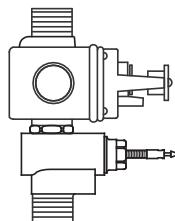


*Please read the instructions completely before beginning the installation.*

**Rough  
Pressure Balanced Control with Diverter Valve**  
Model Number: PB-3950



## INSTALLATION INSTRUCTIONS

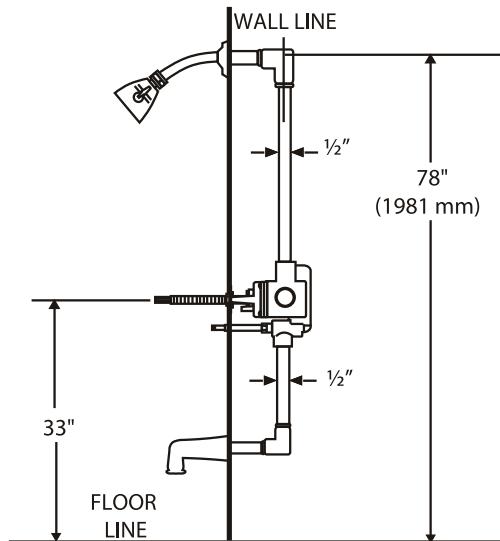
**Warning: Failure to follow these instructions, or improper operation, may damage the valve and void the warranty.**

- Make sure the water supply is off.
- Secure the valve firmly against the stud. Make sure the 1/2" shower outlet is in the up position
- Make sure to flush or raise grouting on the tiled wall surface.

### SPECIFICATIONS AND DIMENSIONS

Minimum operating pressure	20 psi
Maximum operating pressure	145 psi
Maximum test pressure	500 psi
Hot and cold water inlets	1/2" IPS
Shower outlet	1/2" IPS
Flow capacity 5 USGPM @	50 psi

Finished wall adjustment : see Illustration B



## Temerature Stop Set up

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Step 1 - Remove all handle trim parts, including the trimplate.

Step 2 - Remove all rough parts including the all-thread, stem key and lock plate.

Step 3 - Make sure the valve is fully turned clockwise. Install the mechanical stop with its left side touching the stop post as shown in Diagram A.

Step 4 - Install the limit stop over the mechanical stop as shown in Diagram B. The limit stop should point between the two S's of the logo TEMPRESS. This is the manufacturers recommended temperature limit. If the user desires a higher temperature than assemble the limit stop counter-clockwise from the manufacturers recommended position.

Step 5 - Reinstall the components of the valve and trim.

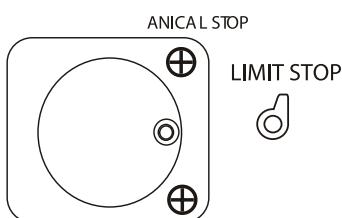


Illustration D1

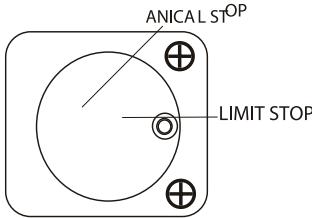


Illustration D2

## Troubleshooting

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MALFUNCTION	CAUSE	REMEDY
Shower control opening through hot.	Hot and cold water supplies have been connected in reverse	Rotate cartridge.
Tub filler or shower head drips after shutting off the valve.	Water remains in the piping column to the shower head (this is normal). Incorrect setting of the mechanical stop against the stop post causing a partially opened cartridge. O-ring seal on the inlet of the cartridge is faulty.	Allow approximately 3-5 minutes to drain column. Reset the mechanical stop as described in this page Check O-ring for cut or damage and replace if necessary.
Shower insufficiently hot.	Adjustable handle position stop incorrectly set.	Check hot water source temperature setting.
No flow of hot or cold water.	Either the hot or cold side is not fully pressurized. Debris caught inside the inlet of the cartridge.	Be sure service stops (when applicable) are both wide open and system is fully pressurized. Remove cartridge and flush out or remove any debris lodged inside the hot or cold inlet.
Valve body too deep into the wall.	The measured rough in or finished wall surface is incorrect.	Install the extension kit. PM460X(long sleeve). PM461X (long plastic upper link).

