

## AQW-FPK Aqua-Shield Flange Protection Kit

For corrosion protection of large, high-profile flanges

### Required Kit Components



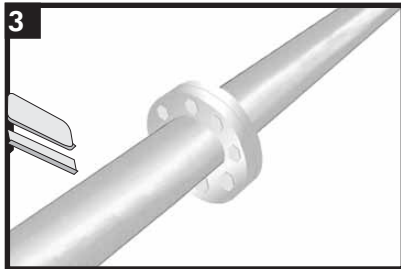
Flange Protection Kits contain finger skirting, a snap-fit shrink sleeve and a closure. The system is a high shrink sleeve system which fits on large, high-profile flanged joints for corrosion protection. To ensure maximum performance, store Canusa products in a dry ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. Avoid prolonged storage at temperatures above 35°C (95°F) or below -10°C (14°F). Product installation should be done in accordance with local health and safety regulations.

### Equipment List



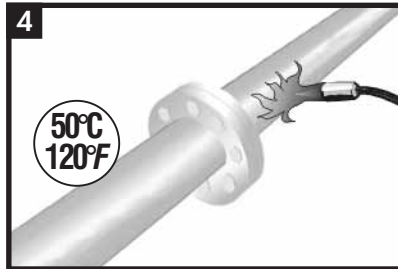
Propane tank, hose, torch & regulator.  
 Appropriate tools for surface abrasion.  
 Knife, roller, rags & approved solvent cleanser.  
 Temperature measuring device.  
 Hammer, small flat-head screw driver, needle-nose pliers.  
 Standard safety equipment; gloves, goggles, hard hat, etc.

### Surface Preparation



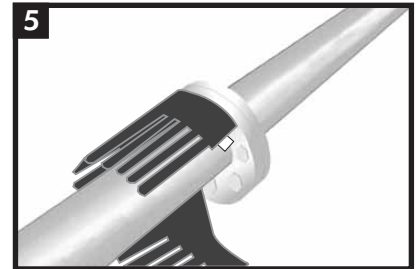
Remove all dirt and rust by grit or shot blasting, needle gunning and wire brushing, or other approved technique.

### Pre-Heat

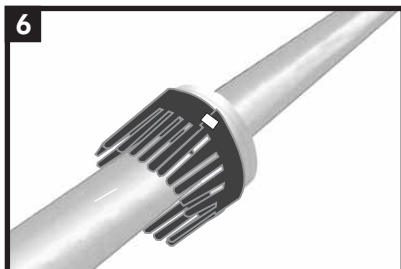


Using an appropriate heating device, pre-heat the pipeline to 50°C (120°F) (warm to the touch) and heat the flange to remove moisture.

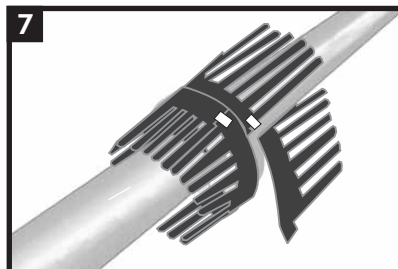
### Skirting Installation



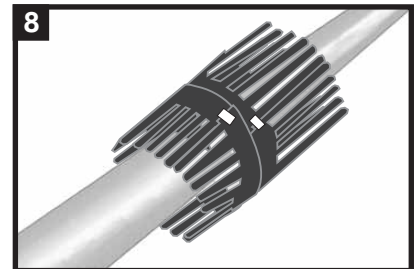
Wrap the finger skirting around one half of the flange. The fingers should point towards the flange bolts.



Finish wrapping the skirting around the flange. Use a piece of tape to secure the skirting in place.

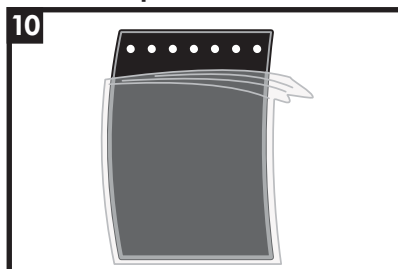


Centre the protective skirting over the flange. Using the tape provide, attach the skirting to the flange. Begin wrapping the protective skirting around flange tightly.



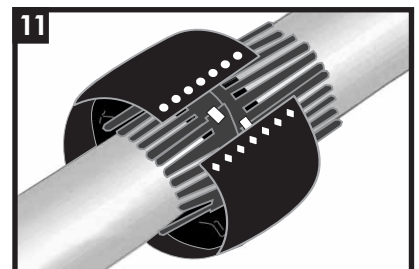
Finish wrapping the protective skirting around the flange. Using the supplied tape, firmly attached the protective skirting around the flange.

### Sleeve Preparation

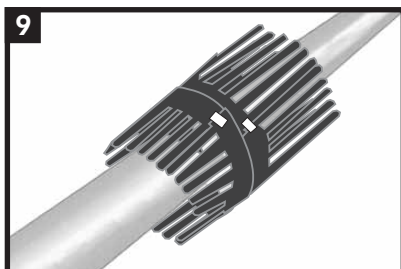


Remove the release liner from the sleeve.

