

Check-Trol™ Flange

<https://qr.xylemsales.com/l7wiqh>



Installer

NOTICE:

PLEASE LEAVE THIS MANUAL FOR OWNER'S USE



SAFETY INSTRUCTIONS

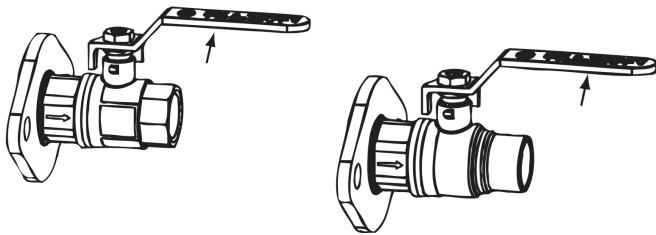
This safety alert symbol will be used in this manual and on the unit safety instruction decals to draw attention to safety related instructions. When used, the safety alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN A SAFETY HAZARD.

1 Description

The Check-Trol™ Flange is a combination of an isolation valve, a spring check valve and a companion flange for circulators. The Check-Trol™ flange allows easy service or replacement of the circulator without the need to drain the system. The spring check valve prevents system fluid from flowing in the wrong direction or unwanted direction. The spring check valve also prevents gravity flow.

NPT connection

Sweat connection



Warning label part number V56873 installed in this location. If missing, it must be replaced.

Figure 1: Warning label



WARNING:

Wetted surface contains not more than 0.25% of lead by weight.



WARNING:

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Operational limits

Max Temperature	240°F (116°C)
Max Pressure	150 psig (10 Bar)

2 Installation instructions

1. Install the Check-Trol™ Flange on the discharge side of the pump with arrow pointing in the direction of flow (the Check-Trol™ Flange has "Check-Trol™" written on handle). Install the Isolation Flange (without Check Valve) on the suction side of the pump.
2. See the following installation instructions and drawings for additional information.



WARNING:

System fluids under temperature or pressure can be hazardous. Be sure the pressure is relieved and system temperature is below 100°F (38°C). Failure to follow these instructions could result in property damage and/or personal injury.

3. Apply torque in even increments to both flange bolts. Refer to the pump manufacturers instruction manual for torque value. Both the suction and discharge flanges must be torqued in this manner.



WARNING:

To prevent leakage, make certain that the flange bolts have been adequately torqued. Failure to follow these instructions could result in personal injury and/or property damage.

For Check-Trol™ & Isolation Flange NPT Connections:

1. Apply pipe compound conservatively to the male connecting fittings only.
2. Upon completion of IF installation to piping, check connections for leaks.



CAUTION:

Overtightening and breakage can occur with the use of Teflon® pipe joint compounds. Teflon provides lubricity so that care must be exercised not to over tighten joints. Failure to follow these instructions could result in property damage and/or moderate personal injury.

For Check-Trol™ & Isolation Flange Sweat Connections:

1. For soldering, use 95-5 (Tin-Antimony) solder and a good grade of flux. Solder end valves are suitable for soldering without disassembly. Refer to [Table 7](#) on page 2 for solder types and temperatures. Solder joint strength and working pressure varies with tube size, solder grade and temperature as defined in ASME B16.18 and B16.22. Do not exceed the limits stated in [Table 1](#) on page 2.
2. Cut the tube square and deburr both ID and OD. Do not deform the tube, otherwise it must be re-sized. Clean tube end and valve solder cup with abrasive cloth or wire brush until the surfaces are bright metal. Alternatively use an approved cleaning paste: in this case spread the paste evenly on the tube; insert the tube into the cup and turn to distribute the paste; finally remove the excess paste.
3. When sweating joints, first wrap the valve body with a cool wet rag, then direct the flame with care to avoid subjecting the valve to excessive heat. Allow the valve to cool before touching or operating. The valve must be in the fully closed position during soldering. Valve seats may be damaged if soldering is done in the open or partly open position.

- While soldering, it is important to use a properly sized torch with a sharp pointed flame so that the solder end is heated fully and quickly. Apply heat so that the flame is directed on the cup area but away from the valve body. Although soft 50/50 solder is easier to use, these valves can also be successfully soldered with 95-5, however caution must be used to prevent damage (see Table 1 on page 2). Cool the valve body before soldering the second end.
- Check the soldered connections for leaks.



CAUTION:

Heat associated with the use of silver solder may damage valve and void the warranty. Do not use silver solder. Failure to follow these instructions could result in property damage and/or moderate personal injury.

4 Service instructions

There is no service required for the Isolation or Check-Trol™ flanges.



