

ROMAC INDUSTRIES, INC.

ALPHA™ RESTRAINED JOINT



Available ranges fit
IPS PVC up through
Oversize Cast Iron pipe



Cast components are
high strength ductile iron



No pipe stiffener required
for HDPE pipe



Working Pressure:
up to 350 PSI



Fast installation takes
less than 3 minutes



Manufactured in the U.S.A.

NOW AVAILABLE IN THREE CONFIGURATIONS

ALPHA™
COUPLING



ALPHA™
END CAP



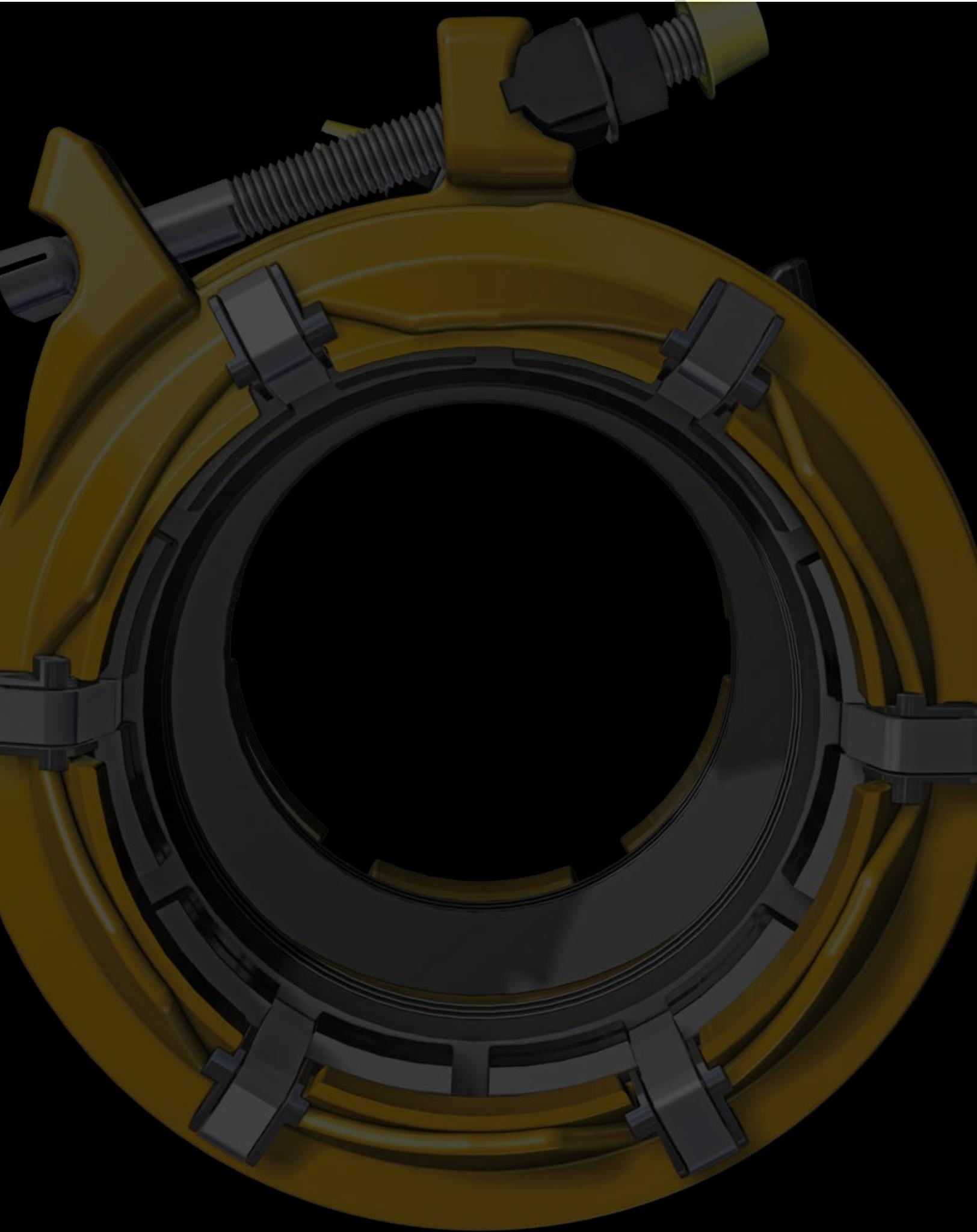
ALPHA™
FLANGED COUPLING



ROMAC
INDUSTRIES, INC.

