

INSTRUCTIONS FOR INSTALLING SERIES 25AUB WATER PRESSURE REDUCING VALVES

"ATTN. INSTALLER: After installation, please leave this Instruction Sheet for occupant's information."

INSTALL VALVE IN THE LINE WITH SUPPLY PRESSURE CONNECTED TO THE "IN" CONNECTION.

These regulators can be installed horizontally in either an upright or inverted position or in a vertical position, and must be installed in an accessible location to facilitate servicing the regulator.

For household use install the reducing valve, when possible so that the sill cock line is on the high or street side of the reducing valve. Before installing the reducing valve flush out the line to remove loose dirt and scale which might damage valve disc and seat. On valves having strainers the screen should be removed and cleaned at least once every six months, oftener if water conditions are bad.

TO READJUST reduced pressures, loosen check nut and turn adjusting screw clockwise to raise reduced pressure and counter clockwise to lower reduced pressure.

When a reducing valve is used it makes a closed system; therefore, pressure relief protection must be provided on the downstream side of the regulator to protect equipment.

"THERMAL EXPANSION BY-PASS MODEL" WATER PRESSURE REGULATORS—SERIES 25AUB

The use of a water pressure reducing valve normally creates a closed system. When water is heated in a closed system, it expands causing an increase in pressure. This pressure may increase to the set pressure of the relief valve (on the water heater) causing it to drip, thus releasing the expanding water and protecting the system against excessive pressure. This increase in the system pressure over that regulated by the reducing valve is called "thermal expansion pressure".

No. 25AUB By-Pass Model water pressure reducing valves, are an economical solution of this annoyance, since under certain conditions it allows the expanding water to escape back into the supply main before it can affect the relief valve.

Effectiveness of the Thermal Expansion by-pass feature is limited to systems where the street main pressure is less than the setting of the heater relief valve. Therefore, the highest allowable pressure setting for the relief valve should be selected for widest effectiveness of a Thermal Expansion by-pass.

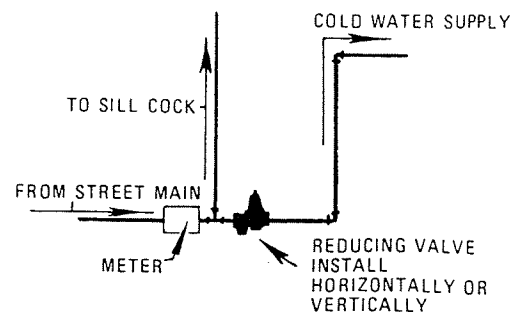
Annual inspection of all water system safety and control valves is required and necessary. Regular inspection, testing and cleaning assures maximum life and proper product function.



