



**Installation and Maintenance Instructions
for IFC Wafer Check Valves**

CHECK VALVES

I. Installation

Remove all shipping and crating materials carefully. Be sure to remove the inlet/outlet covers from the inlet and outlet openings. Dispose of all crating materials safely.

Ensure that all machined surfaces are free of defects and that the inside of the valve is free of foreign objects.

The check valve shall be of the silent operating type that begins to close as the forward flow velocity diminishes and is fully closed at zero velocity, preventing flow reversal and resultant water hammer or shock.

Valves can be installed in any position, i.e. horizontal or vertical with a flow up or down. The flow arrow must point in the direction of flow when the system is in operation. When lifting, the valve should be lifted by the body and never lifted by the bronze or stainless steel internal trim.

Once installed increase line pressure gradually and check for leakage around joints.

After completing installation be sure to double check connections for integrity. Your silent check valve unit has been factory hydrotested to be leak free, therefore, any seepage problems usually occur from improper installation.

Your IFC Inc. check valve is now ready for operation.

II. Operation

The valves are designed to prevent reverse flow automatically. On pump start-up, the flow of water forces the disc open, allowing the passage of fluid through an area equal to the pipe size.

On pump shut down, the special conical spring closes the disc before a flow reversal takes place. This type of closure, which prevents flow reversal, is the factor that allows silent operation and prevents water hammer normally associated with valve shut-off.

III. Maintenance

No regular maintenance of our valves is required.

Removal from line: Close the discharge gate valve and bleed pressure by loosening the discharge side flange. Do not loosen the inlet side of the flange until line pressure has been relieved. This procedure will prevent damage to the internal trim.

Once the valve is removed from the line, all parts can be checked for wear and damage from foreign matter. Replacement parts can be ordered.

NOTE: Never attempt to inspect the seating of the valve by removing the piping from the valve inlet. This will result in damage to the valve's internal seating mechanism. The valve disc and seat shall be field replaceable and have a seating surface finish of 32 micro-inch or better to insure positive seating at all pressures. The leakage rate shall not exceed one-half the allowable rate permitted by the American Water Works Association specification #C508-76 or 5oz. (15 millimeters) per hour per inch (millimeter) of valve size.

When specified, a Buna-N seal shall be furnished to provide zero leakage. The seal design shall provide for both a metal to metal to Buna-N seal to achieve resilient sealing at both low and high pressures without overloading or damaging the Buna-N seal.

I. Warranty Information

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below: If the purchaser believes a product to be defective, the purchaser shall: (a) Notify the manufacturer, state the alleged defect and request permission to return the product (b) If the permission is granted, return the product with transportation prepaid. If the product is accepted for return and found to be defective, the manufacturer will, at its discretion, either repair or replace the product, f.o.b. factory within 60 days of receipt or refund the purchase price. Other than to repair, replace or refund described above, the purchaser agrees that the manufacturer shall not be liable for any losses, costs, expenses or damages of any kind arising out of the product its use installation or replacement, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of foregoing. No warranties, written or oral, expressed or implied, including the warranties of fitness for a particular purpose and merchantability, are made or authorized. No affirmation of fact, promise, description of product use or sample or model shall create any warranty from the manufacturer, unless signed by the president or vice-president. These products are not manufactured, sold or intended for personal, family or household purposes.

IV. Manufacturer Information

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