1.800.426.9341 • www.romac.com

BALPHA • 04.18.2016





ROMAC ALPHA RESTRAINED JOINT CONFIGURATIONS



ALPHA™

Wide Range Restrained Coupling

Originally released in the summer of 2013, the Alpha coupling installs in about three minutes, and accommodates up to 8 degrees of deflection (4 degrees on each end).



ALPHA™ EC

Wide Range Restrained End Cap

The Alpha EC caps plain-end pipe for testing, blow-off or line flushing. The Alpha End Cap can also be used as a reliable pipe end seal for permanent installation.



ALPHA™ FC

Wide Range Restrained Flanged Coupling

The Alpha Flanged Coupling quickly adapts plain-end pipe to flanged fittings. The Alpha Flanged Coupling also accommodates flanged spool pieces for connecting to valves and other fittings.

ALPHA™

WIDE RANGE RESTRAINED JOINT

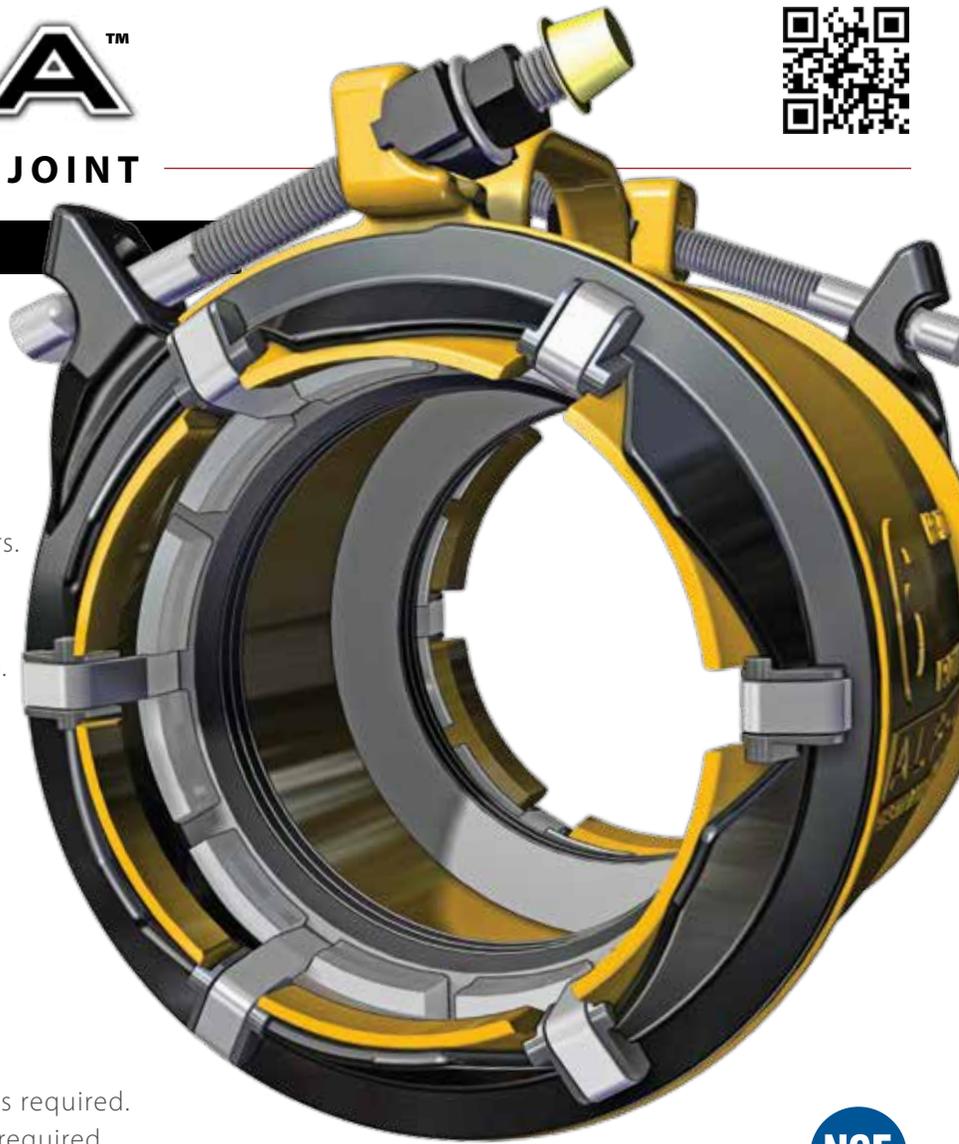


ALPHA ADVANTAGES

- Standard Alpha covers IPS PVC through Ductile Iron pipe diameters.
- Alpha XL accommodates Ductile Iron through Oversize Cast Iron pipe sizes.
- Alpha can be configured to transition from IPS PVC up to Oversize Cast Iron pipe diameters.
- One piece, stab-fit installation.
- Cast components are high strength ductile iron.
- Working pressure: up to 350 PSI.
- Manufactured in the U.S.A.
