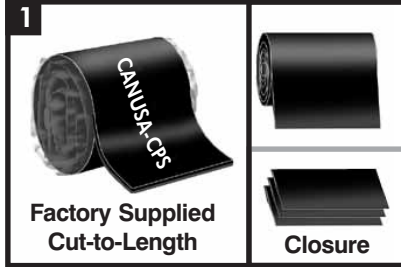


## Aqua-Shield™ AQW

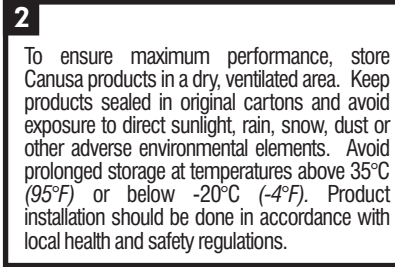
Two-piece protective bulk roll with separate closure

### Product Description



Aqua-Shield™ AQW is typically shipped in pre-cut lengths. Closures are shipped pre-cut with the sleeves. The adhesive is protected from contamination by an inner liner.

### Storage & Safety Guidelines



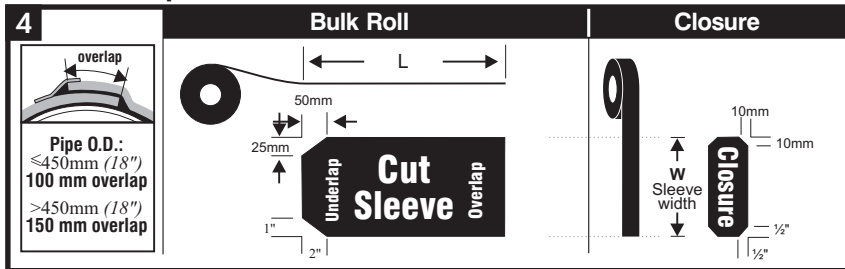
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

### Equipment List



Propane tank, hose, torch & regulator.  
Appropriate tools for surface abrasion.  
Knife, roller, rags & approved cleaner.  
Digital thermometer with suitable probe.  
Standard safety equipment; gloves, goggles, hard hat, etc.

### Product Preparation Guidelines



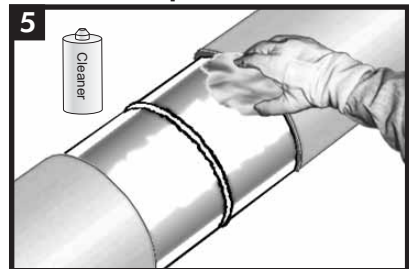
As a guideline, cut the required lengths of Sleeve material (L) and Closure material (W) from the bulk roll as follows

$$L = \text{Coated Pipe circumference} + \text{overlap dimension} \quad W = \text{Sleeve Width}$$

Refer to chart below for pipe O.D. and overlap dimensions

Ensure that the sleeve and closure are not damaged or contaminated. Trim corners as shown (optional).

### Surface Preparation



Clean exposed steel and adjacent pipe coating with cleaner to remove the presence of oil, grease, and other contaminants. Changes in profile at butt-weld straps and bell & spigot details should be filled with an approved filler tape sealant prior to sleeve application.

### Flame Intensity & Torch Size

**6**

Pipe O.D. ≤450mm (18")

Pipe O.D. >450mm (18")

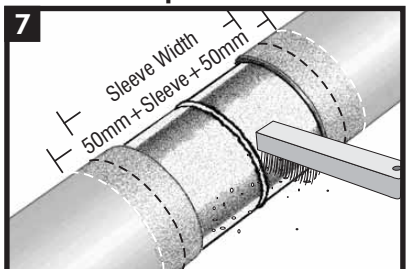
Use moderate flame intensity for pre-heating and shrinking.

Use moderate to high flame intensity for pre-heating and shrinking.

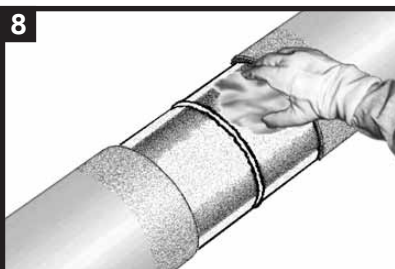
Minimum Torch Size: 150,000 BTU/hr.

Minimum Torch Size: 300,000 BTU/hr. >1500mm (60") use 2 torches.

### Surface Preparation

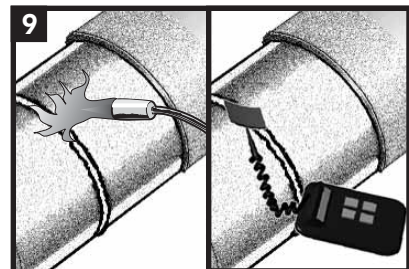


Ensure that the pipe is dry before cleaning. The steel joint area must be cleaned to a minimum of a wire brush finish. It is recommended to lightly abrade (with a hand tool) the pipe coating adjacent to the weld area to a distance of 50mm (2") beyond each end of the sleeve width.



Wipe clean or air blast the steel and pipe coating to remove foreign contaminants.