NOTE: AT NO TIME TRY TO STOP DRIPPING BY APPLYING EXTREME FORCE WHEN CLOSING THE VALVE.

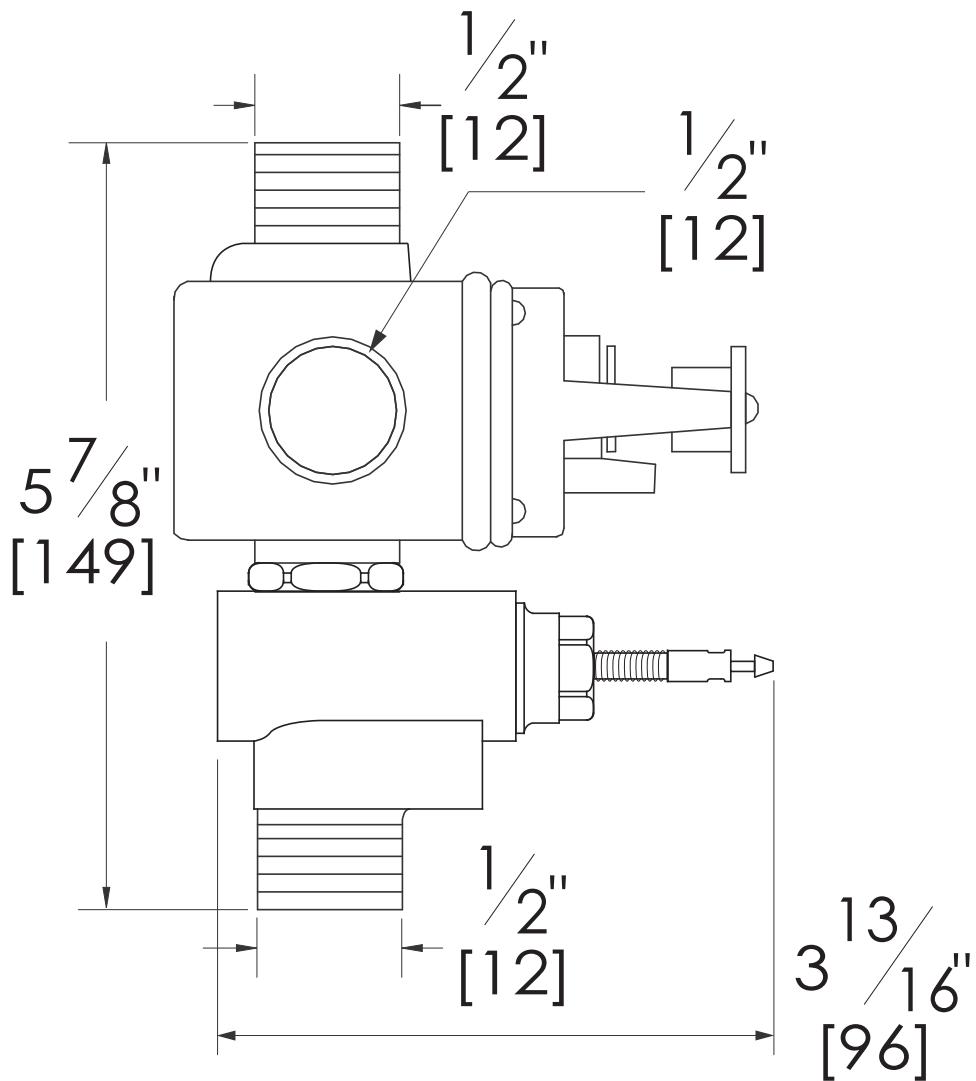
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The measurements shown are for reference only. Products and specifications shown are subject to change without notice.

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## Specification Sheet

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## FINISH CARE INFORMATION

**WARNING:** Do not clean your SANTEC product with ammonia (Window cleaner), bleach, soap, acids, abrasives, harsh polish, harsh cleaners, a coarse surfaced cloth, coarse sponge, or any type of scouring pad. Doing so may ruin your faucet finish and/or void the warranty.

