

ROMAC INDUSTRIES, INC.

ROMAGRIP™ MECHANICAL JOINT RESTRAINING GLAND FOR STEEL AND DUCTILE IRON SIZE POLYVINYL CHLORIDE (PVC) PIPE 3 THROUGH 12 INCH

SUBMITTAL INFORMATION

USE	The Romac RomaGrip restraining gland is used for the restraint of mechanical joint valves, fittings, and fire hydrants in water transmission and fire protection lines. The RomaGrip replaces costly concrete thrust blocks, corrodible steel tie rods and clamps.
MATERIALS	
Gland	Ductile (nodular) iron, meeting or exceeding ASTM A 536, Grade 65-45-12.
Gaskets	A Romac DI / IPS combination gasket may be used on either DI or IPS size pipe. Gasket compounded for water and sewer in accordance with ASTM D 2000. A standard MJ gasket may be used with this fitting on C900 PVC pipe. An MJ X IPS transition gasket is used for IPS size pipe.
Restraining Bolt	7/8 –9 roll thread, Ductile (nodular) iron, meeting or exceeding ASTM A 536.
Restraining Lugs	Ductile (nodular) iron, meeting or exceeding ASTM A 536. Heat treated using a proprietary process.
Coating	Shop coat applied to casting for corrosion protection in transit.

PERFORMANCE

PIPE MATERIAL	PIPE SIZE	WORKING PRESSURE	RECOMMENDED TORQUE FOR T-BOLTS	RECOMMENDED TORQUE FOR RESTRAINING BOLTS
PVC - D.I. SIZE (C900 Class 165)	4" - 12"	RATING OF PIPE	45 - 60 FT-LBS	30 - 40 FT-LBS
PVC - D.I. SIZE (C900 Class 235 & 305)	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - "CLASS PIPE" (IPS Size Less than ASTM D224 Class 160)	3" - 12"	RATING OF PIPE	45 - 60 FT-LBS	30 - 40 FT-LBS
PVC - "CLASS PIPE" (IPS Size ASTM D224 Class 160 & 200)	3"	RATING OF PIPE	45 - 60 FT-LBS	TORQUE OFF HEADS
PVC - "CLASS PIPE" (IPS Size ASTM D224 Class 160 & 200)	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - SCHED. 40 & 80 ASTM D1785	3"	RATING OF PIPE	45 - 60 FT-LBS	TORQUE OFF HEADS
PVC - SCHED. 40 & 80 ASTM D1786	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	4" - 6"	235 PSI	75 - 90 FT-LBS	30 - 40 FT-LBS
PVC - D.I. SIZE (C909)	8"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	10" - 12"	150 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
DUCTILE IRON	NOT COMPATABLE WITH RG-PVC			
STEEL				
ASBESTOS CEMENT				
FIBERGLASS				
HDPE				
*PRESSURE RATINGS ARE DESIGNED WITH A 2:1 SAFETY FACTOR / ALLOWABLE DEFLECTION 5 DEGREES 3-12"				

FM Approval

FM approved for AWWA C900 pipe class 150 and 200, 4"-12".

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This information is based on the best data available at the date printed above, please check with Romac Engineering Department for any updates or changes.

