

XD™ INTAKE 1902 INTAKE VALVE

Installation, Operating, & Maintenance Instructions



98660000 Rev REL

+1 574-295-8330
www.elkhartbrass.com



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A Safe Fleet Brand

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Product Safety Information

- All personnel who may be expected to use this equipment must be thoroughly trained in its safe and proper use.
- Before flowing water through this device, check that all personnel (fire service and civilian) are out of the stream path. Also, check to make sure stream direction will not cause avoidable property damage.
- Become thoroughly familiar with the hydraulic characteristics of this equipment, and the pumping system used to supply it. To produce effective fire streams, operating personnel must be properly trained.
- Open water valves supplying this equipment slowly so that piping fills slowly, thus preventing possible water hammer occurrence.
- After each use, and on a scheduled basis, inspect equipment per instructions in the Maintenance section.



Caution: : Before installing and operating provided equipment, read this manual thoroughly. Proper installation is essential to safe operation.

System Information:
Valve Serial Number

Valve Accessories:

1902L Intake Valve Callout



1902S Intake Valve Callout



1902S Intake Valve Callout



Mounting & Operation

The outlet of the 1902 intake valve shall be secured to the pump manifold of the apparatus. Position the valve so that the operator has visibility of the position indicator located on top of the handwheel.

Ensure that the valve is closed while establishing a water supply from a hydrant or alternative water source. Open the bleeder valve until all the air has been bled from the supply line and adequate pressure has been established. This will prevent entrance of air in the apparatus pump and minimize the chance of the pump losing prime. Close the bleeder valve and open the intake valve. The intake valve includes a valve position indicator located on the crank handle. To open the valve, crank the handle until the indicator shows OPEN. To close the valve, crank the handle until the indicator shows CLOSED.

The valve shall operate, open and close, without excessive torque or handwheel force. Should this occur, the interior of the valve shall be checked for debris and foreign objects. Additionally, the operator must perform daily checks of the valve for damage to couplings/ locks and that the pressure relief valve is functioning properly.



Warning: Open water valves supplying this equipment slowly so that piping fills gradually, thus preventing a possible water hammer occurrence.

Components

Bleeder Valve

The bleeder valve is used to remove air from an attached supply line or release vacuum when draining. The bleeder discharges through two 1/8 NPT threaded connection. The valve actuates by pulling the knob open, pushing closed.

Each valve is supplied with one 1/8 NPT plug and one barbed fitting. The 1/8 NPT plug may be installed in one of the bleeder valve discharge connections to direct the water flow away from the operator. The barbed fitting may be installed in one of the bleeder valve discharge connections. A rubber hose (not supplied) may be attached to the barbed connection to direct the flow of water to a desired location. The 1/8 NPT plug and barbed fitting shall be installed by utilizing suitable Teflon tape or Loctite 592 (or equivalent) thread sealant. Alternatively, the 1/8 NPT bleeder valve discharge ports may be left open for maximum flow rate during air bleeding operation.



Pressure Relief Valve

The relief valve has been factory set at 125-psi and can be adjusted using a 5/8" socket or wrench. Rotating the adjustment nut clockwise will increase the pressure at which the valve will open and rotating counterclockwise will decrease the pressure. The relief valve is set by aligning the adjustment nut surface with the appropriate surface of the pressure setting. The relief valve should not be adjusted past the 250-psi surface, damage may occur.



Warning: The pressure relief valve must be properly set prior to operation.

Inlet

The inlet elbow can be rotated a full 360 degrees and can be locked at 45° and 90° increments. A locking mechanism stops the rotation once the desired position is achieved. To rotate the elbow, pull and rotate the locking mechanism to the open position. The elbow is then rotated to the chosen position, the lock can then be rotated and returned to the locking position. Ensure that the shaft of the locking mechanism is in one of the 8 provided locations.



Warning: All personnel who may be expected to use this equipment must be thoroughly trained in its safe and proper use.



Caution: Keep hands, fingers, and objects away from the moving parts of the valve.

SPECIFICATIONS

Intake Valve

Maximum Pressure	250 psi (17 BAR)
Maximum Flow Rate	3000 gpm (11400 LPM)
Weight	27.4 lbs (12.4 kg)
Temperature	Operating: 32°F-125°F (0°C -52°C) Storage: -25°F-135°F (-32°C-57°C) (Drained)



Warning: Do not exceed the maximum pressure or flow ratings of the intake valve. Exceeding ratings can lead to a personal injury or cause damage to the valve.

