

Uniseal Pipe Coupling

1/2, 3/4, 1, 1-1/4, 1-1/2, 2 Inch Sizes

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INTRODUCTION

This Installation, Operation, and Maintenance Manual is intended to be as complete and up to date as possible. It covers installation, operation, and maintenance procedures for a CPC-Cryolab product. CPC-Cryolab reserves the right to update this manual and other product information concerning installation, operation, and/or maintenance, at any time and without obligation to notify product owners of such changes.

CPC-Cryolab is not responsible for injury to personnel or product damage due to improper installation, operation, and/or maintenance. All installation, operation, and maintenance procedures should only be performed by trained/certified personnel. All personnel performing these procedures should completely and carefully read and understand all supplied materials before proceeding. All personnel should pay strict attention to all Notes, Cautions, and Warnings that appear within procedures detailed in this manual.

CPC-Cryolab welcomes user input as to suggestions for product or manual improvement.

CONTACT INFORMATION

For information concerning warranties, or for questions pertaining to the installation, operation or maintenance of CPC-Cryolab products, contact:

CPC-CRYOLAB
C/O LESLIE CONTROLS INC.
12501 Telecom Drive
Tampa, FL 33637
USA Phone: (813) 978-1000

To order replacement parts, contact CPC-Cryolab at address listed above, or call toll free:

USA/Canada/Caribbean Phone: (800) 323-8366
Please include model and serial number of unit for which parts are being ordered. If ordering by phone, please have this information readily available.

GENERAL NOTES AND WARNINGS

Notes:

- If the manual fails to answer all questions, or if specific installation, operation, and/or - maintenance procedures are not clearly understood, contact CPC-Cryolab for clarification before proceeding.
- If the unit is damaged during installation, operation, or maintenance, complete following steps:
 1. Turn-off and lock-out all supply to the unit in an approved manner, including incoming valves.
 2. Contact in-house maintenance personnel or CPC-Cryolab for further instructions.

Throughout this manual, warnings will be denoted as shown in the example below:

CAUTION!

Piping system must be adequately designed and supported to prevent extraordinary loads to pressure equipment.

CAUTION!

Serious injury or death can occur if not handled by properly trained personnel. Please consult the manufacturer with any questions prior to conducting work.

INSTALLATION

GENERAL NOTES

The coupling and all associated parts should be unpacked and checked against the packing list and/or the approved customer drawing prior to installation. If parts are missing or there are more parts than necessary, contact CPC-Cryolab.

The coupling is not to be installed or used in a pipeline that exceeds the maximum allowable working pressure listed on the valve tag.

WELDING COUPLING IN PIPELINE

Prior to welding, ensure pipeline is clean and free from things such as dirt, weld slag, machining burrs, and pipe scale.

Remove the gasket from the Uniseal Pipe Coupling body. Wrench-tighten the coupling together after the gasket has been removed. Place the grounding clamp as near to the point of weld as possible. Weld coupling into the pipeline in accordance with any and all applicable local and national codes and standards. After welding, allow the coupling to cool before reassembling. Always use a new gasket when making up the union. Typical union assembly installation is shown in Figure 2.

MAINTENANCE

WARNING!

Injury or death can occur due to failure to completely isolate equipment from all sources of pressure before beginning disassembly. Do not proceed until coupling has been completely isolated from the process and vented to atmospheric pressure.

GENERAL NOTES

Standard maintenance kits for couplings include a gasket kit to replace the spiral-wound gasket with retainer.

Apply thread lubricant or an equivalent lubricant that is compatible with the process fluid to all threads prior to reassembly.

INSTRUCTIONS

Please refer to Figure 1 for a basic illustration of this type of coupling.

The Uniseal Pipe Coupling contains four major components including: an inlet housing, an outlet housing, a housing nut, and a spiral-wound gasket with retainer. The installation is similar to the installation for any standard pipe union with a few exceptions.

Dismantle the pipe union and remove the spiral-wound gasket with retainer. Discard the old gasket and replace it with a new one. Apply a thread lubricant to the external threads of the union to aid in obtaining proper sealing force. Tighten the coupling using the specified torque in Table 1. Re-tightening the union after it has reached full temperature is recommended.

