



JCM Industries, Inc.

**Fittings & Fabrications
for Repair - Connection - Branching
All Types and Sizes of Pipe**

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JCM 425 Service and Repair Saddle

JCM 425 Service and Repair Saddle for tapping and repair applications on Concrete Steel Cylinder Pipe, Reinforced Concrete Pipe, Large Diameter Cast Iron and Ductile Iron Pipe

The JCM 425 Service Saddle is specifically designed for safe, dependable branching & repair applications on taps into Concrete Steel Cylinder Pipe, Concrete Coated Steel Pipe and large diameter Cast and Ductile Iron Pipe with elevated pressures. For tapping applications, the threaded outlet is available in sizes 3/4" through 2" IP or CC and provides critical reinforcement to branch connections for service lines. These saddles can also be used to install air and vacuum valves, pitot tubes, injection lines and other equipment. As a repair saddle, the JCM 425 provides an immediate repair to pipelines with small diameter damage - operating at higher pressure ratings.

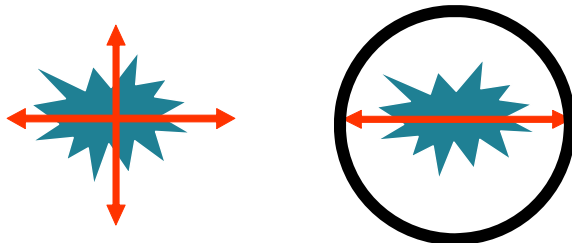
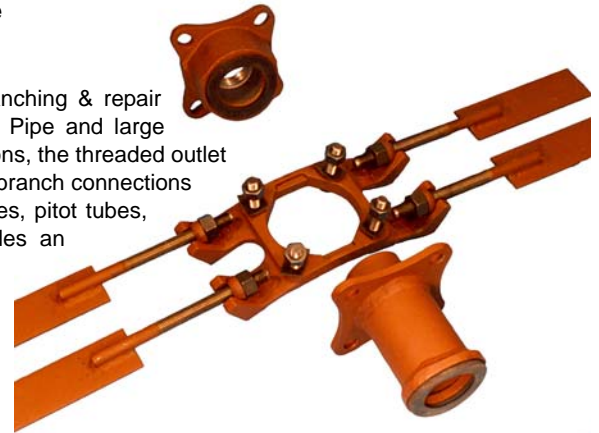
The significant advantages this saddle offers include:

As a tapping and repair saddle, the JCM 425's separate body provides critical reinforcement of pipe prior to removal of the prestress/pretension wire from the outlet area. This is a required feature to maintain pipe integrity, especially on larger pipe, when performing small taps or repairing minor damage.

The JCM 425 includes a separate bolt-in outlet "gland" that is independently bolted to the saddle. This separate installation ensures that bolt torque energy is centralized to the gasket at the tap/repair point and not diluted by sharing energy around the entire circumference of the pipe. This self-reliant gland assists in maintaining higher working pressure service.

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

For Concrete Cylinder Pipe the adjustable outlet accommodates variation in concrete coating from no coating to a thickness of 1-1/8". Special outlets are available for embedded cylinder pipe and thicker coatings of concrete.



Suitable for these types of damage:



Simple and fast repair.
The damaged area falls within the "Inside Diameter (I.D.) of the gasket" trapping (encompassing) the hole within the gasket area. Repair Sleeve gasket loads faster and provides greater gasket compression on the pipe.

Typical Repair Application:

**Temporary/Permanent
Especially Recommended for
Large Diameter Pipe
High Working Pressures**

**Splits
Holes
Punctures
Corroded Areas
Gouges**

For application parameters,
contact JCM Engineered and
Technical Sales
800-527-8482 or 903-832-2581

MATERIAL SPECIFICATIONS - JCM 425 SERVICE SADDLE FOR CONCRETE STEEL CYLINDER PIPE

- Body, Outlet, Washers:** Ductile Iron ASTM A536
Outlet Bolts: Corrosion resistant, high strength low alloy (AWWA C-111, ANSI A21.11)
Straps: Steel per ASTM A-36. Optional Stainless Steel 18-8 Type 304.
Gasket: Buna-N compounded for use with water, salt solutions, mild acids, bases, gas.
Coating: Heavy coating of corrosion resistant shop coat primer. Optional Fusion Epoxy Coating available.