- US Patent: 8,894,100
- Alpha products are approved for use on:
 - ✓ Ductile iron
 - ✓ Cast iron (Classes A, B, C & D)
 - ✓ PVC IPS size (Sch 40, Sch 80 & SDR 21)
 - ✓ PVC C900 and C909
 - ✓ HDPE: SDR 9, 11, 13.5 & 17, no pipe stiffeners required.
 - ✓ HDPE: SDRs greater than 17, pipe stiffeners required.

For other pipe materials, contact Romac.

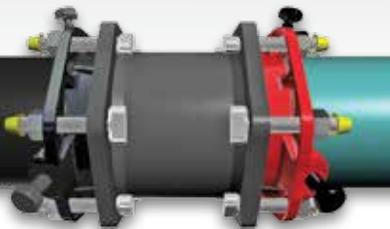
Note: The original Alpha (with black grippers) is not compatible with HDPE pipe.



INSTALLATION TIME IS A FRACTION OF OTHER RESTRAINT METHODS



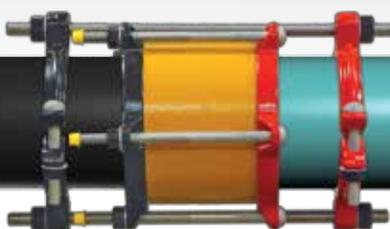
6" SLEEVE AND TWO MJ RESTRAINERS



- 30 Minutes to install
- 29 Total parts to assemble
- 12 T-Bolts to torque
- 9 Radial bolts to torque
- 2 Gaskets to seat



6" COUPLING PLUS RESTRAINT SYSTEM



- 35 Minutes to install
- 33 Total parts to assemble
- 5 Coupling bolts to torque
- 4 Clamping bolts to torque
- 2 Gaskets to seat



ALPHA

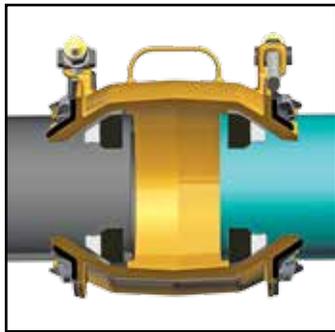


- 3 Minutes to install
- 2 Nuts to torque
- 1 Piece (stab-fit)
- 0 Guess-work

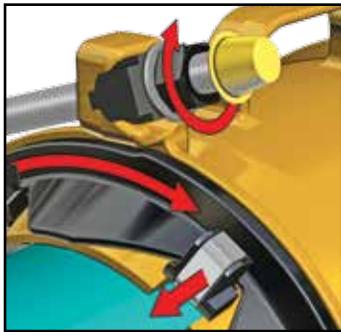
KEY ALPHA COMPONENTS



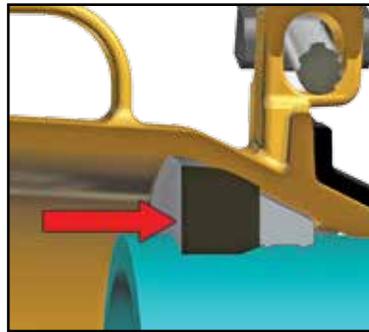
HOW ALPHA WORKS



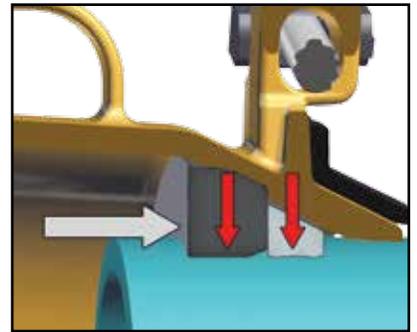
1 • Alpha is positioned over the pipe gap.



