

**MECHANICAL JOINT RESTRAINT SPECIFICATIONS**

1. MECHANICAL JOINT RESTRAINT SHALL BE ACCOMPLISHED BY A RESTRAINT DEVICE CONSISTING OF A FOLLOWER GLAND UTILIZING MULTIPLE GRIPPING WEDGES. GLAND BODY AND WEDGES SHALL BE DUCTILE IRON AND EPOXY COATED.
2. T-BOLTS AND NUTS SHALL BE HIGH STRENGTH LOW ALLOY STEEL T-BOLTS AND STEEL SHALL MEET AWWA C111 COMPOSITION SPECIFICATIONS.
3. RESTRAINT GLAND SHALL UTILIZE A STANDARD MECHANICAL JOINT GASKET.
4. THE FOLLOWING IS THE APPROVED LIST OF RESTRAINED JOINT SYSTEMS FOR MECHANICAL JOINTS AND DIP:
  - 4.1 "ROMAGRIP", ROMAC INDUSTRIES.
  - 4.2 "SERIES 1000 TUFGRIP", TYLER UNION.
  - 4.3 "MEGALUG", EBAA IRON, INC.
  - 4.4 APPROVED EQUIVALENT
5. THE FOLLOWING IS THE APPROVED LIST OF RESTRAINED JOINT SYSTEMS FOR MECHANICAL JOINTS AND PVC:
  - 5.1 "ROMAGRIP FOR PVC", ROMAC INDUSTRIES.
  - 5.2 "SERIES 2000 FOR PVC TUFGRIP", TYLER UNION.
  - 5.3 "MEGALUG SERIES 2000 PV", EBAA IRON, INC.
  - 5.4 APPROVED EQUIVALENT


**DUCTILE IRON PIPE RESTRAINED JOINT SPECIFICATIONS**

1. PIPE JOINT RESTRAINT FOR DIP SHALL BE ACCOMPLISHED WITH A PIPE BELL/SPIGOT INTEGRAL LOCK MECHANISM.
2. AS AN ALTERNATIVE AND WHERE ALLOWED BY CLARK PUBLIC UTILITIES, A BOLTLESS RESTRAINING GASKETS FOR DIP TYTON JOINT STYLE PIPE MAY BE USED. THE RESTRAINT GASKET SHALL BE A BOLTLESS GASKET WITH INTEGRAL RESTRAINING SYSTEM UTILIZING STAINLESS STEEL PARTS AND SHALL BE PRESSURE RATED FOR 350 PSI. THE GASKETS SHALL BE IN CONFORMANCE WITH ANSI/AWWA C111/A21.11 AND CERTIFIED TO NSF/ANSI 6. THE FOLLOWING IS THE APPROVED LIST OF DIP PIPE JOINT RESTRAINED GASKET SYSTEMS:
  - 2.1 "FIELD LOK 350 GASKET", U.S. PIPE AND FOUNDRY CO.
  - 2.2 "GRIPPER GASKET", GRIPPER GASKET LLC.
  - 2.3 APPROVED EQUIVALENT

**PVC PIPE RESTRAINED JOINT SPECIFICATIONS**

1. PVC PIPE JOINT RESTRAINT FOR MAY BE ACCOMPLISHED BY UTILIZING A PROPRIETARY PVC PIPE WHICH UTILIZES A PIPE BELL/SPIGOT INTEGRAL JOINT RESTRAINT MECHANISM. THE FOLLOWING IS THE APPROVED LIST OF PROPRIETARY PVC C-900 PIPE JOINT RESTRAINED SYSTEMS:
  - 1.1 "EAGLE LOC 900", JM EAGLE
  - 1.2 "CERTA-LOK C900/RJ", CERTAINTEED
  - 1.3 "DIAMOND LOK-21", DIAMOND PLASTICS INC.
  - 1.4 "RIEBERLOK" GASKET
  - 1.4 APPROVED EQUIVALENT
2. AS AN ALTERNATIVE, PVC PIPE MAY BE COUPLED TO CREATE A RESTRAINED JOINT BY UTILIZING A GREY IRON OR DUCTILE IRON MECHANICAL JOINT LONG PATTERN SLEEVE WITH A RESTRAINT FOLLOWER GLAND UTILIZING MULTIPLE GRIPPING WEDGES.

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<b>FILE NAME</b>		<b>MECHANICAL JOINT &amp; PIPE JOINT RESTRAINT SPECIFICATIONS</b>	
<b>O-MJ</b>			
<b>SHEET</b>	<b>1 OF 1</b>	<b>STANDARD DETAILS</b>	