

JCM Ductile Iron Couplings



IMPROVED

JCM OPTIMUM RANGE COUPLINGS 241 - 242

More Choice - Middle Ring Lengths 6" & 10"
More Versatility - Accommodates Larger Pipe Ranges
More Performance - Higher Working Pressures



JCM Optimum Range Couplings employ the mechanical compression joint principle to join two pieces of plain end pipe. This stress relieving flexible joint eliminates precise cutting and fitting in the field while providing for deflection, expansion-contraction, pipe settlement and a quick easy means of disassembling the system for maintenance.

JCM OPTIMUM RANGE DUCTILE IRON COUPLINGS OFFERS A NEW GASKET CONCEPT THAT DELIVERS SUPERIOR PERFORMANCE

- Larger range capabilities for fitting oversized, exotic & coated pipe diameters.
- Rated for 250 PSI working pressure
- Internal ribbed design increases sealing capability and grip on both low and high ranges of nominal pipe sizes.
- JCM's unique design for "stress relief" built into the gasket - eliminates gasket pinch in applications requiring offset, deflected and pipe settlement.

ONE COUPLING...

- ...replaces THREE or more standard couplings.
- ...does the job regardless of type or class, or if the pipe is over or undersized.
- ...fits All Cast Iron & Asbestos Cement Classes In 3" - 12"
- ...eliminates need for carrying two couplings or transition couplings.

MATERIAL SPECIFICATIONS - JCM 241, 242 OPTIMUM RANGE COUPLING

SLEEVE & FLANGES: Ductile Iron Per ASTM A536 65-45-12

GASKET: Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000.

Gasket temperature range -40°F to 212°F (-40°C - 100°C) Gasket suitable for water, salt solutions, mild acids, bases, and sewage.

BOLTS: 5/8" Corrosion resistant, high strength low alloy oval neck track head bolts per ASTM A242/ANSI 21.11/AWWA C111 and heavy hex nuts per A563 or equal. Optional Hardware: Stainless Steel 18-8 Type 304 or 316; Epoxy Coated Alloy Hardware, Powercron 590-534 black cationic electrocoat

FINISH: Corrosion resistant shop coat paint primer. Optional fusion applied epoxy coating per ANSI/AWWA C-213. Other coatings available upon request.

JCM Industries bolted couplings meet or exceed the ANSI/AWWA C-219 Standard as applicable.

JCM 241 Standard Length Optimum Range Ductile Iron Couplings

JCM 242 Long Length Optimum Range Ductile Iron Couplings



JCM “Optimum Range Coupling”

Full Range capability for pipe sizes 3” through 16”

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

Reduces inventory - one coupling fits SDR35, 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.

NOM. PIPE SIZE (IN.)	PIPE O.D. RANGE (IN.)	CATALOG NUMBER	SLEEVE LENGTH (IN.)	NO. OF BOLTS	APPROX. WT. EA. (LBS.)
3	3.45 - 4.20	241-0420	6	3	22
		242-0420	10	3	26
4	4.22 - 5.60	241-0550	6	4	30
		242-0550	10	4	35
6	6.28 - 7.60	241-0760	6	5	39
		242-0760	10	5	46
8	8.40 - 9.75	241-0960	6	6	47
		242-0960	10	6	55
10	10.50 - 12.12	241-1200	6	8	62
		242-1200	10	8	71
12	12.50 - 14.38	241-1430	6	8	71
		242-1430	10	8	84
14	15.05 - 16.93	242-1690	10	10	115
16	17.32 - 19.20	242-1920	10	11	118

MATERIAL SPECIFICATIONS - JCM 241, 242 OPTIMUM RANGE COUPLING

SLEEVE & FLANGES:	Ductile Iron Per ASTM A536 65-45-12
GASKETS:	Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Gasket temperature range -40°F to 212°F (-40°C - 100°C) Gasket suitable for water, salt solutions, mild acids, bases, and sewage.
BOLTS:	5/8" Corrosion resistant, high strength low alloy oval neck track head bolts per ASTM A242/ANSI 21.11/AWWA C111 and heavy hex nuts per A563 or equal. Optional Hardware: Stainless Steel 18-8 Type 304 or 316; Epoxy Coated Alloy Hardware, Powercron 590-534 black cationic electrocoat
FINISH:	Corrosion resistant shop coat paint primer. Optional fusion applied epoxy coating per ANSI/AWWA C-213. Other coatings available upon request.

JCM Industries bolted couplings meet or exceed the ANSI/AWWA C-219 Standard as applicable.