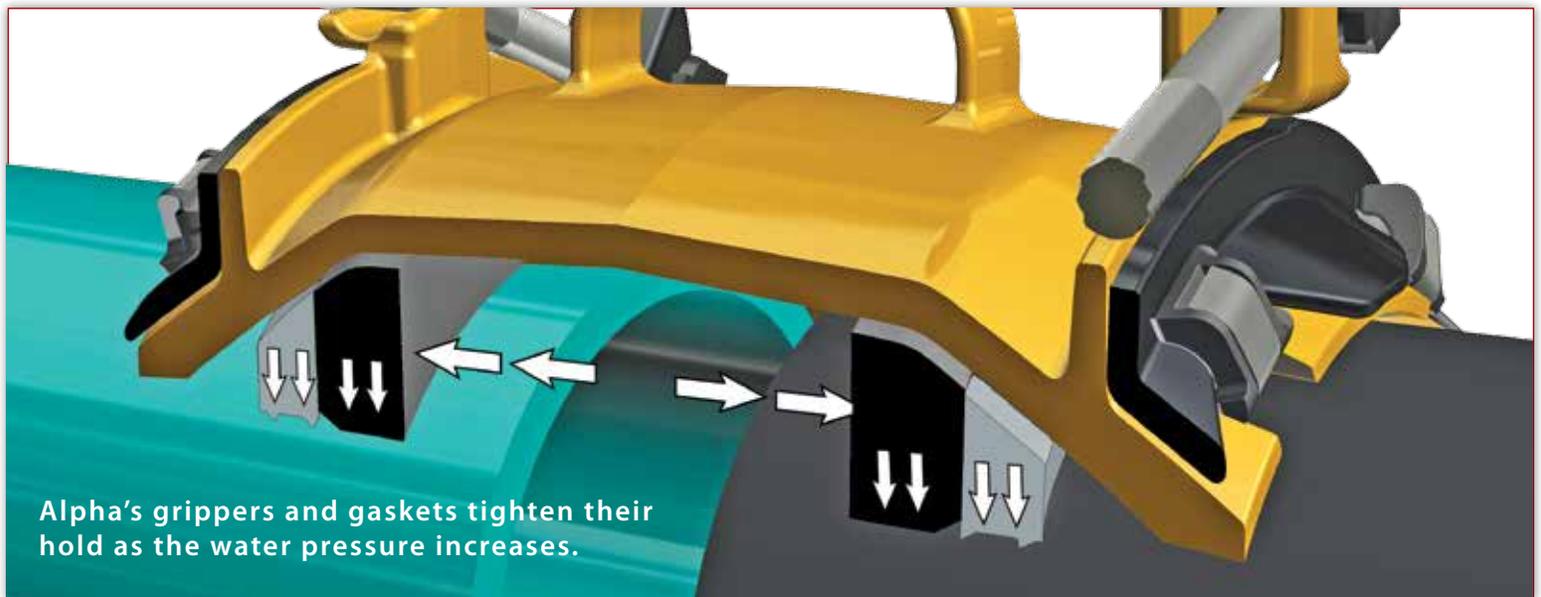
2 • Nuts are tightened, rotating the end ring.



3 • Draw hooks pull gasket and grippers outward and against the pipe.



4 • Gaskets compress and seal against the pipe surface. Gripper teeth are set.



ALPHA™

WIDE RANGE RESTRAINED COUPLING



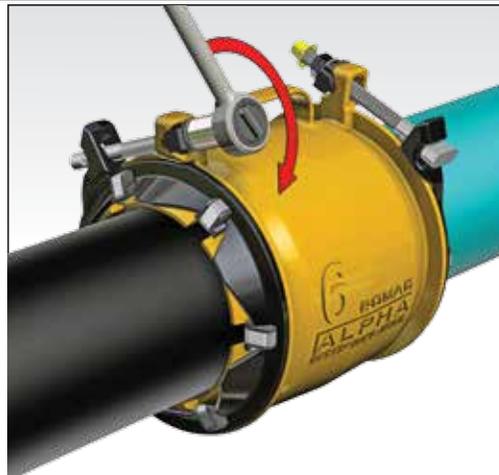
- With just two nuts to tighten, installation takes about three minutes, regardless of pipe diameter.
- Standard Alpha accommodates IPS PVC pipe through Ductile Iron pipe diameters.
- Alpha XL covers Ductile Iron through Oversize Cast Iron pipe sizes.
- Accommodates up to 8 degrees of deflection (4 on each side).
- The handle, located on top of the coupling, helps when positioning the coupling during installation.
- Manufactured in the U.S.A.
- US Patent: 8,894,100



SIMPLE AND FAST INSTALLATION



STEP 1: Slide ALPHA over the pipe gap.