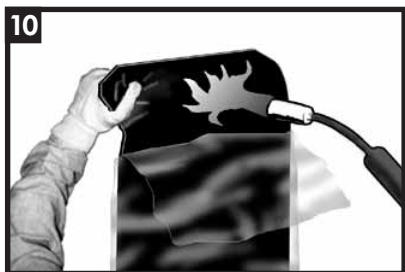
### Pre-Heat



Pre-heat the steel joint area using propane torches such that no moisture is visible (typically temperatures of 40-60°C (100-140°F) are recommended on sleeve area). On pipe diameters greater than 1220mm (48"), use two torches on opposite sides. Apply the sleeve rapidly to minimize loss of pre-heat.

# Aqua-Shield™ AQW

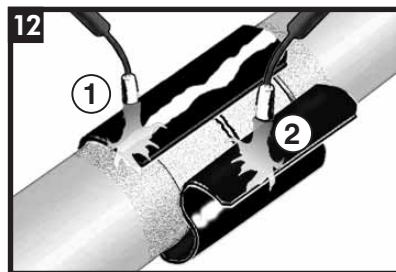
## Sleeve Installation



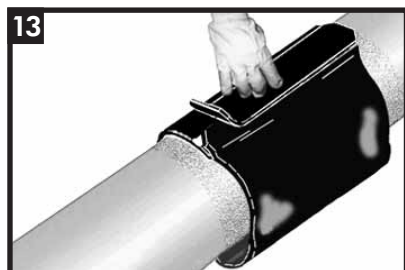
Partially remove the release liner and gently heat the underlap approximately 150 mm (6") from the edge.



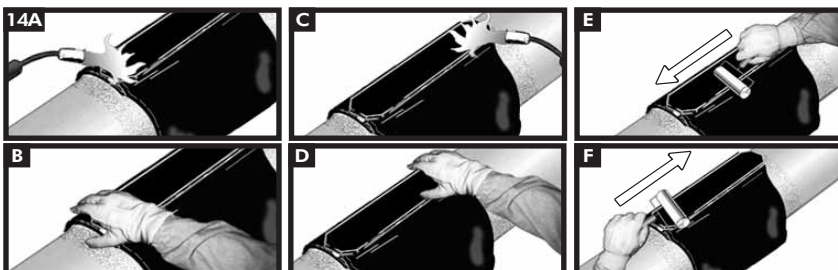
Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place and remove the remaining release liner.



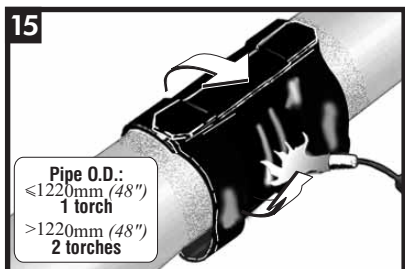
Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap. Press the overlap into place.



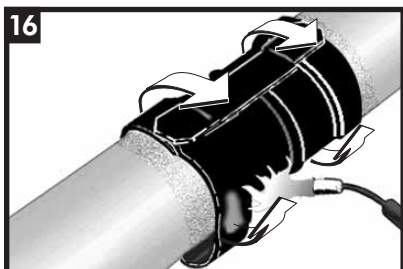
Remove any release liners from the closure. Centre the closure on the overlapping sleeve. Press down firmly.



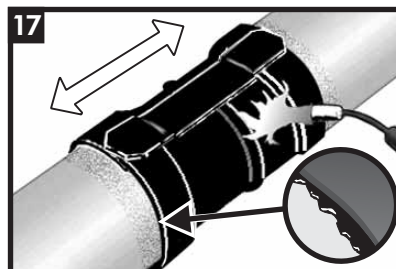
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



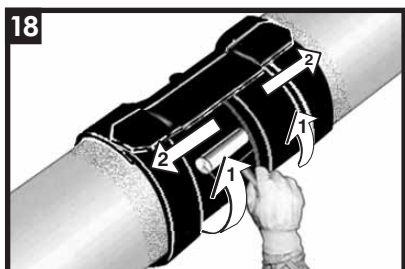
Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



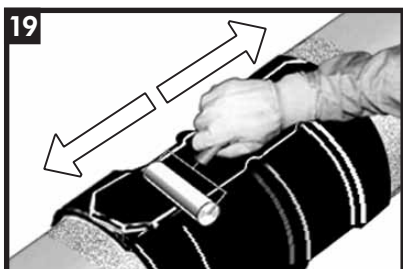
Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side.



Shrinkage has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.

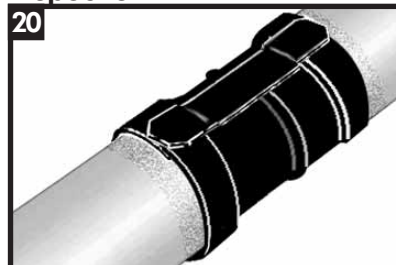


While the sleeve is still hot and soft, use a hand roller to gently roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. If necessary, reheat to roll out air.



Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.

## Inspection



Visually inspect the installed sleeve for the following:

- Sleeve is in full contact with the steel joint.
- Adhesive flows beyond both sleeve edges.
- No cracks or holes in sleeve backing.

## Backfilling Guidelines

After shrinking is complete, allow the sleeve to cool prior to backfilling. To prevent damage to the sleeve, use selected backfill material, (no sharp stones or large particles) otherwise an extruded polyethylene mesh or other suitable shield should be used.



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