RFCA-PVC
RESTRAINED FLANGE COUPLING ADAPTER FOR PVC PIPE 3 – 12 INCH

SUBMITTAL INFORMATION

FM APPROVED

NSF61 Certified.

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.

GLAND 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, this option will be provided as all thread rod and two nuts.

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".

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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)	MAX. JOINT DEFLECTION (°)	PIPE INSERTION (INCHES) MINIMUM	MAXIMUM	Δ
3	2.0	2.0	4.5	2.5
4	3.5	2.0	5.0	3.0
6	3.5	2.0	5.5	3.5
8	3.3	2.0	5.5	3.5
10	3.0	2.0	6.3	4.3
12	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 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				

*WORKING PRESSURES ARE DESIGNED WITH A 2:1 SAFETY FACTOR

SIZES & RANGES

See Catalog.

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