



JCM 111 FULL-REPAIR CLAMPS

JCM 111 Full-Repair clamps are a fast economical means of permanently repairing steel pipe with extensive corrosion, splits, punctures or pin holes. These clamps have a heavy, full circumferential Buna-N gasket with a hardened recessed armor. This provides extra sealing capability for heavily damaged pipe and pipe with reduced diameter due to corrosion.



Steel Pipe Sizes - IPS

Copper Tubes Sizes - CTS

NOMINAL PIPE SIZE	PIPE O. D. (IN.)	TYPE OF PIPE	WIDTH (IN.)	CLAMP NUMBER	WT. EA. (LBS.)	CTN. QTY.
1/2"	0.84	IPS	3	111-0084-3	.7	20
			6	111-0084-6	1.4	10
3/4"	1.05	IPS	3	111-0105-3	.7	16
			6	111-0105-6	1.4	8
	0.88	CTS	3	111-0088-3	.7	16
			6	111-0088-6	1.4	8
1"	1.32	IPS	3	111-0132-3	.8	16
			6	111-0132-6	1.5	8
	1.13	CTS	3	111-0113-3	.8	16
			6	111-0113-6	1.5	8
1-1/4"	1.66	IPS	3	111-0166-3	.9	12
			6	111-0166-6	1.8	6
1-1/2"	1.63	CTS	3	111-0166-3	.9	12
			6	111-0166-6	1.8	6
	1.90	IPS	3	111-0190-3	1.3	12
			6	111-0190-6	2.6	6
2"	2.38	IPS	3	111-0238-3	1.3	8
			6	111-0238-6	2.7	4

MATERIAL SPECIFICATIONS

JCM 111 FULL-REPAIR CLAMP

Lug: Ductile Iron ASTM A-536
Gasket: Buna-N
Band: Stainless Steel 18-8 Type 304
Fasteners: Electro-galvanized Steel. Stainless Steel available.



Pipe Outside Diameter Guide

SMALL DIAMETER PIPE SIZES

NOMINAL PIPE SIZE (INCHES)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2
COPPER TUBING	.63	.88	1.13	1.38	1.63	2.13	2.63
STEEL & PLASTIC PIPE	.84	1.05	1.32	1.66	1.90	2.38	2.88

IMPORTANT: This Pipe O.D. Guide is furnished for your convenience and is based on the latest pipe standards and information supplied by pipe manufacturers. Due to occasional changes and variances in outside diameters, the pipe O.D. should always be verified before ordering fittings.

STANDARD PRESSURE PIPE SIZES

NOMINAL PIPE SIZE (INCHES)	3	4	5	6	8	10	12	14	15	16	18	20	24	30
COPPER TUBING	3.13	4.13	5.13	6.13										
STEEL & PLASTIC PIPE (SDR 26,21 & SCHEDULE)	3.50	4.50	5.56	6.63	8.63	10.75	12.75	14.00		16.00	18.00	20.00	24.00	30.00
PLASTIC IRRIGATION PIPE (PIP)		4.13		6.14	8.16	10.20	12.24		15.30		18.70	22.05	24.80	
PLASTIC SEWER PIPE (SDR 35)		4.22		6.28	8.40	10.50	12.50		15.30		18.70		24.80	
PLASTIC (PVC) AWWA C-900/C-905/C-909		4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	
POLYETHYLENE PIPE (IPS SIZE)	3.50	4.50		6.63	8.63	10.75	12.75	14.00		16.00	18.00	20.00	24.00	30.00
POLYETHYLENE PIPE (DIP SIZE)		4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	32.00

CAST IRON	DUCTILE IRON PIPE	3.96	4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	32.00
	CLASS 100 - 250 AWWA	3.96	4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	32.00
	CLASS A AWWA PIT CAST	3.80	4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	31.74
	CLASS B AWWA PIT CAST	3.96	5.00		7.10	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	32.00
	CLASS C - D AWWA PIT CAST	3.96	5.00		7.10	9.30	11.40	13.50	15.65		17.80	19.92	22.06	26.32	

