JCM Introduces New "240 Optimum Range" Ductile Iron Couplings

3" through 12"

JCM Introduces the New "240 Optimum Range Coupling"

Full Range capability for pipe sizes 3" through 12"

Long middle ring allows for deeper pipe insertion and accommodates wide gaps between pipe ends

Reduces inventory - one coupling fits IPS PVC, C-900 PVC, Ductile Iron, Steel, Cast Iron and A/C Pipe classes 100, 150 and 200

Non-compromising design with maximum number of bolts for uniform tightening provides the engineered test and field proven service and reliability of the JCM Ductile Iron Coupling family

JCM welcomes a new addition, the "**240 Optimum Range Coupling**." This coupling provides a "super range" that fits all common types of pipe within a nominal size. These multi-range, all inclusive couplings eliminate the guesswork of unknown pipe diameters and which coupling size is needed. It also reduces stock and inventory costs, and downtime by always having a coupling that fits.

Pipe misalignments and deflections are overcome with the long middle ring and thick gasket system. The JCM 240 furnishes a wide gasket which conforms to pitted, corroded or irregular pipe surfaces and provides a positive seal on the circumference of the pipe. Assembled at the factory, the 240 can be easily installed without dismantling.

Heavy ductile iron castings, maximum quantity of bolts for uniform tightening and the longer middle ring provide the durability and reliability required of couplings. Simple and quick to install, the "240 Optimum Range Coupling" provides a watertight, permanent solution to joining various types of pipe within a nominal size. The generous range and longer middle ring join together to form a strong yet flexible joint between two pipe ends.

JCM 240 OPTIMUM RANGE DUCTILE IRON COUPLING

JCM Optimum Range Couplings provide a broad range that accommodates all common types of pipe within a nominal size. These include: IPS PVC, C-900 PVC, Ductile Iron, Steel, Cast Iron, Asbestos Cement Classes 100/150/200.

NOM. PIPE SIZE (IN.)	PIPE O.D. RANGE (IN.)	CATALOG NUMBER	SLEEVE LENGTH	NO. OF BOLTS	APPROX. WT. EA. (LBS.)
3	3.45 - 4.20	240-0420	10	3	26
4	4.40 - 5.50	240-0550	10	4	35
6	6.50 - 7.60	240-0760	10	5	46
8	8.55 - 9.60	240-0960	10	6	55
10	10.70 - 12.00	240-1200	10	8	71
12	12.70 - 14.30	240-1430	10	8	84

MATERIAL SPECIFICATIONS

Flanges: Ductile Iron Per ASTM A-536

Middle Ring: Ductile Iron Per ASTM A-536

Gaskets: Specially compounded new rubber polymer for superior shelf life and resistance to permanent set. Recommended for use on water, salt solutions, mild acids, bases and sewage.

Bolts: Corrosion resistant, high strength low alloy bolts and nuts per AWWA C-111, ANSI 21.11. Optional stainless steel 18-8 Type 304.

Coating: Corrosion resistant shop coat paint primer. Optional fusion applied epoxy coating per AWWA C-213.

JCM 200 Series Couplings are ANSI/NSF Standard 61 Certified.

JCM 240 Optimum Coupling
Typical Specification

JCM 240 Optimum Range Ductile Iron Coupling

Couplings for pipe sizes 3” - 12” shall be of ductile iron construction. Couplings shall be of the optimum range type to fit Steel, Cast Iron, Ductile Iron, PVC, HDPE, Asbestos Cement and other common types of pipe within a nominal size without modification. Coupling sleeve shall be minimum 10” in length with bolt quantities as follows:

Nominal Pipe Size	Number of Bolts
3	3
4	4
6	5
8	6
10	8
12	8

Ductile Iron Couplings shall be JCM 240 or approved equal.

JCM 200 Series Ductile Iron Couplings are ANSI/NSF Standard 61 Certified.

JCM 240 Optimum Coupling Material Specification

JCM 240 Optimum Range Ductile Iron Coupling

FLANGES: Ductile Iron per ASTM A-536

MIDDLE RING: Ductile Iron per ASTM A-536

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COATING: Corrosion resistant shop coat primer. Optional fusion applied epoxy coating per AWWA C-213.

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JCM 240 Optimum Ductile Iron Coupling Installation Instructions

1. Clean pipe surface of all dirt, rust, mud or loose scale from pipe ends. Inspect the pipe ends where gaskets will contact the pipe for any gouges, grooves, irregularities or imperfections that will interfere with the gasket seal. Measure the cleaned pipe diameter to confirm proper size of coupling for application. Inspection of the pipe's integrity for product application is the responsibility of the end user. ***TIP*** *Difficult to reach or cramped areas on the backside or underside of the pipe can be visually checked by using a mirror.*

2. Measure back on each pipe end one-half of the middle ring length plus two inches and place a reference mark. These marks will be a visual reference point for centering the middle ring over the joint. ***TIP*** *Couplings perform at optimal effectiveness when centered over joint area.*

3. Install follower rings, then gasket onto the pipe ends. **NOTE:** Flat side of the gasket face meets the follower ring, the tapered side inserts into the middle ring. ***TIP*** *To ease installation of the gaskets, pipe should be lubricated with water or soapy-water mixture. Alcohol may be added to water in freezing weather.* ***DO NOT*** *use pipe lubricant or grease based products to lubricate.*

4. Install middle ring on one pipe end. Insert other pipe end into middle ring and center the middle ring over the joint, between the reference marks.

5. Torque coupling bolts on opposite sides, using a star rotation pattern, drawing up the followers evenly until all bolts have been tightened to 75 foot pounds of torque.

   NOTES: On joints that do not permit centering of the coupling, the pipe ends must be inserted past the end of the gasket a minimum of one and one-half (1-1/2") inch.

   For applications with deflection of offset pipe ends, the pipe end must be inserted a minimum of one and one-half (1-1/2") inch past the end of the gasket after the deflection/offset has occurred. Do not exceed a recommended 4° of pipe deflection with the coupling without inspecting the centering and sealing of the gasket in the middle ring and follower ring. Excessive deflection will cause the gasket to improperly seal. **Lift the middle ring to insure that the gasket is evenly centered in the ends.**

   IMPORTANT: Standard couplings do not provide for axial pipe movement. In applications in which lateral pipe pull out may occur, pipe restraint must be provided. See fitting manufacturer recommendations for applications on High Density Polyethylene Pipe.

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JCM Industries, Inc. / P. O. Box 1220 / Nash, TX 75569-1220