Table 1: Recommended Torque for Installation of the Uniseal Pipe Coupling

Coupling Size [in.]	Torque [ft-lbs]
0.5	100
.75	120
1.0	150
1.25	215
1.5	277
2	421

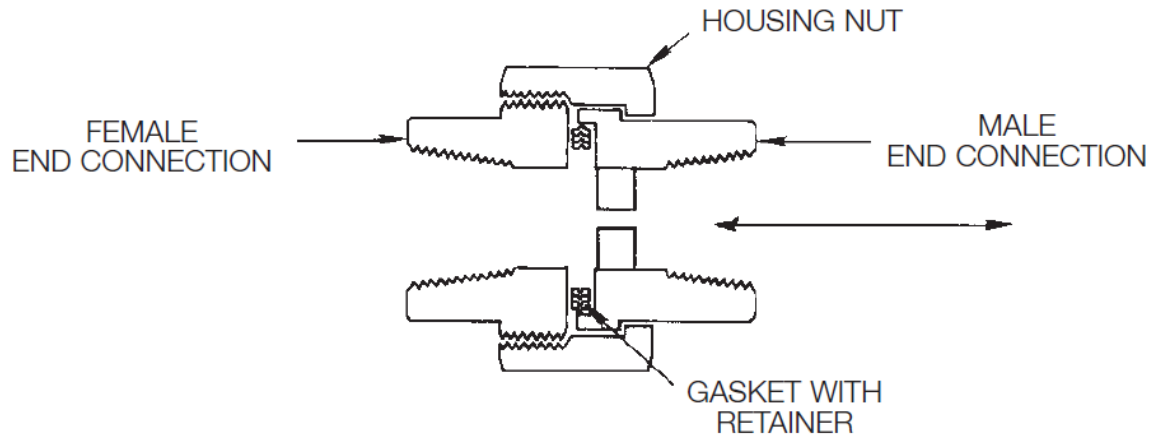


Figure 1: Uniseal Pipe Coupling

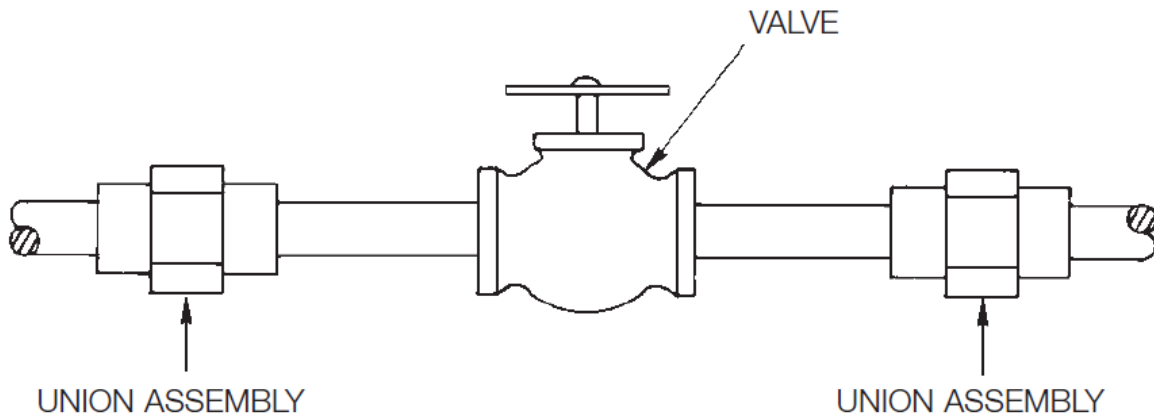


Figure 2: Typical Union Assembly Installation

It is solely the responsibility of the system designer and the user to select products and materials suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Assistance shall be afforded with the selection of the materials based on the technical information supplied to CPC-Cryolab™; however, the system designer and user retain final responsibility. The designer should consider applicable Codes, material compatibility, product ratings and application details in the selection and application. Improper selection, application or use of the products described herein can cause personal injury or property damage. If the designer or user intends to use the product for an application or use other than originally specified, he must reconfirm that the selection is suitable for the new operating conditions.