STEP 2: Tighten nuts to the appropriate torque.



A restrained joint with a working pressure of up to 350 psi installed in less than 3 minutes.

ALPHA™



WIDE RANGE RESTRAINED COUPLING

MATERIAL SPECIFICATIONS

CASTINGS: All cast components (end ring, center ring and bolt guide) are ductile iron, meeting or exceeding the requirements of ASTM A 536, grade 65-45-12.

GRIPPERS: Ductile (nodular) iron, meeting or exceeding ASTM A 536, grade 65-45-12. Machine sharpened and heat treated. Xylan 1424 coated for enhanced corrosion protection.

GASKET: SBR compounded for water and sewer service per ASTM D2000 - classified by UL to meet NSF61, or NBR compounded for water and sewer service in accordance with ASTM D2000 and NSF61 Certified. Other compounds available upon request.

DRAW-HOOK FASTENERS: 304L stainless steel.

RAMP RUNNERS: Reinforced nylon.

BOLT & NUT: 304 stainless steel, 5/8-11 bolt with heavy hex e-coated nut. Fasteners provided with anti-galling protection.

COATINGS: Center ring is Romacoat fusion bonded epoxy. End ring is Romabond Polyester.

WORKING PRESSURE: up to 350 PSI.

GASKET RANGE CONFIGURATION OPTIONS

Alpha can be configured in one of three ways.



STANDARD ALPHA

Standard Alpha accommodates IPS PVC through Ductile Iron pipe diameters.



ALPHA XL

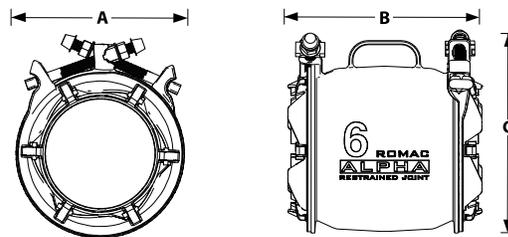
Alpha XL accommodates Ductile Iron through Oversize Cast Iron pipe diameters.



ALPHA TRANSITION COUPLING

In this configuration, Alpha provides a transition from IPS PVC pipe diameters up to Oversize Cast Iron pipe diameters.

DIMENSIONS



NOM. PIPE SIZE	ALPHA GASKET RANGE CONFIGURATIONS						DIMENSIONS			APPROXIMATE WEIGHT (lbs.)
	SIDE ONE select gasket range		BY	SIDE TWO select gasket range		A	B	C		
	ALPHA RANGE	GASKET RANGE		ALPHA RANGE	GASKET RANGE	O.D.	LENGTH	HEIGHT		
4"	STD. ALPHA	4.50 - 4.90	X	STD. ALPHA	4.50 - 4.90	9.18	11.85	10.53	40	
	ALPHA XL	4.80 - 5.10		ALPHA XL	4.80 - 5.10					
6"	STD. ALPHA	6.60 - 7.00	X	STD. ALPHA	6.60 - 7.00	10.33	11.98	12.77	50	
	ALPHA XL	6.90 - 7.20		ALPHA XL	6.90 - 7.20					
8"	STD. ALPHA	8.60 - 9.10	X	STD. ALPHA	8.60 - 9.10	13.45	13.19	15.67	75	
	ALPHA XL	9.05 - 9.40		ALPHA XL	9.05 - 9.40					
10"	STD. ALPHA	10.75 - 11.20	X	STD. ALPHA	10.75 - 11.20	15.54	12.74	17.61	95	
	ALPHA XL	11.10 - 11.45		ALPHA XL	11.10 - 11.45					
12"	STD. ALPHA	12.75 - 13.30	X	STD. ALPHA	12.75 - 13.30	17.59	13.30	19.73	100	
	ALPHA XL	13.20 - 13.60		ALPHA XL	13.20 - 13.60					

Information contained in this document is subject to change. Contact Romac Industries for any updates.

