

# RomaGrip™

The RomaGrip™ pipe restrainer provides mechanical joint restraint for ductile iron, (steel 3"-12") and PVC pipe. The RomaGrip™ can be utilized on valves, fittings, hydrants and practically anywhere a mechanical joint is present.



## EASY TO INSTALL

Since the radial bolts have the same size hex head as AWWA T-bolts, a single wrench can be used for installation.

No parts need to be removed from the PVC-RomaGrip™ to use it on either C900 or IPS PVC. And the available DI/IPS gasket is a slip-on design, and not a stretch-on gasket commonly found on other restraints. Ask any installer just how important these features are.

## SAFE FOR THIN WALL PIPE

QuikGrip™ wedges and SofTouch™ bolts work together to firmly engage pipe wall safely.

## SIMPLE TO MAINTAIN

RomaGrip™ components are mechanically secure so they won't fall off during shipping, installation, or in the event the RomaGrip must be removed from the pipe.

## ROBUST DESIGN

The RomaGrip™ is designed to take whatever comes down the pipeline. Computer-generated solid models and 3-D finite element stress analysis assure that there is plenty of strength where it is needed.



RomaGrip™ for ductile iron and steel pipe

RomaGrip™ for PVC pipe



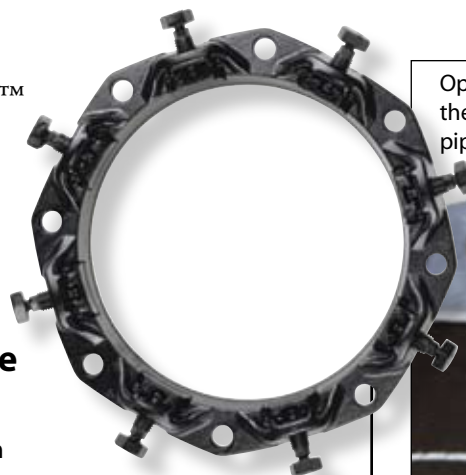
**ROMAC INDUSTRIES, INC.**

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# RomaGrip™

precision designed ductile iron pipe restraint



Open design allows the installer to see the restraining wedges engage the pipe

QuikGrip™ heat treated radial restraining wedges engage the pipe and spread forces evenly.



SofTouch™ bolt heads shear off precisely when the proper torque is applied.

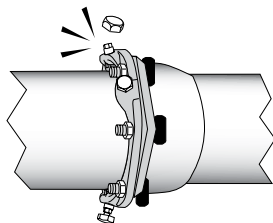
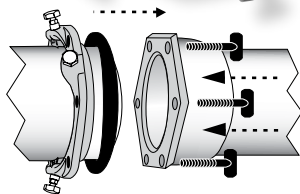
## Installation is simple

Place the RomaGrip gland on the pipe end.

Slip the gasket over the pipe end.

Insert and tighten the T-Bolts

Tighten the SofTouch™ bolts on the RomaGrip until the bolt heads break off (this indicates you've applied the proper amount of torque).



see installation instructions for complete procedure

## RomaGrip™ Material Specifications

**Gland:** Ductile iron meeting or exceeding ASTM A 536-80, Grade 65-45-12.

**Gasket\*:** A standard MJ gasket is used with this fitting. See ANSI/AWWA C111/A21.11 for gasket specs. For steel pipe (3"-12"), an MJ x IPS transition gasket or Romac's DI/IPS gasket is used.

