

611 PIPE RESTRAINING SYSTEM



MATERIAL SPECIFICATIONS

CASTINGS: Ductile iron, meeting or exceeding ASTM A536, Grade 65-45-12.

CLAMPING BOLTS SIZES 4"-6": HSLA (High-Strength, Low-Alloy) trackhead bolts per ASTM A588 Grade A. Material composition meets AWWA C111. Nuts, heavy hex, corten, double chamfered.

CLAMPING BOLTS SIZES 8"-12": Grade 8 (medium carbon alloy steel) heavy hex bolts per SAE J429.

CLAMPING BOLTS SIZES 14"-36": High strength steel in accordance with ASTM A449 and zinc plated to B633, type III Sc.1 for corrosion resistance.

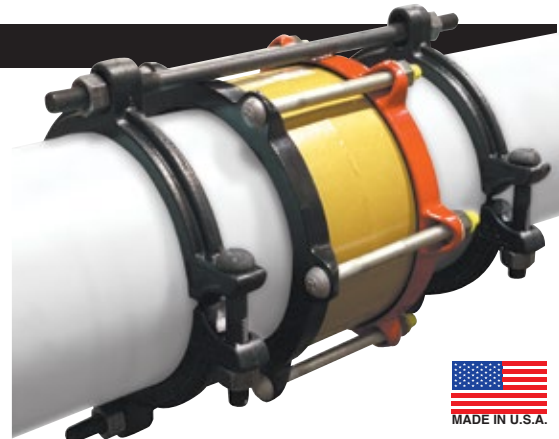
RESTRAINING RODS SIZES 4"-36": HSLA (High-Strength, Low-Alloy) stud bolts per ASTM A588 Grade A. Material composition meets AWWA C111.

CLAMPING AND RESTRAINING NUTS: HSLA (High-Strength, Low-Alloy) heavy hex nuts. Material composition meets AWWA C111.

COATING 4"-12": Color coded shopcoat. Black for ductile iron and C900 sizes, Red for IPS size PVC.

COATING 14"-36": Red for C905 PVC only.

NOTE: Stainless steel bolts and rods are available upon request, please provide maximum pressure.



6 INCH 611 RESTRAINING PIPE ENDS ON BOTH SIDES OF A ROMAC 501 COUPLING

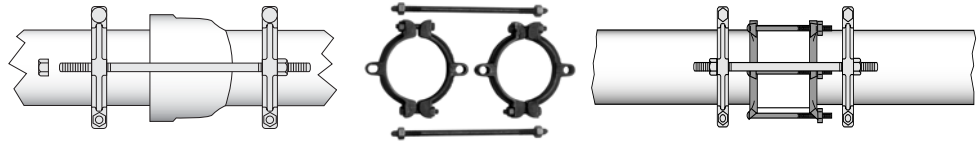


600 SERIES APPROVED FOR 4"-10" SIZES FOR C900

RESTRAINT SYSTEMS

STYLE 611

for Bell & Spigot Joints, Romac Couplings and Transitions



NOM. PIPE SIZE	PIPE MATERIAL	PIPE O.D.	CATALOG NUMBER	CLAMPING BOLTS ¹ QTY: SIZE	RESTRAINING RODS QTY: SIZE	APPROX. WEIGHT (lbs.)	LIST PRICE
4"	IPS size PVC DI, C-900	4.50	611 - 4.50	4: 5/8" x 4"	2: 3/4" x 18"	20 #	\$117.17
		4.80	611 - 4.80				
6"	IPS size PVC DI, C-900	6.63	611 - 6.63	4: 5/8" x 4"	2: 3/4" x 20"	22 #	155.33
		6.90	611 - 6.90				
8"	IPS size PVC DI, C-900	8.63	611 - 8.63	4: 3/4" x 5"	2: 3/4" x 20"	40 #	251.70
		9.05	611 - 9.05				
10"	IPS size PVC DI, C-900	10.75	611 - 10.75	4: 7/8" x 5"	4: 3/4" x 22"	50 #	438.76
		11.10	611 - 11.10				
12"	IPS size PVC DI, C-900	12.75	611 - 12.75	4: 7/8" x 5"	4: 3/4" x 22"	60 #	480.04
		13.20	611 - 13.20				
14" ²	C900 (C905)	15.30	611 - 15.30 ²	8: 7/8" x 6 1/4"	6: 3/4" x 30"	105 #	949.05
16" ²	C900 (C905)	17.40	611 - 17.40 ²	8: 7/8" x 6 1/4"	6: 3/4" x 30"	115 #	1,007.33
18" ²	C900 (C905)	19.50	611 - 19.50 ²	8: 1" x 6 1/4"	8: 3/4" x 30"	165 #	1,157.18
20" ²	C900 (C905)	21.60	611 - 21.60 ²	8: 1 1/4" x 6 1/2"	8: 3/4" x 36"	235 #	1,998.00
24" ²	C900 (C905)	25.80	611 - 25.80 ²	8: 1 1/4" x 6 1/2"	10: 3/4" x 36"	290 #	2,172.83
30" ²	C900 (C905)	32.00	611 - 32.00 ²	8: 1 1/4" x 8 1/2"	10: 1" x 40"	465 #	3,579.75
36" ²	C900 (C905)	38.30	611 - 38.30 ²	8: 1 1/4" x 8 1/2"	12: 1" x 40"	525 #	4,445.55

¹ Per pair of castings

Not for use on polyethylene pipe, C909, steel pipe or ductile iron pipe larger than 12 inches.

