

# RFCA-PVC

## RESTRAINED FLANGE COUPLING ADAPTER FOR PVC PIPE 3 – 12 INCH

### SUBMITTAL INFORMATION



### USE

The Restrained Flanged Coupling Adapter is used to connect plain end PVC pipe to a standard ANSI class 125 and 150 bolt circle. It provides flexibility before and after installation. The RFCA replaces costly concrete thrust blocks, corrodible steel tie rods and clamps.

### 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 AWWA C900 pipe class 150 and 200, 4"-12".

11/17

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*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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#### 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

#### PIPE COMPATIBILITY AND TORQUE

PIPE MATERIAL	PIPE SIZE	WORKING PRESSURE	RECOMMENDED TORQUE FOR T-BOLTS	RECOMMENDED TORQUE FOR RESTRAINING BOLTS
PVC - D.I. SIZE (C900 Class 165)	4" - 12"	RATING OF PIPE	45 - 60 FT-LBS	30 - 40 FT-LBS
PVC - D.I. SIZE (C900 Class 235 & 305)	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - "CLASS PIPE" (IPS Size Less than ASTM D2241 Class 160)	3" - 12"	RATING OF PIPE	45 - 60 FT-LBS	30 - 40 FT-LBS
PVC - "CLASS PIPE" (IPS Size ASTM D2241 Class 160 & 200)	3"	RATING OF PIPE	45 - 60 FT-LBS	TORQUE OFF HEADS
PVC - "CLASS PIPE" (IPS Size ASTM D2241 Class 160 & 200)	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - SCHED. 40 & 80 ASTM D1785	3"	RATING OF PIPE	45 - 60 FT-LBS	TORQUE OFF HEADS
PVC - SCHED. 40 & 80 ASTM D1785	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	4" - 6"	235 PSI	75 - 90 FT-LBS	30 - 40 FT-LBS
PVC - D.I. SIZE (C909)	8"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	10" - 12"	150 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
DUCTILE IRON	NOT COMPATIBLE WITH RFCA-PVC			
STEEL				
ASBESTOS CEMENT				
FIBERGLASS				
HDPE				

\*PRESSURE RATINGS ARE DESIGNED WITH A 2:1 SAFETY FACTOR

#### SIZES & RANGES

See Catalog.

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