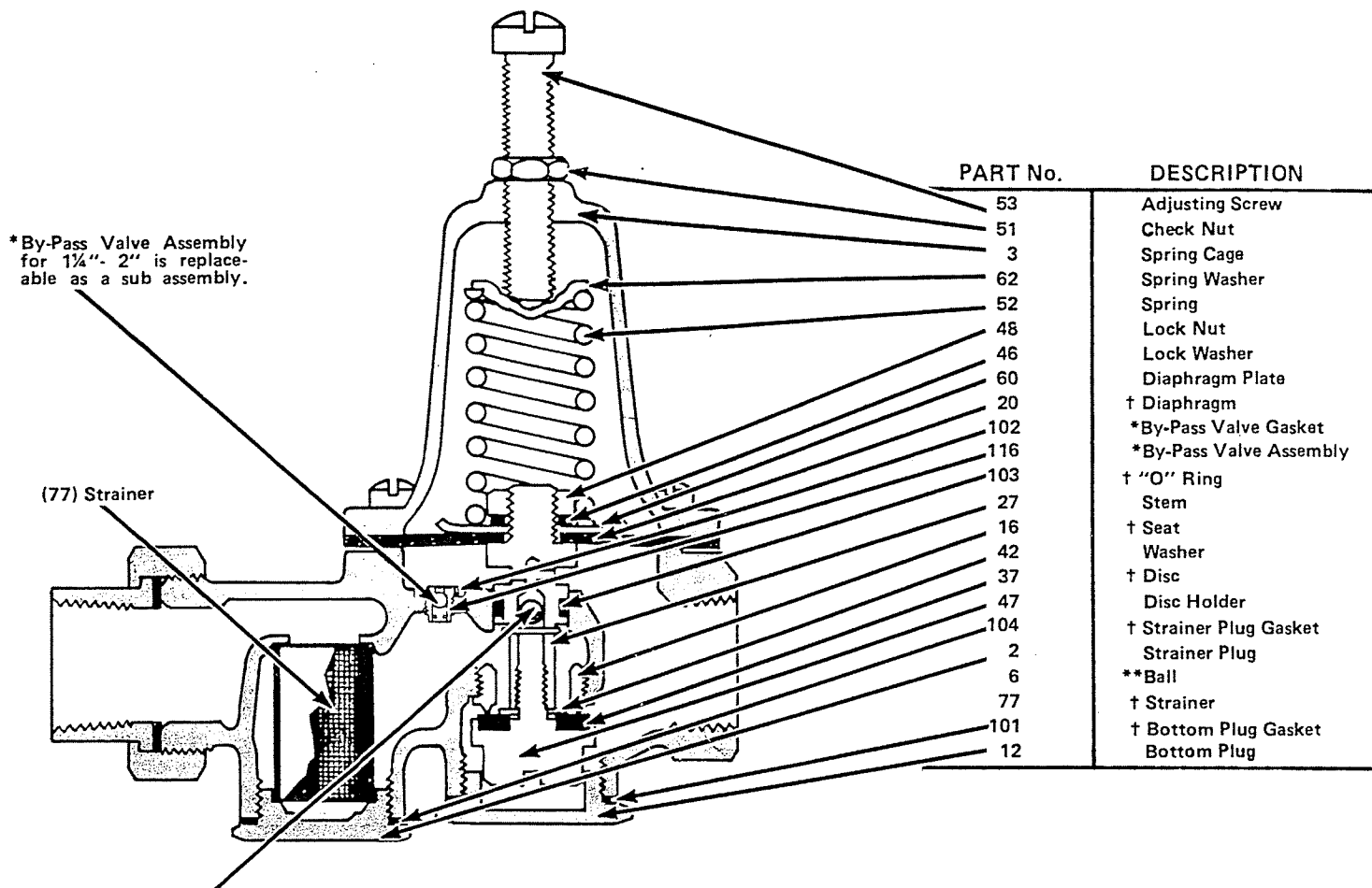
How to Determine Thermal Expansion

When high house pressure is evident, open a cold water faucet. If your pressure gauge shows an immediate drop to the regulated reduced pressure setting it indicates the regulator is operating correctly and that thermal expansion is the cause of the expanded pressure. For additional detailed information, send for folder F-RV.

MAIN LINE SERVICE



GENERAL SERVICE DATA SERIES 25AUB



PART No.	DESCRIPTION
53	Adjusting Screw
51	Check Nut
3	Spring Cage
62	Spring Washer
52	Spring
48	Lock Nut
46	Lock Washer
60	Diaphragm Plate
20	† Diaphragm
102	*By-Pass Valve Gasket
116	*By-Pass Valve Assembly
103	† "O" Ring
27	Stem
16	† Seat
42	Washer
37	† Disc
47	Disc Holder
104	† Strainer Plug Gasket
2	Strainer Plug
6	**Ball
77	† Strainer
101	† Bottom Plug Gasket
12	Bottom Plug

** (6) By-Pass for 1/2" - 1" sizes only are non-replaceable.

MAINTENANCE INSTRUCTIONS

1. Remove bottom plug (12) and gasket (101).
2. Loosen disc holder (47) with screwdriver or socket wrench.
3. Inspect disc (37) and clean or replace.
4. Seat (16) can be removed, if necessary, with an Allen wrench or socket wrench.
5. Unscrew and remove adjusting screw (53), check nut (51), and spring cage screws. Lift off spring cage (3), spring washer (62), and adjusting spring (52).
6. Loosen and remove lock nut (48), washer (46), plate (60), and diaphragm (20).
7. Lift stem assembly (27), upwards to remove from body.
8. To reassemble valve, follow above instructions in reverse. Turn in adjusting screw for required reduced pressure adjustment.

Repair Kits

† Kit for No. 25AUB includes all items shown above.

Ordering Code No.	Kit No.	Size Inches
864941	1/2" 25AUB-RK	1/2
864943	3/4" 25AUB-RK	3/4
864942	1" 25AUB-RK	1
864944	1 1/4" 25AUB-RK	1 1/4
864945	1 1/2" 25AUB-RK	1 1/2
864946	2" 25AUB-RK	2

When Ordering, Specify:

1. Ordering Code Number
2. Size of Valve
3. Type Number
4. Model Shown on Nameplate



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LIMITED WARRANTY: Watts Regulator Company warrants each product against defects in material and workmanship for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental or consequential damages, including, without limitation, damages or other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemicals, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. THE COMPANY MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY.