

Aqua-Shield® AQW-WAB System

Dual, Two-piece protective sleeves with separate closures
(W-A-B Option)

Product Description



Aqua-Shield® AQW is typically shipped in bulk rolls. The adhesive is protected from contamination by an inner liner. Closures are shipped either in bulk rolls or pre-cut.

Equipment List



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

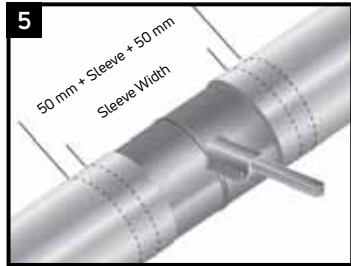
Flame Intensity & Torch Size

<p>3</p> <p>Pipe O.D. ≤ 450 mm (18")</p> <p>Use moderate flame intensity for pre-heating and shrinking.</p>	<p>Pipe O.D. > 450 mm (18")</p> <p>Use moderate to high flame intensity for pre-heating and shrinking.</p>
<p>Minimum Torch Size: 150,000 BTU/hr.</p>	<p>Minimum Torch Size: 300,000 BTU/hr. >1500mm (60") use 2 torches.</p>

Surface Preparation



Clean exposed steel and adjacent pipe coating with solvent to remove the presence of oil, grease, and other contaminants if present.



Ensure that the pipe is dry before cleaning. The steel joint area must be cleaned to a minimum of St2, wire brush finish. Abrade the pipe coating adjacent to the weld area with 60-80 grit sandpaper 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 (105-140°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.

Filler Application

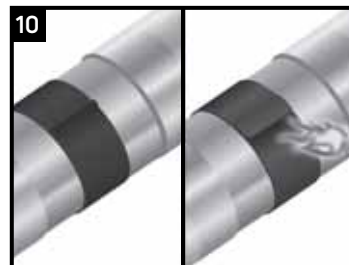


Immediately after preheat apply filler up against face of bell and press to form smooth transition from bell to spigot.

Underlay Installation



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



Remove the remaining release liner and loosely wrap the underlay sleeve around the pipe, ensuring the overlap is sufficient. Centre the closure on the overlapping sleeve and apply by warming with the torch and pressing down firmly. Align underlay sleeve with edge of bell.

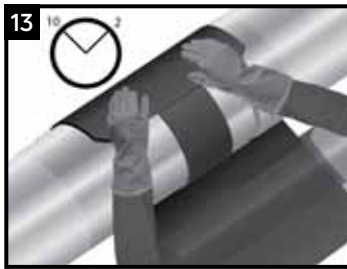


Using the appropriate torch, use broad strokes and heat circumferentially around the pipe to recover and adhere the underlay sleeve.

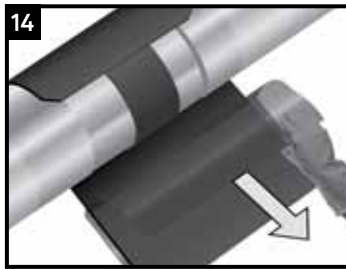
Sleeve Installation



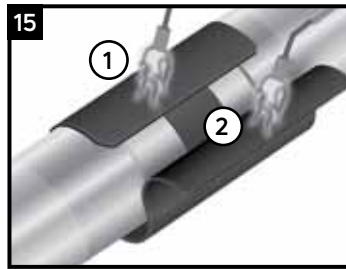
Partially remove the release liner and gently heat the underlap approximately 150 mm (6") from the edge.



Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the undertlap firmly into place.



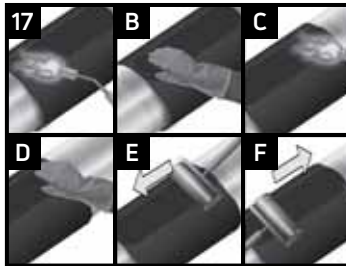
Remove the remaining release liner and the hold-down strip tape on the undertlap of the closure.



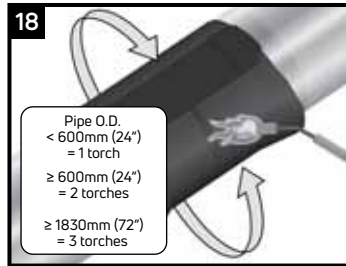
Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the undertlap and the adhesive side of the overlap. Press the overlap into place.



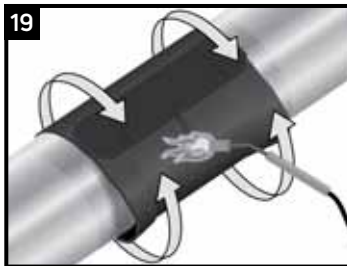
Remove any release liners from the Closure Strip. Centre the closure on the overlapping sleeve. Press down firmly.



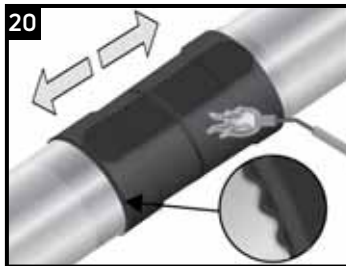
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



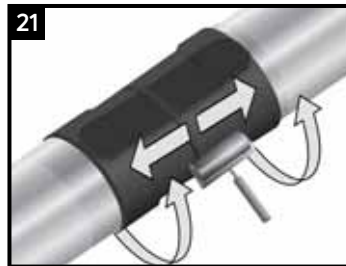
Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



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.



Shrinking 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.

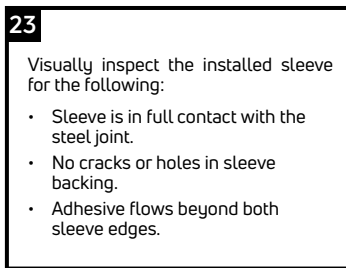


While the sleeve is still hot and soft, use a hand roller to gently roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. If necessary, reheat to roll out air.



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.
- No cracks or holes in sleeve backing.
- Adhesive flows beyond both sleeve edges.

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.

Storage & Safety Guidelines

To ensure maximum performance, store Canusa products in a dry, ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid storage at temperatures above 35°C (95°F) or below -20°C (-4°F). Product installation should be done in accordance with local health and safety regulations.

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

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Quality Management system registered to ISO 9001

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this installation guide is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE

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