MAINTENANCE

Intake Valve

The valve has been constructed of MIL-A-8625, type III, class II, anodized aluminum, stainless steel, and a forged electroless nickel plated aluminum ball. Additionally, the aluminum castings have been primed and powdered coated on both the exterior surfaces and the interior waterway. The outlet swivel uses Torlon 4203 ball bearings in an effort to insulate the valve from the effects of corrosion.

After each use, flush the valve with clean water. Remove any debris from the inner and outer valve surface. The valve seat is considered a wear item, the seat will need to be replaced based upon wear and customer usage. This can be accomplished by returning the valve to Elkhart Brass for service or by purchasing intake valve repair kit (part number 81984000).



Caution: During periods of below freezing temperatures, the valve must be drained or damage may occur.



Caution: The valve is intended to be used with a fresh water supply, should salt water be used, thoroughly flush valve or corrosion may occur.

WARRANTY

Elkhart Brass Manufacturing Company, Inc., 1302 West Beardsley Avenue, Elkhart, Indiana 46514 ("Warrantor"), warrants to the original purchaser of any XD Series 1902 Intake Valve manufactured by Warrantor and to any person to whom such equipment is transferred, that such equipment shall be free from defects in materials and workmanship during ten (10) year period commencing upon receipt of such equipment by the original purchaser thereof ("warranty period"). This Limited Warranty does not cover wear items (such as): Ball, Ball Seat, Pressure Relief Seat, or O-rings.

Warrantor's obligation under this warranty is specifically limited to replacing or repairing its equipment or parts thereof which are shown by Warrantor's examination to be in a defective condition attributable hereunder to Warrantor. To qualify for this warranty, alleged defective equipment MUST be returned to Warrantor at its above address, transportation charges prepaid, within a reasonable time after discovery of alleged defect, and in no event later than thirty days beyond the expiration of the warranty period. In no case will labor associated with removal and replacement/repair of defective components be reimbursed without prior written approval, from a Director or Officer level representative, of Elkhart Brass. If, as a result of Warrantor's examination of the returned equipment, Warrantor concludes that a product defect attributable hereunder to Warrantor exists, Warrantor shall cure such defect within a reasonable time, not to exceed forty-five (45) days after such examination. Workmanship related to non-warranty repairs shall be warranted for a ninety-day period.

In the event that a defect in such equipment is found to be attributable hereunder to Warrantor and Warrantor is unable to provide replacement and repair is not commercially practicable or cannot be timely made, Warrantor may elect to refund to claimant the purchase price of such equipment actually received by warrantor, less reasonable depreciation, in complete discharge of its obligations hereunder. If Warrantor elects to comply with this warranty by means of such refund, as a condition precedent to such compliance, the claimant shall return such equipment to Warrantor free and clear of liens and other encumbrances.

THE ORIGINAL PURCHASER OF SUCH EQUIPMENT, ANY PERSON TO WHOM SUCH EQUIPMENT IS TRANSFERRED, AND ANY PERSON WHO IS AN INTENDED OR UNINTENDED BENEFICIARY OF SUCH EQUIPMENT, SHALL NOT BE ENTITLED TO RECOVER FROM WARRANTOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR INJURY TO PERSON AND/OR PROPERTY RESULTING FROM ANY DEFECTIVE EQUIPMENT MANUFACTURED BY WARRANTOR.

Misuse or neglect (including failure to provide reasonable maintenance) of, or accident or unauthorized repairs or alterations to, such equipment, shall release and discharge Warrantor from any obligation under this warranty or otherwise.

WARRANTOR EXPRESSLY LIMITS WITH RESPECT TO SUCH EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE TO THE WARRANTY PERIOD. AFTER EXPIRATION OF THE WARRANTY PERIOD, WARRANTOR EXPRESSLY DISCLAIMS WITH RESPECT TO SUCH EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY WARRANTOR BEYOND THAT WHICH IS CONTAINED HEREIN.

Should warrantor fail to meet its obligation under this warranty, a claimant may sue Warrantor to secure its compliance with this warranty. No action to enforce this warranty or to otherwise secure recovery from Warrantor for any damages arising out of the equipment manufactured by Warrantor shall be commenced later than six (6) years from and after the date of the receipt of such equipment by the original purchaser thereof.

NO PERSON HAS AUTHORITY TO ENLARGE, AMEND, OR MODIFY THIS WARRANTY.

Warrantor reserves the right to change the parts or design of its products from time to time without notice, and with no obligation to maintain spare parts or to make corresponding changes in the products previously manufactured.



Elkhart Brass Manufacturing Co., Inc.

1302 W. Beardsley Avenue Elkhart, IN 46514

Tel. +1 574-295-8330

Fax +1 574-293-9914

www.elkhartbrass.com

Email: eb.info@safefleet.net

