

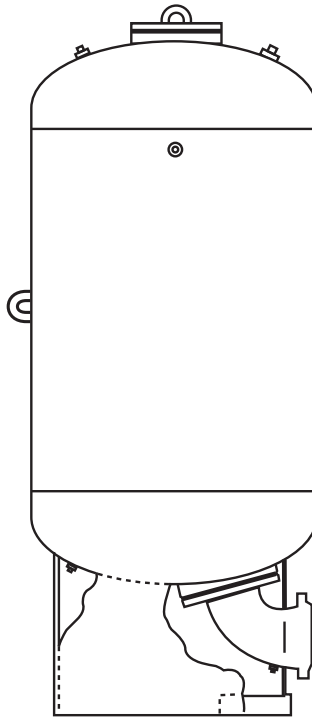


# DIATROL<sup>®</sup>

## SHOCK SUPPRESSOR

### INSTALLATION & OPERATION INSTRUCTIONS

Models D-7 through D-70



**NOTE:** Inspect for shipping damage and notify freight carrier or store where purchased immediately if damage is present. To avoid risk of personal injury and property damage, if the product appears to be malfunctioning or shows signs of corrosion, call a licensed professional immediately. Current copies of the Product manual can be viewed at [www.amtrol.com](http://www.amtrol.com). Use proper safety equipment when installing.



**THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL PERSONAL INJURY AND OTHER HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO REDUCE THE RISK OF PERSONAL INJURY AS WELL AS PROPERTY DAMAGE.**

**WARNING** READ CAREFULLY THE PRODUCT INSTALLATION & OPERATION INSTRUCTIONS. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS IN THE MANUAL MAY RESULT IN SERIOUS OR FATAL INJURY AND/OR PROPERTY DAMAGE, AND WILL VOID THE PRODUCT WARRANTY. THIS PRODUCT MUST BE INSTALLED BY A LICENSED PROFESSIONAL. FOLLOW ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS, IN THE ABSENCE OF SUCH CODES, FOLLOW THE CURRENT EDITIONS OF THE NATIONAL PLUMBING CODE AND NATIONAL ELECTRIC CODE, AS APPLICABLE.

**WARNING** This Product, like most Products under pressure, may over time corrode, weaken and burst or explode, causing serious or fatal injury, leaking or flooding and/or property damage. To minimize risk, a licensed professional must install and periodically inspect and service the Product. A drip pan connected to an adequate drain must be installed if leaking or flooding could cause property damage. Do not locate in an area where leaking could cause property damage to the area adjacent to the appliance or to lower floors of the structure.

**Chlorine & Aggressive Water.** The water quality can significantly influence the life of this product. You should test for corrosive elements,

acidity, total solids and other relevant contaminants, including chlorine and treat your water appropriately to insure satisfactory performance and prevent premature failure.

**WARNING** EXPLOSION OR RUPTURE HAZARD. A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. Do not expose product to freezing temperatures or temperatures in excess of 240°F. Do not adjust the pre-charge or re-charge this Product except during installation or regular inspection. Replace the Product and do not adjust the pre-charge if corroded, damaged or with diminished integrity. Adjustments to pre-charge must be done at ambient temperature only. Failure to properly size the product or follow these instructions may result in excessive strain on the system and may lead to product failure, serious or fatal personal injury, leakage, and/or property damage.

**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](http://www.P65Warnings.ca.gov).

**PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY**  
**IMPORTANT GENERAL SAFETY INFORMATION -**  
**ADDITIONAL SPECIFIC SAFETY ALERTS APPEAR IN THE FOLLOWING INSTRUCTIONS.**

### Pre-Installation

1. Visually inspect the Diatrol® for any damage. If damage exists return product for replacement.
2. Adjust pre-charge to equal 10% below system pressure.
3. Replace and tighten plastic cap on air fitting.

### Installation

1. The Diatrol should be installed as close to the offending fixture or source of water hammer as possible.
2. Once the Diatrol is installed, check the CWS line for leaks. Make repairs if necessary.

### Maintenance

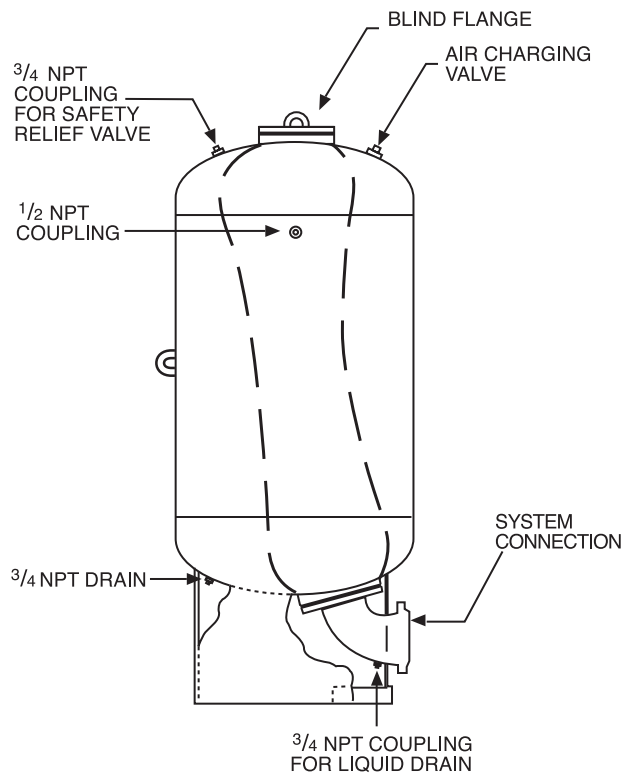
1. A licensed professional should check the complete system, including the Diatrol, yearly and more frequently as the system ages.

### Operation

1. The Diatrol should be installed in the line as close to the offending fixture as possible. Its sealed-in air pre-charge prevents water from entering it until the system pressure exceeds the pre-charge pressure. A properly pressurized tank will only allow a small volume to enter its bladder under normal flow conditions.
2. When a sudden valve closure occurs, the resulting pressure surge travels back from the valve to the bladder-type shock suppressor forcing the bladder to expand into the air cushion.
3. The shock is absorbed by the compressing of the air. After absorption of the shock, the system water pressure and the air chamber pressure equalize at the static pressure level.
4. Water temperature is not to exceed 240°F or fall below 35°F.

### Warranty

Diatrol models: One (1) Year Limited Warranty  
Visit [www.amtrol.com](http://www.amtrol.com) for complete warranty details.



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