08	09
1-1/4"	10	11
1-1/2"	12	13
2"	14	15
2-1/2"	16	--

## 402 **Double Strap Service Saddle** **Typical Specifications**

### 402 **Double Strap Service Saddle**

Service saddles for pipe sizes 2" through 12" shall have a wrap around design with ductile iron body, 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 402 or approved equal.

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

400 Series Service Saddles are ANSI/NSF Standard 61 Certified.

## 402 **Double Strap Service Saddle** **Material Specifications**

### 402 **Double Strap Service Saddle**

Service Saddles are constructed of ductile iron with shop primer coating and have corrosion resistant AISI C-1018 steel, zinc plated with dichromate seal. These saddles meet or exceed AWWA C-800 Standards for service line fittings.

**BODY CASTING:** Wrap around design of Ductile Iron ASTM A-536. Body has a gasket cavity, which provides internal as well as external gasket retention.

**GASKET:** Molded virgin rubber with a pressure activated hydro mechanical design. Gasket is bonded into a cavity for internal and external retention. Gasket is suitable for water salt solutions, mild acids, bases, and sewage.

**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 zinc plated steel straps for additional stability and strength.

**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.

## Service Saddle Installation Instructions

1. Thoroughly clean pipe surface.
2. Check pipe surface for irregularities.
3. Lubricate face of gasket.
4. Mount saddle body in proper position on pipe.
5. Install strap(s) or bolts(s).
6. Check to make certain gasket is in proper position and not in waterway.
7. Tighten nut(s) to following torque values:

<b><u>Bolt Size</u></b>	<b><u>Steel &amp; Rigid Pipe</u></b>	<b><u>PVC &amp; Polyethylene Pipe</u></b> HDPE Approx. - subject to temperature and line pressure
1/2"	45 - 50 Ft. Lbs.	45 - 50 Ft. Lbs.
5/8"	70 - 75 Ft. Lbs.	45 - 50 Ft. Lbs.!