JCM Service Saddles

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

JCM 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 JCM 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.



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.

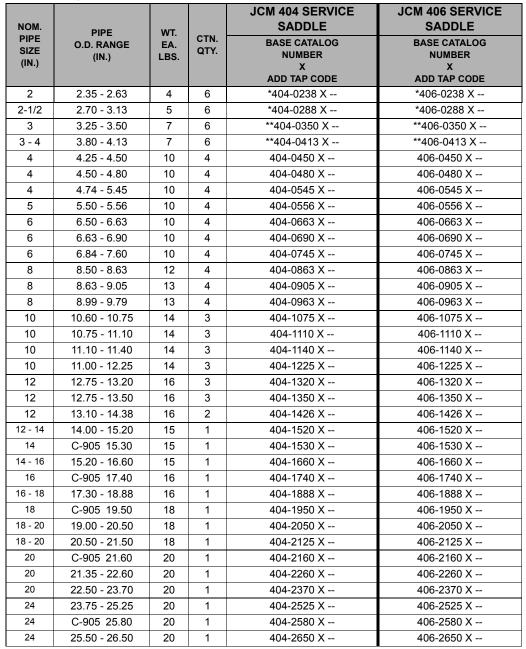
Finish: Models 401, 402, 403, 404 - Standard Shop Coat Primer: Heavy coat of corrosion resistant metal primer.

Models 405, 406 - Fusion Plastic Coating: fusion bonded, high density blue plastic coating, 12 mils mini-

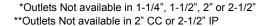
mum thickness with a dielectric strength of over 12,000 volts.

JCM 404 Service Saddle with Double Stainless Steel Straps JCM 406 Coated Service Saddle with Double Stainless Steel Strap

The JCM 404 and 406 utilize the heavy duty double strap saddle body with two wide stainless steel straps. The extra wide straps provide a broad supportive stance on the pipe. The JCM 404 is furnished with a corrosion resistance shop coat primer. The model 406 is fusion coated with a heavy resilient plastic coating.



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	





JCM Coated Service Saddle with Double Stainless Steel Straps Typical Specifications

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 are ANSI/NSF Standard 61 Certified.



JCM 406 Coated Service Saddle with Double Stainless Steel Straps Material Specifications

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 AWWA C-800 standards for service line fittings.

BODY CASTING: Wrap around design of Ductile Iron, ASTM A-536. Body has a gasket cav-

ity, 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

suitable for water, salt solutions, mild acids, bases, and sewage.

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 cor-

rosion resistance.

BOLTS, NUTS

WASHERS: Stainless steel, 18-8 Type 304, passivated for corrosion resistance. Coated

with antiseize compound to reduce friction and galling.

COATING: Casting is coated with fusion bonded high density blue plastic, 12 mils min-

imum thickness, with a dielectric strength of over 12,000 volts. Water absorption less than .20% (less than nylon) prevents undercutting and blis-

tering.

PRESSURE

RATING: Working pressure is 250 PSI hydrostatic. Contact factory if higher working

pressure is required.

SIZES: See catalog.



JCM Thermoplastic Powder Coating Working Characteristics

Performance Properties

Flexibility (conical mandrel) 1/8 inch, no cracks (ASTM D 522) (Greater than 32%) Adhesion >1,000 psi / (5A)

(ASTM D 4541)/(ASTM D 3359) (Scored and unscored/no peeling or removal)

Impact Resistance >384 in./lbs.

(ASTM D 2794) Hardness 48

(ASTM D 2240) (Shore D)

Taber Abrasion 90 (mg loss, CS10 wheel)* (ASTM D 4060) 100 (mg loss, CS17 wheel)*

*(1,000 g load/1,000 cycles)

Chemical and Durability Properties

Solvent and Chemical Resistance Generally resistant to most acids, alkalies, oils and solvents. Not suitable

for hydrocarbon service other than intermittent contact or splash zones.

Salt Spray Resistance (ASTM B-117) >4,000 hours

Humidity Resistance (ASTM D-2247) No blistering or loss of gloss after 1,000 hours.

Other Properties

Smoke Development (ASTM E-84) 10 Flame Spread Index

10 Smoke Developed Index

Chip Resistance (ASTM D3170) 8A*

Dielectric Breakdown (ASTM D149) 893+/- 153 volts/mil**

Volume Resistivity (ASTM D 257) 4.67 x 10 13 ohms/cm. (insulator)

* Data obtained using 13 mil coatings

Limitations - Not suitable for hydrocarbon service.

Normal Service: -20° F to 160° F Immersion Service: <125° F

Special Approvals - Meets ANSI/NSF Standard 61 for potable water service. Classified by UL (Underwriters Laboratories, Inc.)

^{**} Data obtained using 20 mil natural coatings. Addition of pigments may cause varying results.



JCM 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:

Bolt <u>Size</u>	Steel & Rigid Pipe	PVC & Polyethylene Pipe 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.