



Pipe Fittings & Fabrications for Industrial Service

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JCM Universal Clamp Couplings for Industrial Service

Safety Factor, Availability and Material Options for Your Application

JCM 101 Universal Clamp Couplings JCM 103 Tapped Universal Clamp Couplings

For immediate repair, temporary or permanent, of breaks, cracks, splits, corroded areas, pin holes and similar types of pipeline damage. The full circumferential gasket provides a fluid tight seal on the full circumference of the pipe preventing leakage. The stainless steel band conforms to the contour of the pipe and provides gasket compression to flat and uneven pipe exteriors. Heavy duty bolting unit provides an efficient transfer of bolt torque energy to the stainless band and gasket to seal leaks and damage immediately. JCM Universal Clamp Couplings are available for emergency shipment in a variety of material combinations and sizes for specific applications. Custom sizes and ranges are available for immediate delivery. JCM Universal Clamp Couplings working pressure capabilities are directly related to the parameters of the application; for specific product recommendation and submittal, contact JCM Engineered and Technical Sales Team.



Heavy Duty Bolting Lug Unit - Substantial high-strength, low alloy ductile iron lugs provide strength and weight to withstand high bolt torques for greatest gasket compression. Specially balanced, low profile lug design ensures engagement of the clamp with efficient transfer of bolt torque energy from the lug to the gasket. Mutually supporting sliding fingers aid bolt alignment and inhibits distortion during tightening. Oval neck track bolts securely catch in the canted ears and eliminate turning or rotation during tightening.

Heavy Gauge Stainless Steel Band - Maximum thickness of stainless steel band provides full gasket compression on the circumference of the pipe.

Positive Attachment of Band to Lug - Positive attachment of the heavy stainless steel band to the lug unit is accomplished with mechanical compression of the lug and calculated weld points. This prevents band pull out during or after installation. **Drop-in, Swing Away Bolts** - Eases installation with the bolt nut and washer intact with no loose parts. Independent bolts enables simple replacement should damage occur.

Thick, Gridded Gasket - 1/4" thick gasket (sizes 3" and larger) conforms to the pipe wall and fills surface pits and voids to assist sealing on irregular pipe surfaces. **Molded In Stainless Steel Bridge Plate** - blocks pinched gasket problems associated with glued-on plates, provides an even surface for ease of installation and full stainless steel encirclement protection.



JCM Universal Clamp Couplings are suitable for: chemical and acid lines, air/vacuum lines, natural gas (see JCM 121 Gas Repair Clamp, JCM 123 Gas Service Clamp - USDOT 192), cooling water, methane, potable and wastewater, slurry, process and other line contents. Gasket materials readily available include: SBR, Buna-N, EPDM, Hypalon and others upon request. Provide content information to JCM representatives for application recommendation. Advise JCM representatives of any possible line solids or abrasives within the line content.

Suitable for these types of damage:



JCM Universal Clamp Couplings For Industrial Service

JCM 101 Universal Clamp Couplings
JCM 103 Tapped Outlets Clamp - threaded outlets 3/4" - 2"



For submittal, provide the following information:

- Type of pipe
- Size/Outside Diameter of Pipe
- Type and Size of Damage
- Line Content and Temperature
- Working and Test Pressure Requirements
- Environmental concerns, spacial or limited access information

Specify Repair And Service Clamp Order Number:

Model - Clamp Number - Width

For Model 101 Clamp for 6" (150mm) C-900 PVC - 6.90 O.D., 12" wide,
Specify: 101-0690-12
For JCM 103 Tapping Outlet Clamp, indicate type and size of outlet

Typical Application:
Repair
Temporary/Permanent

Breaks, Cracks
Splits, Holes
Corroded Areas, Pin Holes
Connection of Plain End Pipe

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

NOMINAL PIPE SIZE		PIPE O.D. RANGE		CLAMP NUMBER	Clamp Width - Approximate Weight						
					6"	7"	12"	15"	18"	24"	30"
IN	MM	IN	MM		Lbs.#	Lbs.#	Lbs.#	Lbs.#	Lbs.#	Lbs.#	Lbs.#
1-1/2	40	1.88 - 2.15	48 - 54	0190	•		•				
					7#		14#				
2 - 2-1/2	50 65	2.35 - 2.63 2.70 - 3.13	60 - 67 68 - 79	0238 0275	•	•	•	•			
					8#	9#	15#	19#			
3	80	3.46 - 3.70 3.73 - 4.13	88 - 93 94 - 105	0350 0400	•	•	•	•			
					8#	10#	16#	20#			
4	100	4.45 - 4.75 4.74 - 5.14 4.95 - 5.35	113 - 120 120 - 130 125 - 135	0450 0480 0500	•	•	•	•	•	•	•
					9#	11#	18#	22#	27#	36#	44#
6	150	5.95 - 6.35 6.56 - 6.96 6.85 - 7.25	151 - 161 166 - 176 174 - 184	0600 0663 0690	•	•	•	•	•	•	•
					10#	12#	19#	24#	29#	38#	48#
8	200	7.95 - 8.35 8.54 - 8.94 8.99 - 9.39 9.90 - 10.30	201 - 212 216 - 227 228 - 238 251 - 261	0800 0863 0905 1000	•	•	•	•	•	•	•
					11#	13#	21#	27#	32#	42#	53#
10	250	10.60 - 11.00 11.04 - 11.44 12.00 - 12.40	269 - 279 280 - 290 304 - 315	1075 1110 1200		•	•	•	•	•	•
						19#	36#	39#	52#	70#	78#
12	300	12.60 - 13.02 13.10 - 13.50 14.00 - 14.40	320 - 330 332 - 342 355 - 365	1275 1320 1400		•	•	•	•	•	•
						20#	37#	40#	52#	74#	82#
Number of Bolts					2	2	4	4	6	8	10

*Single Band Clamps provide approximately .40 working range. Other sizes and ranges available upon request.
Conversion of U.S./Metric dimensions are approximate; application pipe diameter and range to be verified by the end user. Clamps do not prevent lateral movement of pipe. For applications in which the pipe may move out of the clamp, proper anchorage of the pipe must be provided. Gas clamp series 120 and 150 not for repair of Polyethylene Gas Pipe. Suitable for reshaping and marking squeeze off locations.