



Pipe Fittings & Fabrications for Industrial Service

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JCM Service Saddles for Industrial Service



JCM 402 Double Strap Service Saddle



**JCM 404 Service Saddle with
Double Stainless Steel Straps**

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 are an excellent application for drain ports and eliminate problems common to direct taps, such as leaking threads or split pipe, and reinforces the critical connection

JCM Service Saddles offer application critical features that enable the fitting to perform to 100% capacity:

Massive Ductile Iron Saddle Body provides strength and mass for long term service. The wrap around design, wide skirt and wide straps support and reinforce the pipe while providing excellent stability of the saddle on the pipe.

Broad, Pressure Activated Gasket furnishes a wide, fluid tight seal around the outlet area. Measured for optimum durometer, the gasket is soft enough to conform to the pipe and surface irregularities, and is of a hardness to withstand high working pressures. The gasket is molded with a feathered, hydromechanical lip that lies smoothly on the pipe and increases sealing ability with increased working pressure.

Recess Groove Capture Gasket and lowers the saddle profile on the pipe. The gasket groove traps the gasket both internally and externally and prevents gasket displacement under harsh pressure conditions, while the low profile of the saddle body on the pipe captures the gasket with the strong, ductile body.

Double Strap Design provides a wide stance on the pipe to support the pipe wall and bear the burden of the connection. With the two, wide straps, the load is spread over a large area of pipe surface and prevents undue stress on the pipe at the tap location. The saddle design features **Closed, Canted Ears** for the bolting system the provide extra protection and maximum strap bearing.

Optional Stainless Steel Straps (JCM Model 404) provide additional corrosion resistance and a broader "load" area preventing damage or failure due to "point" loading.

JCM Service Saddles - Double Strap
JCM 402 Double Strap Service Saddle
JCM 404 Service Saddle - Double Stainless Steel Straps

The JCM 402 and 404 utilize the heavy duty double strap saddle body with corrosion resistant shop coat primer. The 402 is furnished with two electro galvanized straps sizes 2" (50mm) -12" (300mm), on sizes 15.20 and larger, the 402 incorporates two fabricated, wide electro galvanized steel straps. The 404 is furnished with two wide stainless steel straps.



Typical Applications:

Branch Line
Air Valves
Service Connection

Monitors
Vents or Bleeders
Flow Sensors

NOMINAL PIPE SIZE		PIPE O.D. RANGE (IN.)	WT. EA. LBS.	CTN. QTY.	JCM 402 SERVICE SADDLE			JCM 404 SERVICE SADDLE		
IN	MM				CATALOG NUMBER X ADD TAP CODE	3/4" 1"	1-1/4" 1-1/2" 2" 2-1/2"	CATALOG NUMBER X ADD TAP CODE	3/4" 1"	1-1/4" 1-1/2" 2" 2-1/2"
2	50	2.35 - 2.63	4	6	*402-0238 X --	•	N/A	*404-0238 X --	•	N/A
2-1/2	65	2.70 - 3.13	5	6	*402-0288 X --	•	N/A	*404-0288 X --	•	N/A
3	80	3.25 - 3.50	7	6	**402-0350 X --	•	•	**404-0350 X --	•	•
3 - 4	80 - 100	3.80 - 4.13	7	6	**402-0413 X --	•	•	**404-0413 X --	•	•
4	100	4.25 - 4.50	10	4	402-0450 X --	•	•	404-0450 X --	•	•
4	100	4.50 - 4.80	10	4	402-0480 X --	•	•	404-0480 X --	•	•
4	100	4.74 - 5.45	10	4	402-0545 X --	•	•	404-0545 X --	•	•
5	125	5.50 - 5.56	10	4	402-0556 X --	N/A	•	404-0556 X --	•	•
6	150	6.50 - 6.63	10	4	402-0663 X --	•	•	404-0663 X --	•	•
6	150	6.63 - 6.90	10	4	402-0690 X --	•	•	404-0690 X --	•	•
6	150	6.84 - 7.60	10	4	402-0745 X --	•	•	404-0745 X --	•	•
8	200	8.50 - 8.63	12	4	402-0863 X --	•	•	404-0863 X --	•	•
8	200	8.63 - 9.05	13	4	402-0905 X --	•	•	404-0905 X --	•	•
10	250	10.60 - 10.75	14	3	402-1075 X --	•	•	404-1075 X --	•	•
10	250	10.75 - 11.10	14	3	402-1110 X --	•	•	404-1110 X --	•	•
10	250	11.10 - 11.40	14	3	402-1140 X --	•	•	404-1140 X --	•	•
12	300	12.75 - 13.20	16	3	402-1320 X --	•	•	404-1320 X --	•	•
12	300	12.75 - 13.50	16	3	402-1350 X --	•	•	404-1350 X --	•	•
12 - 14	300 - 350	14.00 - 15.20	15	1	402-1520 X --	•	•	404-1520 X --	•	•
14	350	C-905 15.30	15	1	402-1530 X --	•	•	404-1530 X --	•	•
14 - 16	350 - 400	15.20 - 16.60	15	1	402-1660 X --	•	•	404-1660 X --	•	•
16	400	C-905 17.40	16	1	402-1740 X --	•	•	404-1740 X --	•	•
16 - 18	400 - 450	17.30 - 18.88	16	1	402-1888 X --	•	•	404-1888 X --	•	•
18	450	C-905 19.50	18	1	402-1950 X --	•	•	404-1950 X --	•	•
18 - 20	450 - 500	20.50 - 21.50	18	1	402-2125 X --	•	•	404-2125 X --	•	•
20	500	C-905 21.60	20	1	402-2160 X --	•	•	404-2160 X --	•	•
20	500	21.35 - 22.60	20	1	402-2260 X --	•	•	404-2260 X --	•	•
24	600	23.75 - 25.25	20	1	402-2525 X --	•	•	404-2525 X --	•	•
24	600	C-905 25.80	20	1	402-2580 X --	•	•	404-2580 X --	•	•
24	600	25.50 - 26.50	20	1	402-2650 X --	•	•	404-2650 X --	•	•

*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

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	--

MATERIAL SPECIFICATIONS:

Body: Ductile Iron ASTM A536
Straps: **Models 402, 408** - Electro Galvanized Steel; **Models 404, 406** - Bands, Bolts, Nuts and Washers are 18-8 Type 304 Stainless Steel.
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.
Finish: **Models 402, 404** - Standard Shop Coat Primer: Heavy coat of corrosion resistant metal primer. **Models 406, 408** - Fusion Plastic Coating: fusion bonded, high density blue plastic coating, 12 mils minimum thickness with a dielectric strength of over 12,000 volts.

Conversion of U.S./Metric dimensions are approximate; application pipe diameter and range to be verified by the end user.