ABESTOS CEMENT PIPE	Class 100	MACHINED END	3.74	4.64		6.91	9.11	11.24*	13.44*	15.07		17.15	19.90	22.12	26.48	33.12	
		FLINTITE ROUGH BARREL	3.94	4.90		7.13	9.33	11.30	13.42	15.45		17.60					
		FLUID-TITE ROUGH BARREL	3.93	5.05		7.16	9.32	11.46	13.70	15.36		17.50	20.44	22.50	27.17		
		PERMAFLEX ROUGH BARREL		4.84		7.15	9.35	11.47	13.74	15.55		17.55	20.50	22.70	27.15		
		RING-TITE ROUGH BARREL	3.95	4.92		7.19	9.39	11.47	13.74	15.51		17.65	20.44	22.68	27.12	33.80	
		MIN. STD. ROUGH BARREL		4.79		7.05	9.22	11.25	13.37	15.36		17.50					
		MAX. STD. ROUGH BARREL		5.26		7.40	9.57	11.77	14.04	15.80		17.94					
	Class 150	MACHINED END	3.84	4.81		6.91	9.11	11.66	13.92	16.22		18.46	20.94	23.28	27.96	35.00	
		FLINTITE ROUGH BARREL	4.40	5.06		7.13	9.33	11.88	14.14	16.48		18.72					
		FLUID-TITE ROUGH BARREL	4.03	5.14		7.12	9.32	11.85	14.11	16.41		18.65	21.20	23.54	28.22		
		PERMAFLEX ROUGH BARREL		5.00		7.20	9.40	11.92	14.20	16.50		18.75	21.30	23.64	28.32		
		RING-TITE ROUGH BARREL	4.13	5.07		7.17	9.37	11.92	14.18	16.48		18.72	21.30	23.64	28.32	35.42	
		MIN. STD. ROUGH BARREL		4.97		7.07	9.27	11.82	14.08	16.38		18.62					
		MAX. STD. ROUGH BARREL		5.32		7.37	9.62	12.12	14.38	16.73		18.97					
	Class 200	MACHINED END	3.84	4.81		6.91	9.11	11.66	13.92	16.22		18.46	22.18	24.66	29.62	37.06	
		FLINTITE ROUGH BARREL	4.17	5.32		7.26	9.44	11.88	14.14	16.53		18.84					
		FLUID-TITE ROUGH BARREL	4.18	5.32		7.36	9.46	11.88	14.11	16.44		18.74					
		PERMAFLEX ROUGH BARREL		5.32		7.25	9.50	11.95	14.20	16.55		18.90	22.54	25.02	29.98		
		RING-TITE ROUGH BARREL	4.17	5.33		7.32	9.50	11.92	14.18	16.59		18.90	22.54	25.02	29.98	37.48	
		MIN. STD. ROUGH BARREL		5.22		7.26	9.39	11.77	14.03	16.44		18.74					
		MAX. STD. ROUGH BARREL		5.57		7.60	9.79	12.12	14.38	16.88		19.19					
	NOMINAL PIPE SIZE (INCHES)			3	4	5	6	8	10	12	14	15	16	18	20	24	30

* Flintite ME is 10.89 for 10" and 12.99 for 12" sizes.

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Brochure No. 111-0302

JCM 111 Full-Repair Clamp

1. Scrape and clean surface of pipe.
2. Back off nuts to end of bolts, but do not remove them. Open the clamp and remove the gasket.
3. Wrap gasket around pipe. Center gasket over leak.
4. Install clamp over gasket making certain armor is centered at open gap between lugs.
5. Tighten bolts to the following torque values:

3/8" bolts (sizes 1/2" - 1-1/4") to 25 ft. lbs.

7/16" bolts (sizes 1-1/2" - 2") to 35 ft. lbs.