Thank you for making SANTEC a part of your lifestyle and luxury spa experience. Our products have been created as works of enduring quality and sophisticated design.

Luxurious finishes need proper care and attention, so in order to understand how to properly clean your distinctive luxury finish, please refer to the finish care information below:

Your SANTEC product can be identified in one of two categories: clear coated finishes or non-clear coated finishes. Clear coated finishes are more scratch-sensitive and are more reactant to harsh cleaning chemicals than non-clear coated finishes. Once you have identified the specific luxury finish of your SANTEC product, please follow the important corresponding care instructions.

### CLEAR COATED FINISHES

We recommend that all faucets, drains, etc., be gently wiped dry with a soft cloth after use to avoid water spotting and water deposit build-up. A mild liquid hand soap may be used occasionally if desired. Use of a non-abrasive carnauba wax will add protection to the finish and should be used if the faucets will not be dried after use. For clear coated finishes, it is recommended to clean your product weekly with a soft moist cloth.

### NON-CLEAR COATED FINISHES

We recommend that all faucets, drains, etc., be gently wiped dry with a soft cloth after use to avoid water spotting and water deposit build-up. A mild liquid hand soap may be used occasionally if desired. Use of a non-abrasive carnauba wax is occasionally required and will add protection to the finish if the faucets will not be dried after use.

### TO OBTAIN WARRANTY SERVICE

Please read 'WHAT IS COVERED BY OUR WARRANTY' and 'EXCLUSIONS AND LIMITATIONS OF WARRANTY' sections to understand what is and what is not covered. Please have ready the proof of purchase (original sales receipt), description of the problem, and carefully package the product or defective part with postage prepaid. Then, please contact your local SANTEC Showroom or write to SANTEC Technical Services.



## LIFETIME LIMITED WARRANTY

SANTEC is committed to enhancing your bathroom experience by creating luxury products that will provide enduring satisfaction. Every effort has been made to satisfy the highest standards of design and production, to create lasting peace of mind for our customers. We provide the following limited warranties on our products:

### LENGTH OF WARRANTY & WHO IS COVERED BY OUR WARRANTY

This warranty extends to the original consumer purchaser only and extends for as long as the original purchaser owns the product and the home in which the product is installed.

### WHAT IS COVERED BY OUR WARRANTY

1. FINISHES: SANTEC Polished Chrome, Polished Nickel and Satin Nickel finishes carry a Lifetime Limited warranty against manufacturing defects and tarnish to the original purchaser. All other finishes carry a ten (10) year limited warranty against manufacturing defects and tarnish to the original purchaser only.
2. CARTRIDGES: Santec cartridges carry a lifetime limited warranty, with the exception of thermostatic and pressure balanced cartridges, which carry a three (3) year limited warranty against manufacturing defects to the original purchaser.
3. PARTS: Santec parts carry a 10-year limited warranty against manufacturing defects, to the original purchaser.

### EXCLUSIONS & LIMITATIONS OF WARRANTY

This warranty does not cover:

1. Damage due to negligence, accident, abuse, improper installation, or improper maintenance such as, but not limited to: heat from soldering during installation, the use of plumber's putty, damage from tools used during installation, the use or exposure to chemicals or cleaning products either abrasive or non-abrasive, or the use of any cleaning tool or product other than a soft, clean cloth. Reverse osmosis may also shorten the life of the finish.
2. Changes in the finish or in the product due to normal wear or aging does not cover any products or parts which have been altered or used in a manner not typical for the product.
3. Loss, damages, or expense, incidental or consequential whatsoever, originating from the purchase, installation, use, repair, failure, or replacement of any SANTEC product or part, allowed by law.
4. Commercial and/or Industrial installations and use of the product.
5. This warranty does not include labor, travel charges, or any costs incurred for repair, removal, installation, servicing, diagnosing, or handling of either defective or replacement parts.
6. Damage or deterioration caused by environmental impacts.

SANTEC reserves the product components of the covered product will be repaired, refinished, or replaced at the sole discretion of SANTEC. SANTEC reserves the right to examine any product claimed defective prior to any warranty claim being accepted or processed, at its sole discretion. This warranty gives you specific legal rights and you may have other rights which may vary from state to state.

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