ROMAC INDUSTRIES, INC.
ROMAGRIP
MECHANICAL JOINT RESTRAINING GLAND
3 THROUGH 12 INCH
SUBMITTAL INFORMATION

USE

The Romac RomaGrip restraining gland is used for the restraint of mechanical joint ductile iron pipe, valves, fittings, and fire hydrants in water transmission and fire protection lines. It may also be used on steel pipe (minimum thickness schedule 40) with MJ by IPS transition gasket. The RomaGrip replaces costly concrete thrust blocks, corrodible steel tie rods and clamps. Not for use on plain end mechanical joint fittings. The RomaGrip may be used on cast iron pipe as long as it has the same OD as ductile iron pipe.

Note: Some initial axial movement may occur in lug style restraints as the lugs seat. Movement is directly related to the size of the piping system and the system pressure. In general terms movement of approximately 0.25 can be expected in restraints under 16". For larger sizes, movement of approximately 0.40 may be seen. If this is critical to your application please contact Romac Engineering for additional information.

MATERIALS

Gland	Ductile (nodular) iron, meeting or exceeding ASTM A 536-84, Grade 65-45-12.
Gaskets	A standard MJ gasket is used with this fitting. See ANSI/AWWA C111/A21.11 for gasket specs.
Restraining Bolt	7/8 –9 roll thread, Ductile (nodular) iron, meeting or exceeding ASTM A 536-84.
Restraining Lugs	Ductile (nodular) iron, meeting or exceeding ASTM A 536-84. Heat treated using a proprietary process.
Lug Locators	Polyurethane, a thermo-set plastic.
Coatings	Shop coat applied to the casting for corrosion protection in transit. Epoxy coating optional.

PERFORMANCE

Nominal Pipe Size	Number of Restraining Bolts	Approx. Weight (lbs)	Working Pressure (psi)	Test Pressure (psi)	Maximum Joint Deflection
3	2	6	350	700	5°
4	2	7.5	350	700	5°
6	3	11	350	700	5°
8	4	16.5	350	700	5°
10	6	23	350	700	5°
12	8	29.5	350	700	5°

FM Approved FM approved for cast iron and ductile iron pipe at 175 psi working pressure (4 : 1 test).

UL Listed UL listed for cast iron and ductile iron pipe.

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