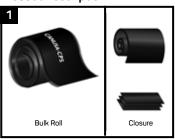
CANUSA-CPS

GTS-HT

Two-piece sleeve for girth-weld protection of high operating temperature FBE coated pipelines

Product Description



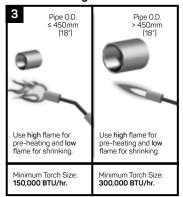
GTS-HT is typically shipped in bulk rolls. CLH closures are shipped either in bulk rolls or pre-cut.

Equipment List

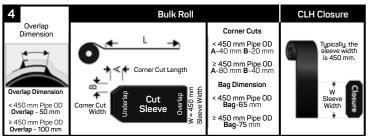


Propane tank, hose, torch & regulator; Appropriate tools for surface abrasion; Knife, roller, rags & approved solvent cleanser; Digital thermometer with suitable probe; Standard safety equipment; gloves, goggles, hard hat, etc.

Flame Intensity & Torch Size



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 = coated pipe circumference + overlap dimension + bag dimension $W = Sleeve\ Width$

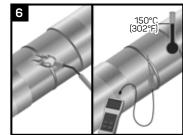
Ensure that the sleeve and closure are not damaged or contaminated. Trim corners as shown.

Surface Preparation



Warm the joint area to 40-50°C before grit blasting. Thoroughly clean the weld area with a grit blaster to "near white metal". Lightly abrade the line coating adjacent to the weld area to a distance 50mm (2") beyond the sleeve width. Wipe clean or air blast the steel and coated areas to remove foreign materials.

Pre-Heat

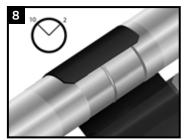


Pre-heat the joint area and the abraded coating to 150°C (302°F) with the appropriate propane torch. Using a temperature measuring device, ensure that the correct temperature is reached on steel and at least 50 mm (2") on each side of the sleeve.

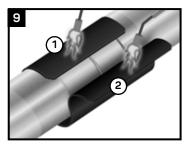
Sleeve Installation



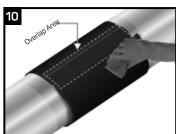
Gently heat the underlap approximately 150 mm (6") from the edge.



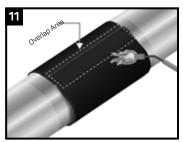
Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place.



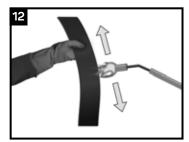
Wrap the sleeve around the pipe, ensuring the appropriate overlap (see box 4). Gently heat the backing of the underlap and the adhesive side of the overlap. Press the overlap into place.



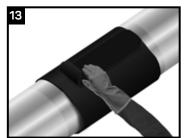
Before applying the closure seal, clean the overlap area of the sleeve with a dry rag and...



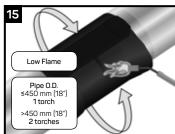
slightly heat the overlap area of the sleeve (where the closure is going to be applied) by moving the flame from side to side.



Cut and prepare the CLH closure seal as noted in Box 4. Pre-heat the adhesive side of the entire closure evenly using a low flame until a shiny finish develops on the adhesive.



Centre the closure seal on the overlapping sleeve. Using a gloved hand, press the closure seal firmly down onto the sleeve. Press from the centre to the ends to ensure good contact is made between the entire closure seal and sleeve.

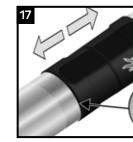


Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.

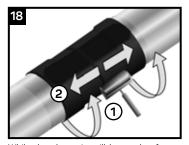


Once the closure seal is in place, gently heat with a medium flame. Using a gloved hand ensure the closure seal is evenly in contact with the sleeve. Smooth any wrinkles or air products by gently working them outward from the centre of the closure seal with a roller or a gloved hand.

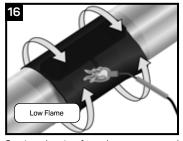
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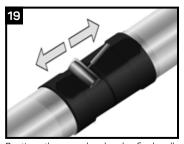
Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface, including closure, to ensure a uniform bond.



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



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

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

Backfilling Guidelines

After shrinking is complete, allow the sleeve to cool for 2 hours prior to lowering and 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 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 warrantu stated in the standard terms and condition 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&DE

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 prolonged storage at temperatures above 45°C (115°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 specifi c projects or

Quality Management system registered to ISO 9001

d safety regulations.

unique applications.

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