**Restraining Bolt:** Roll threaded ductile iron meeting or exceeding ASTM A 536-80.

**Restraining Wedges:** Ductile iron, meeting or exceeding ASTM A 536-80. Heat-treated using a proprietary process.

**Coatings:** Shop coat applied for corrosion protection in transit. Fusion bonded epoxy available upon request.

**Use:** Ductile Iron Pipe 3 - 48", IPS size sch. 40 steel pipe, 3 - 12".  
Not for use on PVC pipe.

\* Gasket is included in the RomaGrip™ Accessory Pack

## RomaGrip™

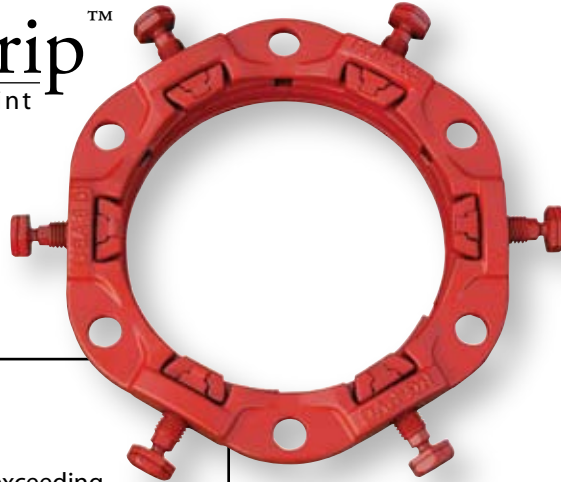
Nominal Pipe Size	Shipping Weight (lbs.)	Number of Restraint Wedges	Deflection Angle (degrees)	Pressure Rating (2:1 test)
3	7	2	5	350
4	8	2	5	350
6	10	3	5	350
8	15	4	5	350
10	27	6	5	350
12	35	8	5	350
14	48	10	2	350
16	54	12	2	350
18	62	12	1.5	250
20	78	14	1.5	250
24	88	16	1.5	250
30	190	20	1	250
36	225	24	1	250
42	500	28	1	250
48	600	32	1	250

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

# PVC - RomaGrip™

precision designed pvc pipe restraint

Like the RomaGrip™ for ductile iron, the restraining bolt heads twist off precisely when the proper torque has been applied.



## SAFE FOR PVC

Lugs cover virtually the whole pipe circumference, spreading out restraining forces and reducing stress.

## REDUCES INVENTORY

The same PVC-RomaGrip™ can be used on C900 and IPS PVC.

An available DI/IPS gasket works on C900 and IPS pipe, so one package can do it all.

## PVC-RomaGrip™ Material Specifications

**Gland:** Ductile (nodular) iron, meeting or exceeding ASTM A 536, Grade 65-45-12.

**Gasket\*:** SBR, compounded for water and sewer service in accordance with ASTM D 2000 MBA 710. Other compounds available for petroleum, chemical, or high temperature service.

**Restraining Bolts:** 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 AWWA C111 composition specifications.

**Coatings:** Shop coat applied to cast parts for corrosion protection in transit. Fusion bonded epoxy available on request.

**Use:** See Pipe Compatibility Chart below.

\* Gasket and T-Bolts & Nuts are included in the RomaGrip™ Accessory Pack

## PVC-RomaGrip™

Nominal Pipe Size	Shipping Weight (lbs.)	Number of Restraint Wedges	Gasket Range	Pressure Rating
3	9	4	3.50-3.96	Rated to the pressure rating of the pipe with a minimum 2:1 safety factor
4	11	4	4.50-4.80	
6	14	6	6.63-6.90	
8	18	6	8.63-9.05	
10	22	8	10.75-11.10	
12	28	8	12.75-13.20	
14	46	10	15.30	
16	55	12	17.40	
18	68	12	19.50	
20	72	14	21.60	
24	94	16	25.80	

## PVC-RomaGrip™ PIPE COMPATIBILITY CHART

Pipe Material	Pipe Size	Working Pressure	Comments
PVC - D.I. Size (C900, C905)	4" - 24"	Rating of pipe	All Classes
PVC - "Class Pipe" (IPS Size)	3" - 12"	Rating of pipe	ASTM D 2241. Class 160 & 200
PVC - Sched. 40 & 80	3" - 12"	Rating of pipe	ASTM D 1785
PVC - D.I. Size (C909)	4" - 12"	Rating of pipe	AWWA C909 DI size
Ductile Iron	-	-	PVC-RomaGrip not for use on ductile iron
Steel	-	-	PVC-RomaGrip not for use on steel
Asbestos Cement	-	-	PVC-RomaGrip not for use on asbestos cement
Fiberglass	-	-	PVC-RomaGrip not for use on fiberglass
HDPE	-	-	PVC-RomaGrip not for use on HDPE

May be used on thin wall DI size PVC such as C909 & Class 100 C900 with special torque requirements, torque the restraining bolts to 30-40 ft-lbs. (in this case, the torque off bolts may not break off.)

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# ROMAC INDUSTRIES, INC.

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Romac Industries, Inc. is a water works products company dedicated to integrating technology with pipe products to develop innovative solutions for planners, engineers and end-users. Headquartered in Bothell, WA, Romac currently has warehouse and production facilities on both the east and west coasts of the United States, including our own ductile iron foundry. Romac has a full line of waterworks products including: Repair Clamps, Couplings, Tapping Sleeves, Service Saddles, HDPE products, Sewer products, Tapping Tools, Valve Insertion and Restraint Systems. The range of solutions that Romac offers has been put to use in an extremely diverse group of systems worldwide.



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