

# RFCA

## RESTRAINED FLANGE COUPLING ADAPTER FOR STEEL AND DI PIPE 3 – 12 INCH

### SUBMITTAL INFORMATION

#### USE

The Restrained Flanged Coupling Adapter is used to connect plain end IPS sizes steel pipe (minimum thickness STD weight class pipe) 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. 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 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, RomaGrip Romabond polyester available on request.

##### FLANGE

Compatible with ANSI Class 125 and 150 bolt circles.

#### STANDARD

Romac couplings meet the specifications set forth in the AWWA Standard C219 coupling spec.

#### FM APPROVED

FM approved for cast iron and ductile iron pipe.

#### SIZES & RANGES

See Catalog.

#### PERFORMANCE

NOM. 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

This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.



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