ALPHA™ EC



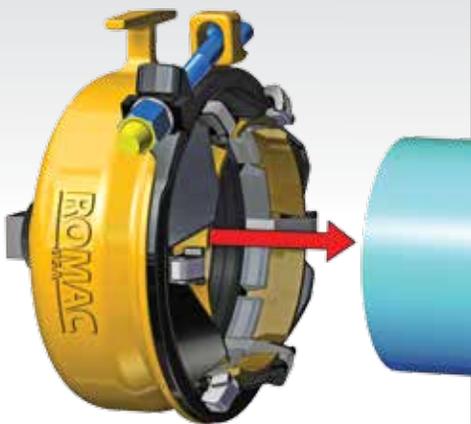
WIDE RANGE RESTRAINED END CAP

The Alpha EC provides a fast, easy way to cap plain-end pipe and has all the advantages as the original Alpha Coupling.

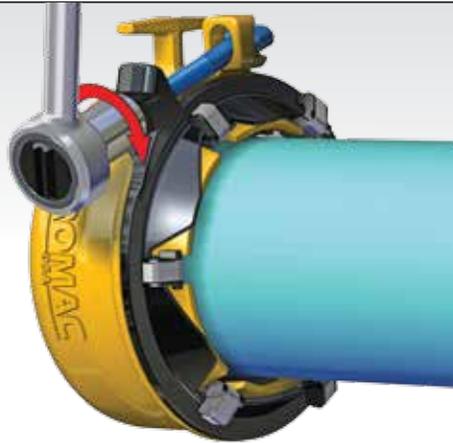
- With just one nut to tighten, the stab-fit Alpha End Cap installs fast.
- Standard Alpha End Caps cover IPS PVC through Ductile Iron pipe diameters.
- Alpha XL End Caps accommodate Ductile Iron through Oversize Cast Iron pipe diameters.
- Two-inch IP threaded outlet is standard.
- Designed for repeated use, the Alpha EC can also be used as a reliable pipe end seal for permanent installations.
- Made in the U.S.A.
- US Patent: 8,894,100



SIMPLE AND FAST INSTALLATION



STEP 1: Insert ALPHA End Cap onto the pipe end.



STEP 2: Tighten nut to the appropriate torque.



The outlet allows for blow-off and draining the line.

ALPHA™ EC



WIDE RANGE RESTRAINED END CAP

MATERIAL SPECIFICATIONS

CASTINGS: All cast components (end ring, center ring and bolt guide) are ductile iron, meeting or exceeding the requirements of ASTM A 536, grade 65-45-12.

GRIPPERS: Ductile (nodular) iron, meeting or exceeding ASTM A 536, grade 65-45-12. Machine sharpened and heat treated. Xylan 1424 coated for enhanced corrosion protection.

GASKET: SBR compounded for water and sewer service per ASTM D2000 - classified by UL to meet NSF61, or NBR compounded for water and sewer service in accordance with ASTM D2000 and NSF61 Certified. Other compounds available upon request.

DRAW-HOOK FASTENERS: 304L stainless steel.

RAMP RUNNERS: Reinforced nylon.

BOLT & NUT: R-Blue. HSLA. Xylan coated to reduce friction and provide corrosion protection. Washer is 304 stainless steel.

COATINGS: End cap is Romacoat fusion bonded epoxy. End ring is Romabond Polyester.

WORKING PRESSURE: up to 350 PSI.

GASKET RANGE CONFIGURATIONS

Alpha End Caps are available in two configurations.



STANDARD ALPHA END CAP

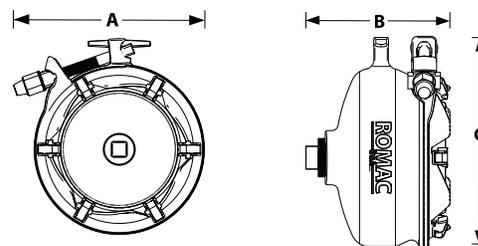
Alpha End Caps accommodate IPS PVC pipe through Ductile Iron pipe diameters.



ALPHA XL END CAP

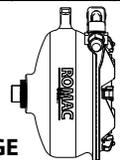
Alpha XL End Caps covers Ductile Iron through Oversize Cast Iron pipe diameters.

