



SKU#: cCS-V

INSTRUCTIONS

Crossover Valve Kit

Hot water recirculation valve

Installation and operating instructions



WATER QUALITY
VALVE
ANSI/NSF 61
ANSI/NSF 372
MR06450
Maximum Use Temperature 140°F
Listed by Grundfos Pumps



NORITZ

The Simple Comforts of Life



Installation and operating instructions

Original installation and operating instructions.

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Warning

Prior to installation, read these installation and operating instructions. Installation and operation must comply with national, state, and local regulations and accepted codes of good practice.

For programing, please refer to the water heater's installation manual for additional set-up information.



1. Limited warranty

The Noritz Crossover Valve Kit is warranted to the original user only to be free of defects in material and workmanship for a period of 24 months from date of installation, but not more than 30 months from date of manufacture. Noritz' liability under this warranty shall be limited to repairing or replacing at Noritz' option, without charge, FOB Noritz.

Noritz will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by Noritz are subject to the warranty provided by the manufacturer of said products and not by Noritz' warranty. Noritz will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with Noritz' printed installation and operating instructions.

To obtain service under this warranty, the defective product must be returned to the distributor or dealer of Noritz' products from which it was purchased together with proof of purchase and installation date, failure date, and supporting installation data. Unless otherwise provided, the distributor or dealer will contact Noritz for instructions.

Any defective product to be returned to Noritz must be sent freight prepaid; documentation supporting the warranty claim and/or a Return Material Authorization must be included if so instructed.

NORITZ WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES, OR EXPENSES ARISING FROM INSTALLATION, USE OR ANY OTHER CAUSES. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THOSE WARRANTIES DESCRIBED OR REFERRED TO ABOVE.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages and some jurisdictions do not allow limit actions on how long implied warranties may last. Therefore, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.



2. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in personal injury.

Caution

If these safety instructions are not observed, it may result in malfunction or damage to the equipment.

Note

Notes or instructions that make the job easier and ensure safe operation.

3. Product introduction

3.1 Introduction

All Noritz Crossover Valves are carefully inspected and tested before shipment in order to ensure long, efficient, trouble-free service. For maximum performance and reliability, please follow the instructions in this manual.



Warning

This is not an anti-scald device. After installation, you may find some warm water in the cold water line at the sink where the valve is installed. Once the cold water line is opened, the warm water will dissipate in a very short time.



Warning

For indoor potable water use only.

A Noritz Crossover Valve is designed to bring hot water in an instant to the hot water faucets in your home.

Since the system utilizes the existing cold water return line in the home, no separate new return line is required. No electricity is required under the sink.

The Noritz Crossover Valve installs at the furthest faucet.

The direction of flow moves from the water heater through the recirculation pump, through the hot water supply line, and then back to the water heater through the existing cold water return line.



3.2 Delivery and handling

Examine the components carefully to make sure no damage has occurred to the valve during shipment.

Noritz Crossover Valve Kit includes includes:

- One undersink, crossover valve
- Two 12 in. Length, 1/2 in. FIP x 3/8 in. comp flex hoses with two 1/2 x 3/8 in. fittings
- Installation and Operating Instructions

3.3 Applications.



Warning

For indoor potable water use only.

Noritz Crossover Valve is intended for indoor residential potable drinking water use only; to be considered where there is no hot water return line available.

4. Installation

Warning

Caution

Do not use Teflon® tape or pipe joint compound/pipe dope on the valve threads.

Warning

Caution

Hand tighten flex hose connections (not included), plus 1/4 turn with wrench. Overtightening of flex hose connections can result in valve damage, causing valve to leak and/or localized water damage.

Warning

Note

When making piping connections, be sure to follow piping manufacturer's recommendations and all code requirements for piping material.

Warning

Note

By plumbing convention, the hot water is on the left side and the cold water on the right side, when looking at the sink. Your piping may be different.



4.1 Valve location

For the greatest effect, the valve should be located at a faucet with the greatest piping distance from the hot water heater.

