



# Pipe Fittings & Fabrications for Industrial Service

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## JCM Extended Range Universal Clamp Couplings for Industrial Service

### JCM 102 Universal Clamp Couplings - Extended Range JCM 104 Tapped Universal Clamp Couplings - Extended Range

Universal clamp couplings with multi-band construction fit a larger range of pipe within the same nominal pipe size. Extended range/multi-band clamps are designed to accommodate working characteristics of large diameter pipe. In these repair applications, there are several factors to be considered to maintain pipe integrity and return to 100% service capacity. Critical factors include: size and type of pipe, severity of damage, working pressure or service requirements, location of repair and time factor. JCM Universal Clamp Couplings are available for emergency shipment in a variety of material combinations and sizes for specific applications. 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.



#### Achieve Successful Repairs through...

**Heavy Duty Bolting Lug Units** - 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 efficient transfer of bolt torque energy from the lug to the gasket. Mutually supporting sliding fingers prevent distortion during tightening. Oval neck track bolts are secured in the canted ears and inhibit turning or rotation during tightening.

**Addressing Increased Dynamics of Repairs** - For nominal pipe sizes 10" and larger, the changing dynamics of larger circumference, pressure forces and available bolt torque requires more robust materials. JCM Extended Range Clamps 10" larger implement a larger, more massive bolting lug unit that incorporates a 3/4" bolt and thicker gauge stainless steel band.  
**Heavy Gauge Stainless Steel Band** - Maximum thickness of stainless steel band provides full, even gasket compression on the full circumference of the pipe. For pipe sizes 10" and larger (with 3/4" bolts) clamps have a **minimum** material thickness of 17 gauge stainless steel.



**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 preventing band pull out during or after installation. **Drop-in, Swing Away Bolts** - Eases installation with the bolt, nut and washer remain 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 (as noted), 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 Extended Range Universal Clamp Couplings For Industrial Service



## JCM 102 Universal Clamp Couplings JCM 104 Tapped Universal Clamp Couplings

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 102 Clamp for 6" (150mm) C-900 PVC - 6.90 O.D., 12" wide,

Specify: 102-0690-12

For JCM 104 Tapped 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.#
4	100	4.44 - 5.24 4.74 - 5.57	112 - 133 120 - 141	0450	•	•	•	•	•	•	•
				0480	16#	20#	32#	40#	48#	64#	80#
6	150	6.62 - 7.42 6.84 - 7.64	168 - 188 173 - 194	0663	•	•	•	•	•	•	•
				0690	16#	20#	32#	40#	48#	64#	80#
8	200	8.62 - 9.42 8.99 - 9.79	218 - 239 228 - 248	0863	•	•	•	•	•	•	•
				0905	17#	21#	34#	43#	51#	68#	85#
10	250	10.72 - 11.72 11.04 - 12.24	272 - 298 280 - 310	1075			•		•	•	•
				1110			53#		80#	106#	132#
12	300	12.72 - 13.92 13.14 - 14.34	323 - 353 333 - 364	1275			•		•	•	•
				1320			37#		52#	74#	80#
14	350	15.20 - 16.20	386 - 414	1530			•		•	•	•
							58#		87#	106#	145#
14 - 16	350 - 400	16.00 - 17.00 17.20 - 18.20	406 - 431 436 - 462	1600			•		•	•	•
				1740			59#		89#	108#	148#
16 - 18	400 - 450	18.40 - 19.40	467 - 492	1846			•		•	•	•
							62#		95#	124#	158#
18 - 20	450 - 500	19.40 - 20.40 20.40 - 21.40	492 - 518 518 - 543	1950			•		•	•	•
				2050			63#		95#	126#	158#
20 - 22	500 - 550	21.40 - 22.40 22.50 - 23.60	543 - 569 571 - 599	2160			•		•	•	•
				2260			67#		100#	134#	168#
24	600	23.80 - 25.00 25.50 - 26.70	604 - 635 647 - 678	2400			•		•	•	•
				2580			93#		140#	186#	233#
<b>Number of Bolts</b>					<b>4</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>12</b>	<b>16</b>	<b>20</b>

\*Double Band Clamps provide approximately 1.00" range. Multi Band Clamps vary. Custom engineered 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.