DIMENSIONS



ALPHA EC GASKET RANGES

NOMINAL PIPE SIZE



END RING
select gasket range

ALPHA RANGE

GASKET RANGE

NOMINAL PIPE SIZE	ALPHA EC GASKET RANGES		DIMENSIONS			APPROXIMATE WEIGHT (lbs.)
	ALPHA RANGE	GASKET RANGE	A O.D.	B LENGTH	C HEIGHT	
4"	STD. ALPHA	4.50 - 4.90	10.20	7.15	9.70	21
	ALPHA XL	4.80 - 5.10				
6"	STD. ALPHA	6.60 - 7.00	11.35	7.75	11.90	30
	ALPHA XL	6.90 - 7.20				
8"	STD. ALPHA	8.60 - 9.10	13.40	9.45	15.00	52
	ALPHA XL	9.05 - 9.40				
10"	STD. ALPHA	10.75 - 11.20	15.45	9.75	17.10	63
	ALPHA XL	11.10 - 11.45				
12"	STD. ALPHA	12.75 - 13.30	17.50	10.10	19.15	78
	ALPHA XL	13.20 - 13.60				

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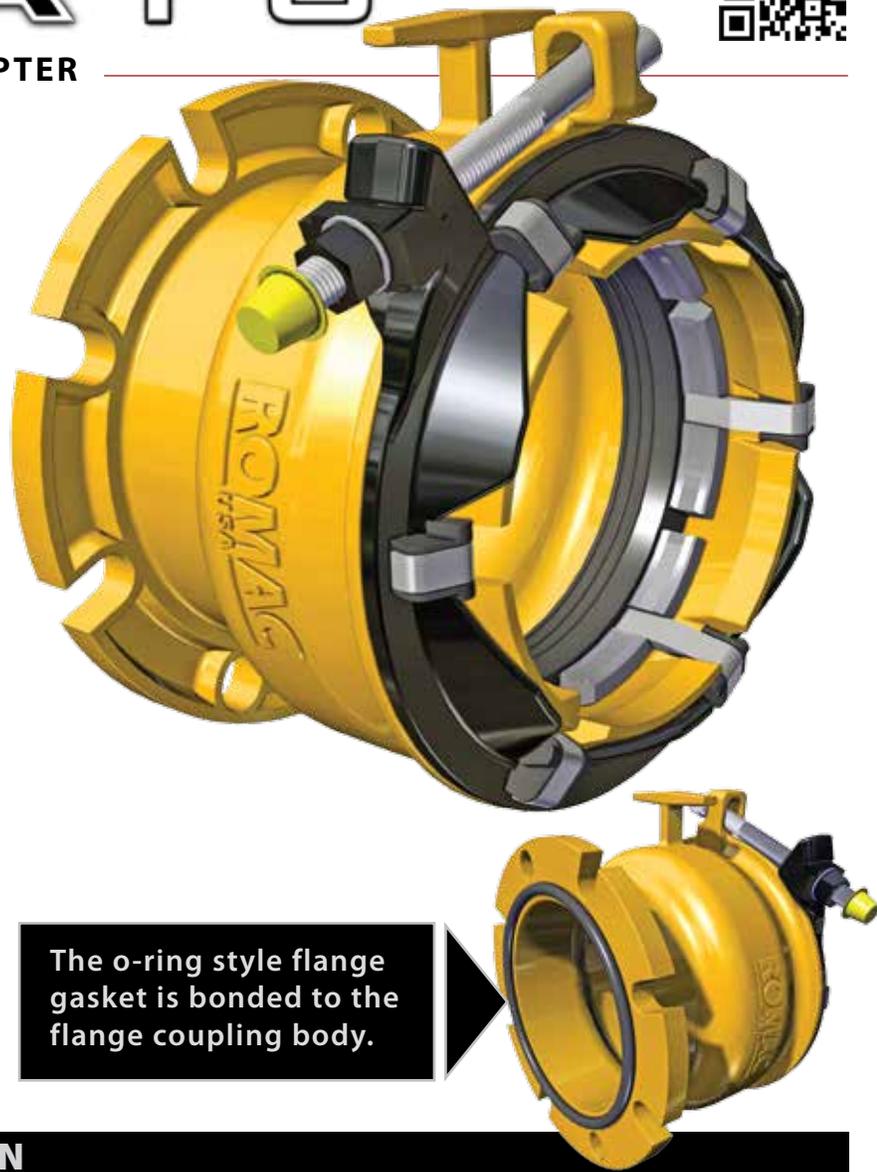
ALPHA™ FC



RESTRAINED FLANGE COUPLING ADAPTER

The Alpha FC provides the quickest way to adapt plain end pipe to flanged fittings.