### Sleeve Installation



Centre the two middle clips on either side of the flange and wrap the sleeve around the joint to match the insert holes over the clips.



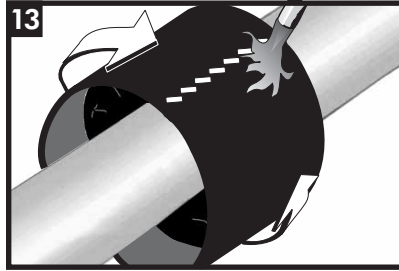
Ensure the skirting is well secured to the flange and it will protect the sleeve from the flange bolts.

# AQW-FPK

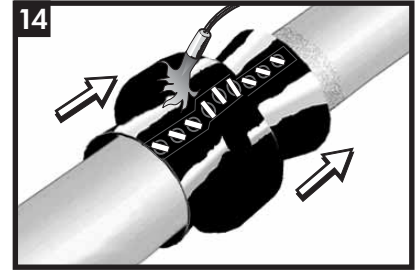
## Sleeve Installation - cont'd



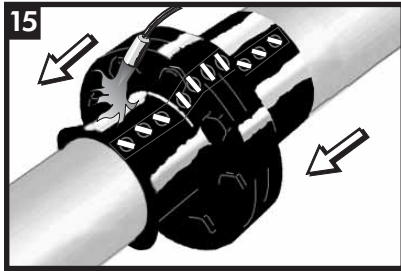
Insert the clips through the holes, push down the closure area to conform to the joint profile. Insert the flat-head screwdriver into the clips and flatten clips with gentle blows from a hammer (use needle-nose pliers if clips become bent or irregularly shaped).



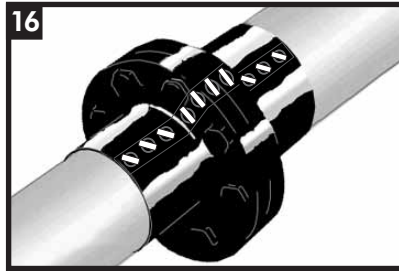
Using broad strokes, heat the sleeve circumferentially around the pipe starting with the centre of the flange. Do not touch or damage the sleeve while it is hot.



Continue heating from the centre towards the pipe on each side so that the sleeve begins to recover on one side then the other. If the sleeve begins to fan outwards, use a gloved hand to guide the recovery towards the pipe.



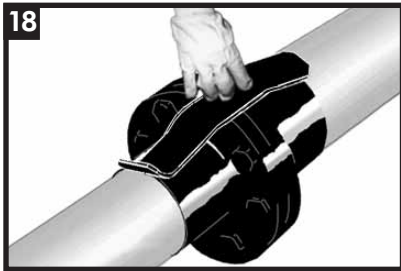
Continue from side to side until recovery is complete.



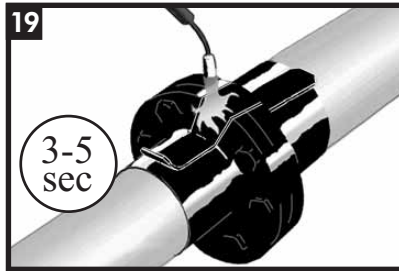
Gently push down the sleeve so it conforms to the flange profile.



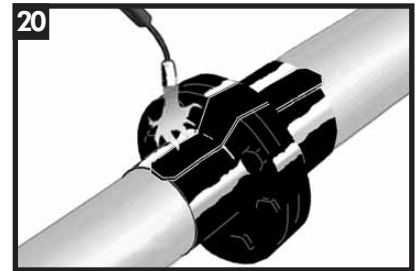
Remove the release liner from the adhesive side of the closure.



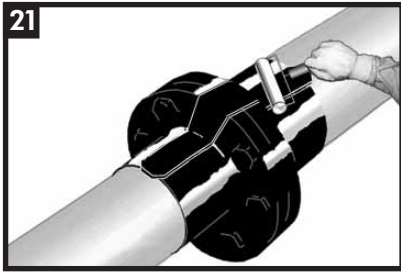
Using a gloved hand, apply the closure over the flange clips as additional protection.



Apply low heat to the closure and press it down with a gloved hand until it conforms to the flange profile.

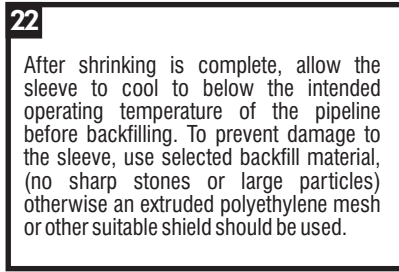


Apply an even final heating to the entire closure seal.



Apply a final rolling to secure the closure seal.

## Backfilling Guidelines



After shrinking is complete, allow the sleeve to cool to below the intended operating temperature of the pipeline before 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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