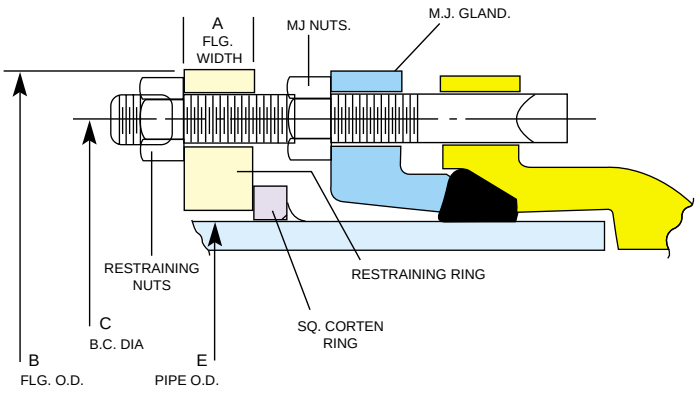
Griffin MECH-LOK™ Rigid Restrained Joint

Certain pipeline construction projects require rigid restrained joint pipe for use on bridges or other elevated structures. The ***MECH-LOK*** joint combines the proven mechanical joint with a rigid restraining system. This product can be used on long-span piers at 40 ft. spacings.

The ***MECH-LOK*** assembly consists of a mechanical joint pipe, a ductile iron or A588 alloy steel ***MECH-LOK*** ring, and a factory-welded alloy steel ring on the plain end (spigot) of the pipe. The ***MECH-LOK*** joint is available in sizes 6” through 36” with working pressure ratings of 250 psi. It can be ordered with any standard or custom pipe laying length. ***MECH-LOK*** joints are supplied with the gland and fasteners. Note: **Although mechanical joint pipe is produced in 3” - 24” sizes only**, ***MECH-LOK*** **joints can be specified on any spigot up to 36” diameter.**



The double-nut design of the ***MECH-LOK*** joint allows the first nut to tighten the mechanical joint gland and compress the gasket. The second nut provides the necessary joint restraint and determines the flexibility of the finished joint. If the restraining nut is fully torqued, it will create a rigid pipeline with the capability of spanning 40-foot long span support spacings. The supports can be piers giving support from below or pipe hangers giving support from above the pipeline. Hangers can be as close as the bridge architecture demands or as distant as 40-feet on-center. The hangers are only responsible for supporting the dead weight of the pipe and its contained fluid - the rigid joint handles the thrust force. Isolated expansion is addressed by using readily available expansion joints as necessary.

6” - 36” MECH-LOK™ JOINT

Pipe Size	“A” Flange Width	“B” Flange O.D.	“C” B.C. Dia.	“E” Pipe Dia.	Bolt Length	Number of Bolts	Deflection Angle
6”	0.75	11.13	9.50	6.90	8	6	2 1/2°
8”	1.00	13.38	11.75	9.05	8	6	2 1/2°
10”	1.00	15.63	14.00	11.10	8	8	2 1/2°
12”	1.00	17.88	16.25	13.20	8	8	2°
14”	1.25	20.25	18.75	15.30	8	10	2°
16”	1.50	22.50	21.00	17.40	8	12	2°
18”	1.63	25.75	23.25	19.50	8	12	2°
20”	1.75	28.32	25.50	21.60	8	14	2°
24”	2.00	32.44	30.00	25.80	8	16	2°
30”	2.50	39.25	36.88	32.00	10.5	20	1/2°
36”	3.00	46.00	43.75	38.30	11	24	1/2°