Product Instructions

Insulation Kits for Insulated Piping

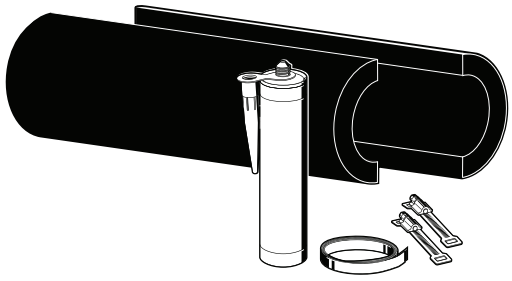
Description
Insulation kits are intended to be used with the Viega Insulated Piping System. Insulation kits are ideally suited for below ground insulation of heating or cooling pipes within the service temperature. When properly sized and installed, insulation kits will match the thermal properties of the insulated pipe.

Features
- Insulation kits contain:
  - Two insulation shell halves
  - Screw clamps to secure shell halves together
  - Caulking tube and nozzle to waterproof in the field
- No special tools required
- Equivalent insulation value as adjacent piping

Specifications
- Maximum service temperature: 203° F (95° C)
- Material, insulation: Polyurethane or polyisocyanurate foam
- Material, coating: Two component high density polyurethane
- Material, caulking: 100% silicone
- Density: (ASTM D 1622) 27 to 32 kg/m3 (1.7 to 2 lbs/ft3).
- Compressive strength: (ASTM D 1621) 131 to 158 kPa (19 to 23 lbs/in2)
- Closed cell content: 90% minimum.
- Water absorption: 4% by volume
- K factor: (ASTM C 518) 0,027 W/m°C (0.19 Btu. In/ft2.hr.0F)
- Thickness: shall match pipe insulation

Compatibility

Insulation kit for couplings
The following tables list the part number of the insulation kit in the first column and the compatible compression fitting (based on pipe jacket size) in the second column. For example, if a 1" x 1" coupling is being used (part number 11571), find that part in the compatible coupling section and choose insulation kit part number 11541.

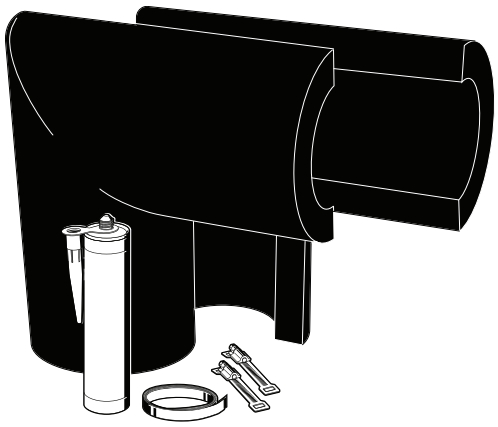


Single pipe coupling	
Insulation Kit Part No	**Compatible Coupling**
11540	11531 11571 11610
11541	11611
11542	11612
11543	11613
11544	11614
11545	11615

Dual pipe coupling	
Insulation Kit Part No	**Compatible Coupling**
11541	11531, 11571
11542	11610
11544	11611
11545	11612
11544	11614
11545	11615

Product Instructions

Insulation kit for elbows



Single pipe Elbow	
Insulation Kit Part No	**Compatible Elbow**
11546	11535 11573 11616
11547	11617
11548	11618
11549	11619
11550	11620
11551	11621

Dual pipe Elbow	
Insulation Kit Part No	**Compatible Elbow**
11547	11535 11573
11548	11616
11550	11617
11551	11618
11550	11620
11551	11621

Product Instructions

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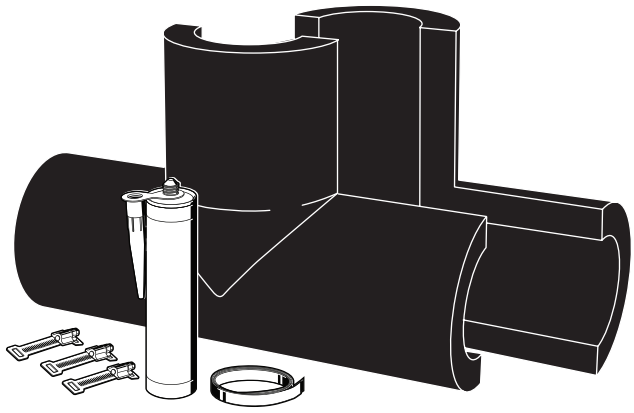
Insulation kit for tees



