

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 "STARGRIP SERIES 3000", STAR PIPE PRODUCT
 - 4.5 "SIGMA ONE-LOK", OR
 - 4.6 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 61. THE FOLLOWING IS THE APPROVED LIST OF DIP JOINT RESTRAINED GASKET SYSTEMS **FOR PUSH-ON JOINTS AND ALLOWABLE MANUFACTURED RESTRAINED JOINT PIPE WITH GASKETS AND STEEL INSERTS:**
 - 2.1 "FIELD LOK 350 GASKET" **(WITH TYTON JOINT)**, U.S. PIPE AND FOUNDRY CO.
 - 2.2 "GRIPPER GASKET" (WITH TYTON JOINT), GRIPPER GASKET LLC.
 - 2.3 "MCWANE DUCTILE SURE STOP GASKETS (WITH TYTON JOINT)
 - 2.4 "AMERICAN FAST-GRIP GASKET" (WITH FASTITE JOINT)
 - 2.5 "FLEX-RING JOINT PIPE", AMERICAN **PIPE**
 - 2.6 "TR FLEX JOINT PIPE", US PIPE **OR MCWANE**
 - 2.7 "HDSS JOINT PIPE", US PIPE
 - 2.8 APPROVED EQUIVALENT

PVC PIPE RESTRAINED JOINT SPECIFICATIONS

1. PVC PIPE JOINT RESTRAINT 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 GRIP-TITE**", DIAMOND PLASTICS INC.
 - 1.4 APPROVED EQUIVALENT

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FILE NAME		MECHANICAL JOINT & PIPE JOINT RESTRAINT SPECIFICATIONS	<div>Clark Public Utilities</div> 
O-MJ			
SHEET	1 OF 1	STANDARD DETAILS	