- Once you've assembled the flanged joint, installation is simply inserting the plain end pipe and tightening one nut.
- Alpha FC flange is compatible with ANSI Class 125 and 150 bolt circles.
- Standard Alpha Flanged Couplings fit IPS PVC through Ductile Iron pipe diameters.
- Alpha XL Flanged Couplings fit Ductile Iron through Oversize Cast Iron pipe diameters.
- One nut dismantling allows for quick and easy access of valves and other fittings.
- The Alpha Flanged Coupling also accommodates flanged spool pieces for mating to valves and other fittings.
- US Patent: 8,894,100



The o-ring style flange gasket is bonded to the flange coupling body.

SIMPLE AND FAST INSTALLATION



STEP 1: Assemble the flange joint using flange bolts.



STEP 2: Insert pipe and tighten nut.



ALPHA FC is the fast way to connect and restrain plain end pipe to a flanged connection



RESTRAINED FLANGE COUPLING ADAPTER

MATERIAL SPECIFICATIONS

CASTINGS: All cast components (end ring, center ring and bolt guide) are ductile iron, meeting or exceeding the requirements of ASTM A 536, grade 65-45-12.

FLANGE Compatible with ANSI Class 125 and 150 bolt circles.

GRIPPERS: Ductile (nodular) iron, meeting or exceeding ASTM A 536, grade 65-45-12. Machine sharpened and heat treated. Xylan 1424 coated for enhanced corrosion protection.

GASKET: SBR compounded for water and sewer service per ASTM D2000 - classified by UL to meet NSF61, or NBR compounded for water and sewer service in accordance with ASTM D2000 and NSF61 Certified. Other compounds available upon request. Flange gasket is o-ring style (NBR is standard).

DRAW-HOOK FASTENERS: 304L stainless steel.

RAMP RUNNERS: Reinforced nylon.

BOLT & NUT: 304 stainless steel, 5/8-11 bolt with heavy hex e-coated nut. Fasteners provided with anti-galling protection.

COATINGS: Flange coupling body is Romacoat fusion bonded epoxy. End ring is Romabond Polyester.

WORKING PRESSURE: up to 350 PSI.

GASKET RANGE CONFIGURATIONS

Alpha Flange Couplings are available in two configurations.



STANDARD ALPHA FLANGED COUPLING

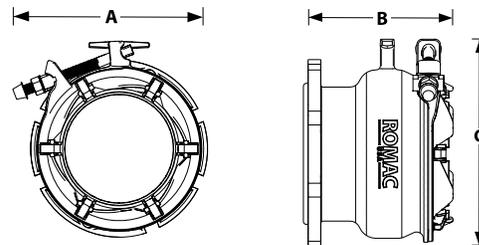
Alpha Flanged Coupling accommodate IPS PVC pipe through Ductile Iron pipe diameters.



ALPHA XL FLANGED COUPLING

Alpha XL Flanged Coupling covers Ductile Iron through Oversize Cast Iron pipe diameters.

DIMENSIONS



NOMINAL PIPE SIZE	ALPHA FC GASKET RANGES		DIMENSIONS			APPROXIMATE WEIGHT (lbs.)
	ALPHA RANGE	GASKET RANGE	A	B	C	
			O.D.	LENGTH	HEIGHT	
4"	STD. ALPHA	4.50 - 4.90	11.20	8.15	10.25	29
	ALPHA XL	4.80 - 5.10				
6"	STD. ALPHA	6.60 - 7.00	11.35	8.24	12.45	40
	ALPHA XL	6.90 - 7.20				
8"	STD. ALPHA	8.60 - 9.10	13.40	9.96	15.55	57
	ALPHA XL	9.05 - 9.40				
10"	STD. ALPHA	10.75 - 11.20	15.45	10.18	17.65	82
	ALPHA XL	11.10 - 11.45				
12"	STD. ALPHA	12.75 - 13.30	17.50	10.28	19.70	105
	ALPHA XL	13.20 - 13.60				

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