CAUTION:

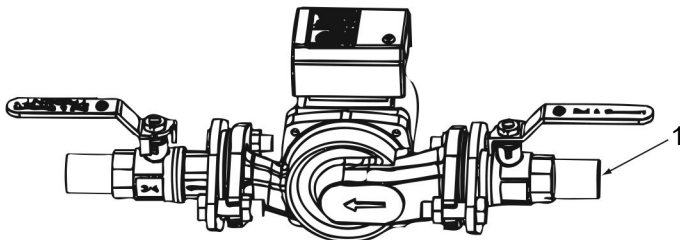
Corrosion or leakage of vents can cause damage or injury. Periodically inspect the air vents for signs of leakage or corrosion. If noted, the vent must be replaced. Failure to follow these instructions could result in property damage and/or moderate personal injury.

Table 1: Pressure — Temperature Ratings

Joining Material	Melting Range Degrees		Working Temperature Degrees		Maximum Working Gauge Pressure					
					Size 1/8" – 1"		Size 1 1/4" – 2"		Size 2 1/2" – 2"	
	°F	°C	°F	°C	psi	kPa	psi	kPa	psi	kPa
95-tin-antimony solder ASTM B32 alloy grade 95TA	450/464	230/240	0/+100	-18/+38	500*	3500*	400*	2800*	300*	2100*
			0/+150	-18/+66	400*	2800*	350*	2400*	275*	2000*
			0/+200	-18/+93	300*	2100*	250*	1700*	200	1400
			0/+250	-18/+121	200	1400	175	1200	150	1050

Note: Above stated limits are not imposed by the valve, but by the strength of the soldering joint according to ASME B16.22.

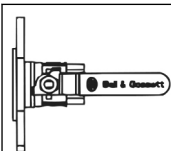
*Soldered copper tube joints have been tested at 230 psi (1600 kPa) in accordance with ISO 2016.



1. Standard piping

DISCHARGE SIDE
USE CHECK-TROL™ FLANGE

SUCTION SIDE
USE ISOLATION FLANGE



Valve open normal operation



Valve closed for servicing

1 Warranty

1.1 Commercial warranty

Warranty. For goods sold to commercial buyers, Seller warrants the goods sold to Buyer hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other "wear parts" or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be (i) be built in accordance with the specifications referred to in the quotation or sales form, if such specifications are expressly made a part of this Agreement, and (ii) free from defects in material and workmanship for a period of one (1) year from the date of installation or two (2) years from the date of manufacture, whichever shall occur first, unless a longer period is specified in the product documentation (the "Warranty").

Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer's failure to comply with Seller's repair or replacement directions shall terminate Seller's obligations under this Warranty and render the Warranty void. Any parts repaired or replaced under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced. Seller shall have no warranty obligations to Buyer with respect to any product or parts of a product that have been: (a) repaired by third parties other than Seller or without Seller's written approval; (b) subject to misuse, misapplication, neglect, alteration, accident, or physical damage; (c) used in a manner contrary to Seller's instructions for installation, operation and maintenance; (d) damaged from ordinary wear and tear, corrosion, or chemical attack; (e) damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow; (f) damaged due to a defective power supply or improper electrical protection; or (g) damaged resulting from the use of accessory equipment not sold or approved by Seller. In any case of products not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller's supplier of such products.

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1.2 Limited consumer warranty

Warranty. For goods sold for personal, family or household purposes, Seller warrants the goods purchased hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other "wear parts" or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be free from defects in material and workmanship for a period of one (1) year from the date of installation or two (2) years from the product date code, whichever shall occur first, unless a longer period is provided by law or is specified in the product documentation (the "Warranty").

Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer's failure to comply with Seller's repair or replacement directions shall terminate Seller's obligations under this Warranty and render this Warranty void. Any parts repaired or replaced under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced.

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THE FOREGOING WARRANTY IS PROVIDED IN PLACE OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE(1) YEAR FROM THE DATE OF INSTALLATION OR TWO (2) YEARS FROM THE PRODUCT DATE CODE, WHICHEVER SHALL OCCUR FIRST. EXCEPT AS OTHERWISE REQUIRED BY LAW, BUYER'S EXCLUSIVE REMEDY AND SELLER'S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE PRODUCT AND SHALL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER FOR THE DEFECTIVE PRODUCT. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY OTHER FORM OF DAMAGES, WHETHER DIRECT, INDIRECT, LIQUIDATED, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY OR LOSS OF REPUTATION.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

To make a warranty claim, check first with the dealer from whom you purchased the product or call +1-847-966-3700 for the name and location of the nearest dealer providing warranty service.

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Let's Solve Water