

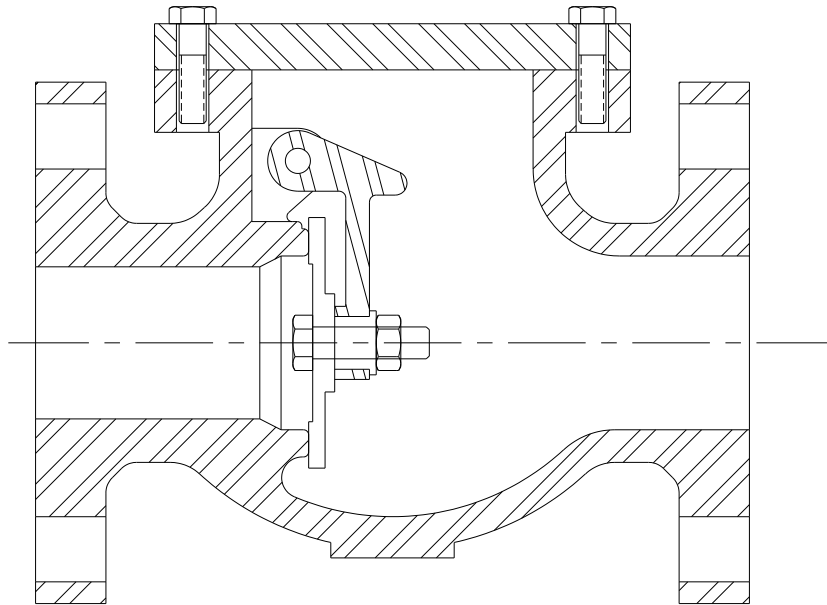


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SAFETY WARNINGS

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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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

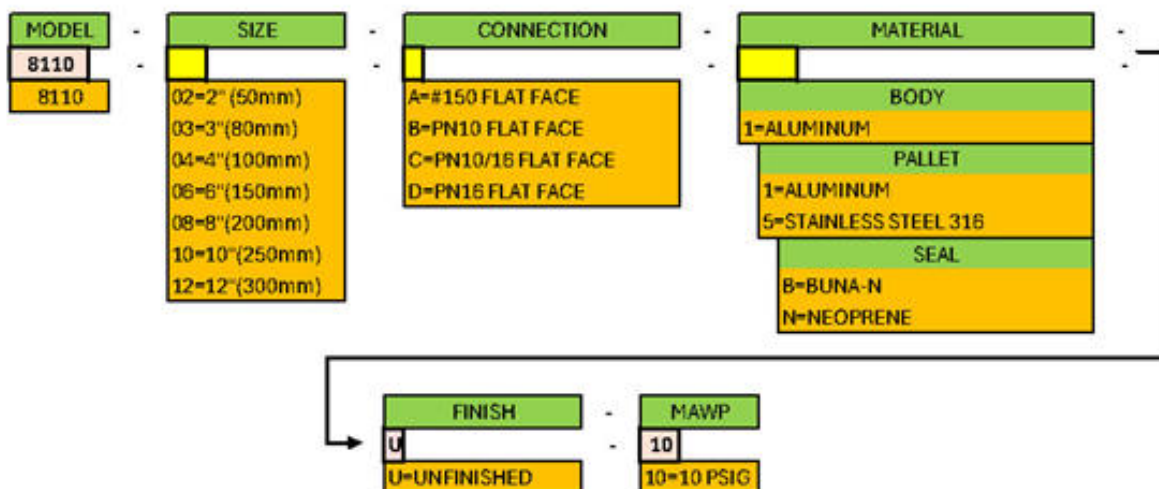
The Model 8110 Check Valve is designed to be fully automatic. There are no adjustments to be made.

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 or 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. LIMITED WARRANTY AND WARRANTY PERIOD-THE COMPANY WARRANTS THAT THE PRODUCTS WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE COMPANY'S INVOICE. A WARRANTY CLAIM MUST BE ASSERTED DURING THE WARRANTY PERIOD.
- B. NO OTHER WARRANTIES-THE LIMITED WARRANTY SET FORTH ABOVE IS EXCLUSIVE. THE COMPANY PROVIDES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE. NO MODIFICATION OR WAIVER OF THESE WARRANTIES IS BINDING ON THE COMPANY UNLESS CONTAINED IN A WRITING SIGNED BY AN OFFICER OF THE COMPANY. THE WARRANTY AND WARRANTY PERIOD SET FORTH ABOVE ARE NOT, IN ANY WAY, ENLARGED, DIMINISHED OR AFFECTED BY, AND NO OBLIGATION OR LIABILITY RESULTS FROM THE COMPANY RENDERING TECHNICAL ADVICE OR SERVICE TO PURCHASER IN CONNECTION WITH PURCHASER'S ORDER OF PRODUCTS.
- C. LIMITED WARRANTY EXCLUSIONS
Specifically excluded from the Limited Warranty set forth in LIMITED WARRANTY AND WARRANTY PERIOD above are: (a) shipping, accident, neglect, or improper installation, setup or use; (b) failure to follow operating instructions and/or scheduled maintenance procedures; (c) modification of Products in any manner from original model, substitution of parts other than factory authorized parts, or unauthorized removal or unauthorized addition of any parts; or (d) normal wear and tear.