425 SERVICE SADDLE FOR CONCRETE STEEL CYLINDER PIPE

NOM. PIPE SIZE (IN.)	CONCRETE O.D. RANGE (IN.)	STEEL CYLINDER O.D.* RANGE (IN.)	CATALOG NUMBER X TAP CODE	APPROX. WT. EA. (LBS.)
16	19.25 - 20.15	17.25 - 20.15	425-2015 X --	50
18	21.75 - 22.75	19.50 - 22.75	425-2275 X --	50
20	23.64 - 24.65	21.70 - 24.65	425-2465 X --	50
24	27.62 - 29.15	25.75 - 29.15	425-2915 X --	50
30	33.88 - 35.75	31.88 - 35.75	425-3575 X --	60
36	39.75 - 41.00	37.75 - 41.00	425-4100 X --	70
36	41.50 - 43.00	40.50 - 43.00	425-4300 X --	70
42	45.75 - 47.25	43.75 - 47.25	425-4725 X --	85
42	48.00 - 49.50	46.00 - 49.50	425-4950 X --	85
48	51.50 - 53.00	49.50 - 53.00	425-5300 X --	100
48	55.38 - 56.50	53.40 - 56.50	425-5650 X --	100

*Longer outlet bolts are required for making taps on pipe with less than 1/4" coating
 For Cast Iron or Ductile Iron application - use Concrete O.D. Range to order - with longer bolts
 Larger Sizes Available in Custom Fabrication. Contact JCM Industries for information.
 JCM 400 Series Saddles are ANSI/NSF Standard 61, Annex G and ANSI/NSF 372 Certified.



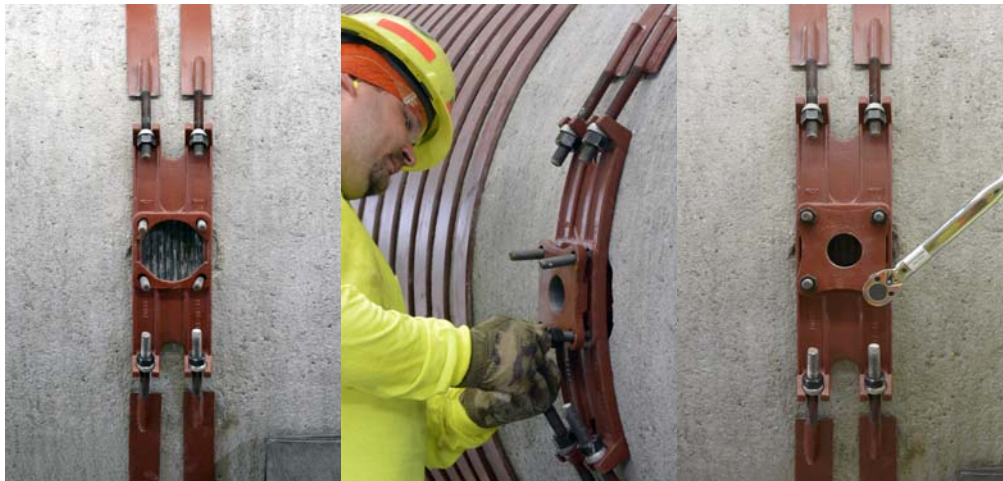
For coating thickness of 1-1/8" or less.



For coating thickness of over 1-1/8".
 Outlet for Embedded Cylinder Pipe.
 Prices upon request.

OUTLET TAP CODES

OUTLET SIZE	IP THREAD	CC THREAD
3/4"	06	07
1"	08	09
1-1/4"	10	11
1-1/2"	12	13
2"	14	15



Separate Saddle Body

Separate Gland

Separate Gland Bolting

Typical Application:
 Repair
 Temporary/Permanent
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 High Working Pressures*

Holes
 Punctures
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