Single pipe Tee	
Insulation Kit Part No	**Compatible Tee Fitting**
11560	11533 11572 11664 11637 11638 11631
11589	11665 11666 11667
11576	11639 11640 11641
11561	11632
11590	11668 11669 11670
11591	11671
11577	11642 11643 11644
11578	11645
11562	11633
11592	11672 11673 11674
11593	11675
11594	11676
11579	11646 11647 11648
11580	11649
11581	11650
11563	11634
11595	11677 11678 11679
11596	11680
11597	11681
11598	11682
11582	11651 11652 11653 11683 11684 11685 11657 11658 11659
11583	11654 11686 11660
11584	11655 11687 11661
11585	11656 11688 11662
11564	11635 11689 11663 11636

Dual pipe Tee	
Insulation Kit Part No	**Compatible Tee Fitting**
11561	11533 11572
11591	11664
11578	11637 11638
11562	11631
11599	11665 11666
11600	11667
11583	11639 11640
11584	11641
11564	11632
11601	11668 11669
11602	11670
11603	11671
11586	11642 11643
11587	11644
11588	11645
11565	11633

Product Instructions

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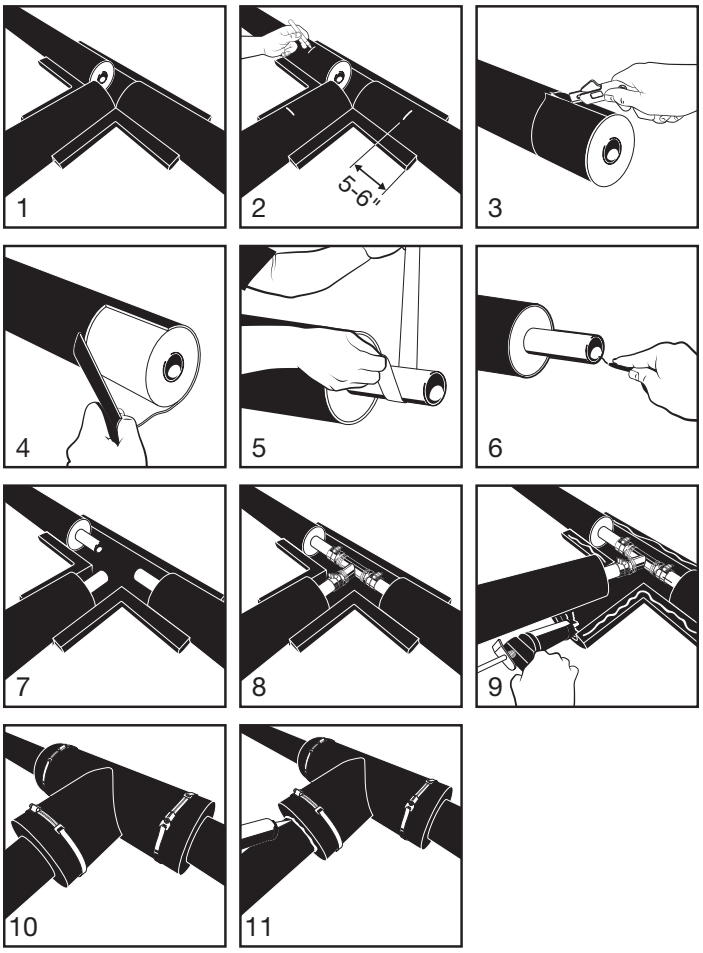
Installation



1. Place one half of insulation shell under intersecting piping. Be sure piping will fit inside insulation shell cavity as well as long enough to connect to fitting.
2. Place pipe end at internal edge of the shell cavity. Mark pipe 5-6 inches from end of shell as shown in the diagram.
3. At the mark made in step 2, cut around the circumference of the outer jacket. From this cut slice out to the edge.
4. Pry away the jacket from the piping.
5. Using a carpet or drywall knife, paint scraper, sandpaper, and/or emery pad, remove the insulation and clean the newly exposed carrier tube.
6. Cut square and de-burr the carrier pipe. Remove any debris from inside pipe.
7. Replace piping in bottom half of insulation shell. Be sure piping insulation is contacting insulation shell all the way around.
8. Reference the Connecting Fittings section to appropriately attach piping.
9. Caulk around all insulation contact points; outer jacket to shell and bottom half of shell to top half of shell.
10. Use screw clamps to secure insulation shell halves together.
11. Use caulking to seal any remaining gaps between the piping and insulation shell.

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