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# INSTALLATION & OPERATION GUIDE

**Please the installation guide before use**

## 1. Product Overview

SS Bend CNC Thread products are steel bends with CNC-machined threaded connections, designed for compatible pipe and fitting assemblies. They are used to change the direction of compatible irrigation and water-delivery pipework.

## 2. Before Installation

- Select the bend according to the nominal thread size of the mating pipe or fitting.
- Confirm thread compatibility before installation.
- Confirm the required bend orientation and pipe route.
- Inspect the bend and mating components for visible damage, contamination, or damaged threads.
- Ensure connected pipework will be properly supported after installation.

## 3. Installation Procedure

- Clean: Clean the mating threads and remove dirt, debris, and loose material.
- Apply thread seal: Where required, apply a suitable thread-sealing method according to the sealant manufacturer's instructions.
- Start by hand: Engage the threads by hand first and make sure the connection starts straight to prevent cross-threading.
- Tighten carefully: Use an appropriate wrench and tighten without excessive force. Do not over-tighten.
- Set orientation: Position the bend in the required direction without forcing the connected pipework into alignment.
- Support pipework: Provide suitable support so the bend is not subjected to cantilever, bending, or side loads.
- Inspect: Examine the complete joint and sealing arrangement before commissioning.

## 4. Commissioning & Operation

- Introduce water gradually after installation.
- Inspect the threaded connection during initial operation for leakage or movement.
- If leakage occurs, isolate and depressurize the system before making corrections.
- Do not continue tightening a damaged or cross-threaded joint; dismantle and inspect it.

## 5. Maintenance

- Periodically inspect connections for leakage, movement, or visible damage.
- Keep exposed threaded areas reasonably clean during maintenance.
- When removing and reinstalling the bend, inspect the threads and renew the thread seal as appropriate.
- Replace the fitting if threads are damaged or the fitting is deformed or otherwise unsuitable

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for service.

## 6. Safety

- Isolate and depressurize the water system before dismantling any connection.
- Use suitable tools and appropriate personal protective equipment for the installation environment.
- Do not force mismatched or damaged threads.
- Do not assume a pressure rating unless one is specified for the particular product/system.
- Support connected pipework to prevent excessive mechanical load on the bend.

## 7. Troubleshooting

- If there is a leak at the threaded joint: Isolate the system; check thread compatibility, alignment, seal, and tightening. Reassemble correctly if required.
- If Threads will not engage: Stop and verify thread size/type. Inspect for damaged or contaminated threads.
- If Bend is under strain: Realign and support the connected pipework. Do not use the fitting to force alignment.
- If the leak persists: Inspect mating threads, seals, and fittings for damage. Replace damaged components as necessary.