4.2 Disconnecting the risers

1. Close both the hot and cold water angle stop valves below the sink; see fig. 1.
2. Disconnect the risers; see fig. 2.

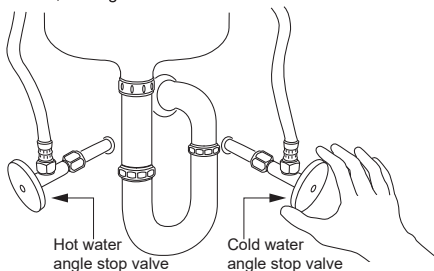


Fig. 1 Close hot and cold water angle stop valves under the sink before installing the thermal bypass valve

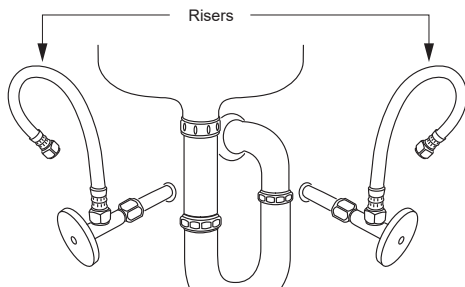


Fig. 2 Disconnect the risers before installing the thermal bypass valve



4.3 Installing the crossover valve

1. Connect the 1/2" X 1/2" flex hoses to the ports on the crossover valve marked "HOT OUT" and "COLD OUT". See fig. 3.
2. Connect the 1/2" x 3/8" flex hoses to the ports on the crossover valve marked "HOT IN" and "COLD IN". See fig. 3.
3. Connect the 1/2" hose fitting from the "HOT OUT" port on the crossover valve to the left side of the faucet. See fig. 3.
4. Connect the 1/2" hose fitting from the "COLD OUT" port on the crossover valve to the right side of the faucet. See fig. 3.
5. Connect the 3/8" hose fitting from the "HOT IN" port on the crossover valve to the left angle stop valve. See fig. 3.
6. Connect the 3/8" hose fitting from the "COLD IN" port on the crossover valve to the right angle stop valve. See fig. 3.
7. Open both hot and cold water angle stop valves. Check for leaks.
8. Crossover valve may be mounted to the wall with screws* if desired; two-hole mounting bracket flush with wall. See fig. 4.
9. For troubleshooting, see section 6. *Fault finding*.

* Mounting hardware not included.

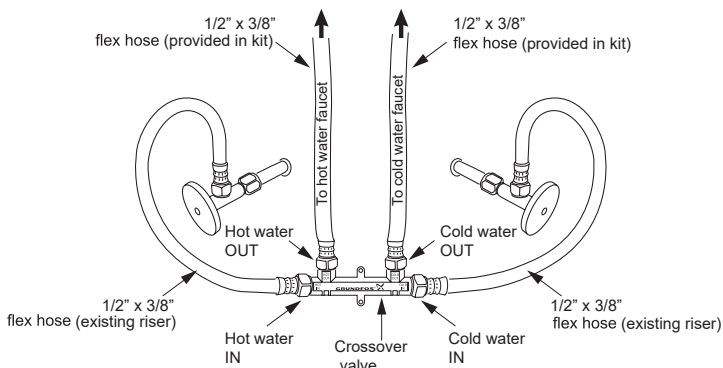


Fig. 3 Connect crossover valve, flex hoses, and fittings as shown

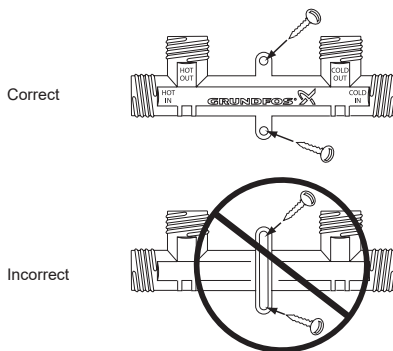


Fig. 4 Correct installation of crossover valve (mounting hardware not included)





5. Technical data



Warning
For indoor potable water use only

Crossover valve	Max. ambient storage temp.	170 °F (76 °C)
	System installation type	Open — residential potable
	Max. working pressure	145 psi (10 bar)
	Max. liquid temperature	140 °F (60 °C)
	Min. liquid temperature	36 °F (2 °C)
	Connections	1/2" NPSM

5.1 Approvals

ANSI/NSF61 ANSI/NSF 372 Comfort Valve	
IAPMO (UPC/cUPC) Comfort Valve	

Manufactured by Grundfos



6. Fault finding

Fault	Remedy
1. No hot water at faucet or too much hot water on cold water side	a) To check for proper installation, close cold water angle stop valve below the sink.
	b) Open the cold water faucet.
	c) Water should slowly flow from the cold water faucet until hot water reaches crossover valve.
	d) As the crossover valve closes, the flow from the cold water faucet should gradually decrease to a trickle of water until no water is coming from valve. If not, review crossover valve installation instructions. If necessary, reinstall crossover valve. For installation procedure, see section 4. <i>Installation</i> .

7. Disposal

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.



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