

# ROMAC INDUSTRIES, INC.

## ROMAGRIP™ MECHANICAL JOINT RESTRAINING GLAND FOR AWWA C905 DUCTILE IRON SIZE POLYVINYL CHLORIDE (PVC) PIPE 14 THROUGH 24 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. It may be used on AWWA C905 ductile iron size PVC pipe. 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 standard MJ gasket is used with this fitting. See ANSI/AWWA C111/A21.11 for gasket specifications.  
**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.  
**Coatings** Shop coat applied to the 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 (C905 Class 100, DR 41)	14"	80 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 100, DR 41)	16" - 24"	100 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 125, DR 32.5)	14" - 24"	125 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 165, DR 25)	14" - 24"	165 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 235, DR 18)	14" - 16"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 235, DR 18)	18" - 20"	200 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 235, DR 18)	24"	165 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 305, DR 14)	14" - 16"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 305, DR 14)	18" - 20"	200 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 305, DR 14)	24"	165 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	NOT COMPATIBLE WITH RG-PVC			
PVC - "CLASS PIPE" (IPS SIZE)				
DUCTILE IRON				
STEEL				
ASBESTOS CEMENT				
FIBERGLASS				
HDPE				
*PRESSURE RATINGS ARE DESIGNED WITH A 2:1 SAFETY FACTOR				

**Deflection** Maximum joint deflection for 14" and 16" is 2.00 degrees and for 18" – 24" is 1.5 degrees.

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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.