² Imported

TO ORDER: Specify catalog number.

EXAMPLE: For a 6" DI or C-900 Bell & Spigot Joint, order **STYLE 611 - 6.90**



612 PIPE RESTRAINING SYSTEM

RESTRAINT SYSTEMS

MATERIAL SPECIFICATIONS

CASTINGS: Ductile iron, meeting or exceeding ASTM A536, Grade 65-45-12.

CLAMPING BOLTS FOR SIZES 4"-12": High Strength Low Alloy Steel per AWWA C111. Nuts are ANSI B 18.2.2.

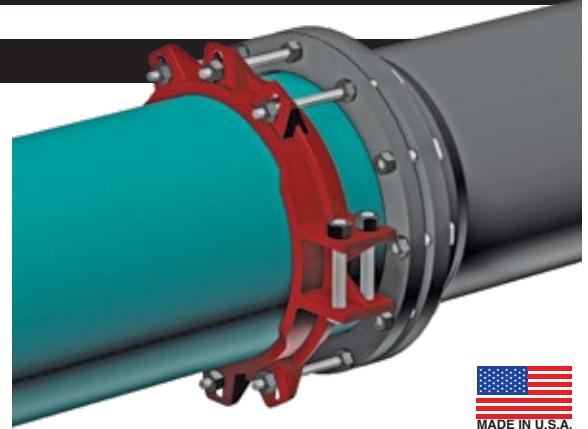
CLAMPING BOLTS AND HEX NUTS FOR SIZES 14"-36": High strength steel in accordance with ASTM A449 and zinc plated to B633, Type III Sc.1 for corrosion resistance. Equivalent grade is SAE J429 Grade 5.

T-BOLTS AND NUTS FOR SIZES 4"-12": High strength, low alloy steel per AWWA C111.

T-BOLTS AND NUTS FOR SIZES 14"-36": High strength, low alloy steel in accordance with AWWA/ANSI C111/A21.11 and provide a minimum 45,000 psi yield and 60,000 psi tensile strength.

COATING 4"-12": Color coded shop coat. Black for ductile iron and C900 sizes, Red for IPS size PVC.

COATING 14"-36": Red for C905 PVC only.



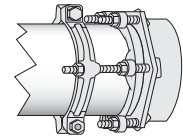
16 INCH 612 RESTRAINING A STANDARD MECHANICAL JOINT.



600 SERIES APPROVED FOR 4"-10" SIZES FOR C900

STYLE 612

for Mechanical Joints & Push-On Fittings with Restraint Ears.



NOM. PIPE SIZE	PIPE MATERIAL	PIPE O.D.	CATALOG NUMBER	CLAMPING BOLTS QTY: SIZE	RESTRAINING RODS QTY: SIZE	APPROX. WEIGHT (lbs.)	LIST PRICE
4"	IPS size PVC DI, C-900	4.50	612 - 4.50	2: 5/8" x 4"	2: 3/4" x 7"	10 #	\$83.13
		4.80	612 - 4.80				
6"	IPS size PVC DI, C-900	6.63	612 - 6.63	2: 5/8" x 4"	2: 3/4" x 7"	15 #	100.73
		6.90	612 - 6.90				
8"	IPS size PVC DI, C-900	8.63	612 - 8.63	2: 3/4" x 5"	2: 3/4" x 7"	25 #	149.82
		9.05	612 - 9.05				
10"	IPS size PVC DI, C-900	10.75	612 - 10.75	2: 7/8" x 5"	4: 3/4" x 7"	28 #	281.05
		11.10	612 - 11.10				
12"	IPS size PVC DI, C-900	12.75	612 - 12.75	2: 7/8" x 5"	4: 3/4" x 7"	32 #	298.62
		13.20	612 - 13.20				
14" ¹	C900 (C905)	15.30	612 - 15.30 ¹	4: 7/8" x 6 1/4"	6: 3/4" x 17"	52 #	516.15
16" ¹	C900 (C905)	17.40	612 - 17.40 ¹	4: 7/8" x 6 1/4"	6: 3/4" x 17"	58 #	566.10
18" ¹	C900 (C905)	19.50	612 - 19.50 ¹	4: 1" x 6 1/4"	8: 3/4" x 17"	86 #	649.35
20" ¹	C900 (C905)	21.60	612 - 21.60 ¹	4: 1 1/4" x 6 1/2"	8: 3/4" x 24"	123 #	1,065.60
24" ¹	C900 (C905)	25.80	612 - 25.80 ¹	4: 1 1/4" x 6 1/2"	10: 3/4" x 24"	151 #	1,298.70
30" ¹	C900 (C905)	32.00	612 - 32.00 ¹	4: 1 1/4" x 8 1/2"	10: 1" x 24"	240 #	2,147.85
36" ¹	C900 (C905)	38.30	612 - 38.30 ¹	4: 1 1/4" x 8 1/2"	10: 1" x 24"	269 #	2,580.75

¹ Imported

Not for use on polyethylene pipe, C909, plain end mechanical joint fittings, steel pipe or ductile iron pipe larger than 12 inches.

TO ORDER: Specify catalog number.

EXAMPLE: For a 6" DI or C-900 MJ fitting, order **Style 612 - 6.90**