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## **SAFETY WARNINGS**

**ADJACENT PIPING MUST BE ALIGNED AND INSTALLED SUCH THAT NO UNDUE STRESS IS IMPOSED ON THE VALVE BODY.**

**PROPERLY BLOCK AND VENT THE PIPELINE BEFORE REMOVING THE VALVE.**

**BEFORE INSPECTING AND CLEANING THE VALVE, THE CONNECTING PIPELINE MUST BE FREE OF ALL HAZARDOUS OR FLAMMABLE VAPORS. BEFORE DISASSEMBLING THE VALVE CONSULT MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL PRODUCTS THAT THE VALVE WAS EXPOSED TO IN SERVICE. THE COMPONENTS SHOULD BE CLEANED ACCORDING TO MSDS PROCEDURE. TAKE APPROPRIATE SAFETY PRECAUTIONS REGARDING EYE PROTECTION, SKIN CONTACT & RESPIRATION.**

## **INTRODUCTION**

The Groth Model 8110 Back Pressure Check Valve is a swing check valve utilizing a single disk which allows flow in one direction only. In the event that the downstream pressure is higher than the inlet pressure, the higher back pressure will hold the disk in the closed position.

This manual is intended to provide recommended procedures and practices for installation, operation and maintenance of the check valve. Any standard procedures and practices developed for a specific plant or process should supersede this manual. Although this manual cannot cover all possible contingencies, following these guidelines will provide safe, reliable service.

The check valve must be maintained by a knowledgeable repair technician. Carefully read and understand this manual before installing or servicing this product.

For information not contained in this manual, please contact:

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## **CERTIFICATION**

Groth Model 8110 Back Pressure Check Valves are manufactured in compliance with the ATEX Directive 94/9/EC.

## **INSTALLATION**

The Model 8110 Check Valve should be installed upright with its axis in a horizontal position for best performance and ease of maintenance. During installation, note the flow arrow on the valve body. Due to its compact design, some of the mounting flange bolts or studs may not be insertable from the body side. Therefore, sufficient clearance must be provided in adjacent piping to allow for the insertion of mounting bolts or studs.

## **DESIGN AND FUNCTION**

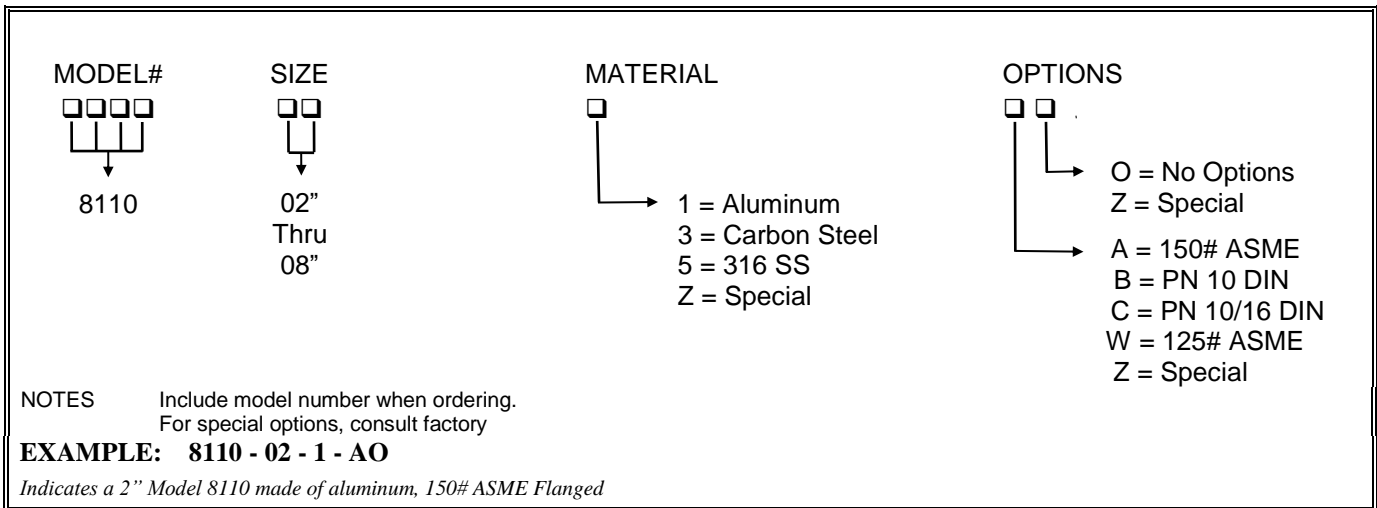
The Model 8110 Check Valve is designed to be fully automatic. There are no adjustments to be made.

## **MAINTENANCE**

The Model 8110 Check Valve does not require routine lubrication. If servicing or disassembly is required, make certain all pressure to the valve is either blocked or safely vented.

The disk may be removed and the seating surface re-lapped if required. The seat in the body may be renewed by lapping. Clean the check valve and replace all worn or damaged components before re-assembly. Re-assemble in the reverse order of disassembly. Check the disk and the link to be sure they are free to swing, and that seating is unobstructed.

## MODEL NUMBER IDENTIFICATION



### PRODUCT LIMITED WARRANTY

- A. Seller warrants that products which are manufactured by Seller, are manufactured in accordance with published specifications and free from defects in materials and/or workmanship for a period of (12) twelve months. Seller, at its option, will repair or replace any products returned intact to the factory, transportation charges prepaid, which Seller, upon inspection, shall determine to be defective in material and/or workmanship. The foregoing shall constitute the sole remedy for any breach of Seller's warranty.
- B. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, REPRESENTATIONS, OR WARRANTIES, EXPRESS OR IMPLIED, (INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING PRODUCTS) UNLESS SPECIFIED IN THE SALES CONTRACT. THIS CONTRACT STATES THE ENTIRE OBLIGATION OF SELLER.
- Seller makes no warranties, either express or implied, except as provided herein, including without limitation thereof, warranties as to marketability, merchantability, for a particular purpose or use, or against infringement of any patent of products. In no event shall Seller be liable for any direct, incidental or consequential damages of any nature, or losses or expenses resulting from any defective new product or the use of any such product, including any damages for loss of time, inconvenience, or loss of use of any such product.
- C. The original Manufacturer shall be solely responsible for the design, development, supply, production, and performance of its products hereunder, and the protection of its trade name or names, if any. It assumes no responsibility, for products modified or changed in any way by its agent or customer. Any such modifications or changes to products sold by Seller hereunder shall make the product limited warranty null and void.
- D. The Manufacturer shall be under no obligation to manufacture, sell, or supply, or to continue to manufacture, sell or supply any of the Products.

Groth Corporation has representatives throughout the world.  
Contact Groth Corporation or visit us on the web for the authorized representative in your area.



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