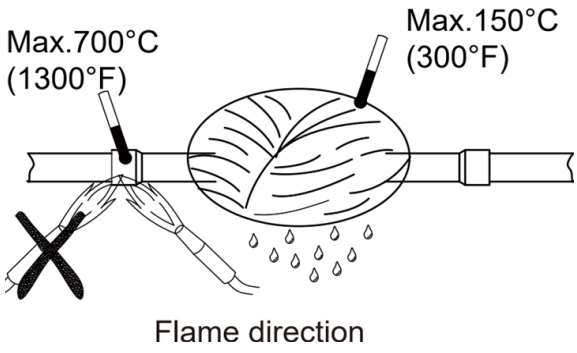
CO_2 Check Valve Installation Instructions

Scope of Application:

NDL CO_2 Check Valves are generally used in liquid, suction, and hot gas pipelines of commercial refrigeration systems, household, and industrial air-conditioning equipment. These valves are specifically designed to control the one-way flow of refrigerants, ensuring system reliability, protecting sensitive components, and preventing any reverse flow.

Technical Paramters:

- Applicable Medium: R744 (CO_2)
- Applicable Medium Temperature: -50°C to 150°C
- Maximum Working Temperature: 14MPa / 140 bar / 2030 PSI



Installation and Usage:

1. Install in a location with minimal vibration

2. Check valves are designed to operate in any position (horizontal or vertical), as long as the arrow matches the flow. For best performance we recommend it to be installed in horizontal lines or in vertical lines with upward flow.

3. Operating pressure must not exceed the maximum working pressure of the check valve.

4. Installation

- First, wrap the valve body with a wet cloth or wet cotton yarn to prevent high temperatures during welding from damaging internal sealing components.
- During welding, pay attention to the direction of the welding torch flame (should face the outer end).
- For valves with copper connections, it is recommended to use a low-temperature silver solder to reduce brazing temperature
- Maintenance of the check valve must be performed by designated professionals

**Brazing and installation diagram can be found above*