

ROMAC INDUSTRIES, INC.
RESTRAINED FLANGED COUPLING ADAPTER
FOR STEEL AND DUCTILE IRON PIPE
3 THROUGH 12 INCH
SUBMITTAL INFORMATION



USE

The Restrained Flanged Coupling Adapter is used to connect plain end steel (Schedule 40 minimum thickness) or ductile iron pipe to a flanged pipe or fitting. It provides flexibility before and after installation, and a RomaGrip wedge style restrainer provides restraint for the plain end pipe. Not for use on plain end mechanical joint fittings.

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 and Flange Body	Ductile (nodular) iron, meeting or exceeding ASTM A 536, Grade 65-45-12.
Gaskets	Gasket is made from virgin Styrene Butadiene Rubber (SBR) compounded for water and sewer service in accordance with ASTM D 2000 MBA 710. Flange gasket is O ring style and is made of Nitrile Butadiene Rubber (NBR) in accordance with ASTM D 2000. Other compounds available for petroleum, chemical, or high temperature service on request.
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.
Lug Locators	Polyurethane, a thermal plastic.
T-bolts and Nuts	High strength low alloy steel T-head bolt. National coarse rolled thread and heavy hex nut. Steel meets AWWA C111 composition specifications. Stainless steel bolts and nuts available on request.
Coatings	Shop coat applied to cast parts for corrosion protection in transit. Fusion bonded epoxy available on request.
FLANGE	Compatible with ANSI Class 125 and 150 bolt circles.
AWWA C219	Romac 501 couplings meet the specifications set forth in the AWWA Standard C219 coupling spec.
FM Approved	FM approved for cast iron and ductile iron pipe.

PERFORMANCE

Nominal Pipe Size (inches)	Pressure Rating (psi)		Max. Joint Deflection (°)	Pipe Insertion (inches)		
	Working	Test		Minimum	Maximum	Δ
3	275	412	2.0	2.0	4.5	2.5
4	275	412	3.5	2.0	5.0	3.0
6	275	412	3.5	2.0	5.5	3.5
8	275	412	3.3	2.0	5.5	3.5
10	275	412	3.0	2.0	6.3	4.3
12	275	412	3.0	2.0	6.3	4.3

SIZES AND RANGES

See Catalog.

Document Number 20-8-0018

8/06

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.