

ROMAC INDUSTRIES, INC.
RESTRAINED FLANGED COUPLING ADAPTER (RFCA)
FOR AWWA C905 DUCTILE IRON SIZE POLYVINYL
CHLORIDE (PVC) PIPE
14 THROUGH 24 INCH

SUBMITTAL INFORMATION

USE	The Restrained Flanged Coupling Adapter is used to connect plain end C905 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.
Gasket	MJ Gasket per AWWA C111 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.
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	Type 304 stainless steel.
T-bolts and Nuts	High strength low alloy steel T-head bolt. National coarse rolled thread and heavy hex nut. Steel meets ASTM A 588 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 couplings meet the specifications set forth in the AWWA Standard C219 coupling spec.

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Pipe Compatibility and Torque

PIPE MATERIAL	PIPE SIZE	WORKING PRESSURE	RECOMMENDED TORQUE FOR T-BOLTS	RECOMMENDED TORQUE FOR RESTRAINING BOLTS
PVC - D.I. Size (C905 Class 100, DR 41)	14"	80 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 100, DR 41)	16" - 24"	100 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 125, DR 32.5)	14" - 24"	125 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 165, DR 25)	14" - 24"	165 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 235, DR 18)	14" - 16"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 235, DR 18)	18" - 20"	200 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 235, DR 18)	24"	165 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 305, DR 14)	14" - 16"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 305, DR 14)	18" - 20"	200 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. Size (C905 Class 305, DR 14)	24"	165 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	NOT COMPATIBLE WITH RFCA-PVC			
PVC - "CLASS PIPE" (IPS SIZE)				
DUCTILE IRON				
STEEL				
ASBESTOS CEMENT				
FIBERGLASS				
HDPE				
*PRESSURE RATINGS ARE DESIGNED WITH A 2:1 SAFETY FACTOR				

Deflection Maximum joint deflection for 14" and 16" is 2.00 degrees and for 18" – 24" is 1.5 degrees.

SIZES AND RANGES See Catalog.