

Relief Valve Assembly Instructions

Series 825YD, 826YD, 860, 880V

Repair Kits: 905102, 905316, 905192, 905187, 905188,
905189, 905190, 905191, 905227, 905228, 905229

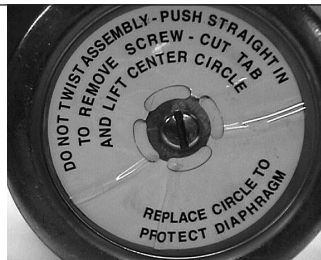
STEP #1:

When cleaning relief valve, remove module assembly from relief valve body by pulling, not twisting.



STEP #2:

If module repair is necessary, remove plastic label from around pan head retaining screw.



STEP 3:

Remove retaining screw and completely disassemble relief valve module. Thoroughly clean main guide.



STEP 4:

New inner diaphragm will come in kit with fabric side out and the beaded flange positioned up, as shown.



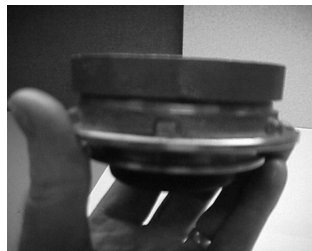
STEP 5:

Position inner diaphragm over the main guide and drop into place with beaded flange fully engaging groove on main guide.



STEP 6:

Clean or replace plastic slip ring. Clean the brass diaphragm retainer. Lightly lubricate retainer threads with a food grade petroleum jelly or equal. Place slip ring into retainer. Screw retainer with slip ring onto main guide, securing inner diaphragm. Make sure the retainer is secure.



STEP 7:

Push inner diaphragm back through main guide until top of the diaphragm is flush with the top of the retainer.



STEP 8:

Turn guide/diaphragm assembly upside down and work disc holder into guide until flush with diaphragm.



STEP 9:

Push the disc holder through the guide while holding the diaphragm flush against the end of the holder. Continue until the holder stops on the guide. Place the assembly on a flat surface with the diaphragm facing up.

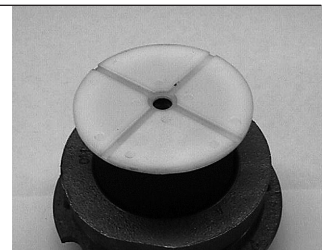


This will ensure that excess rubber will roll to the inside of the main guide when the holder assembly strokes, otherwise the diaphragm will crack and leak.



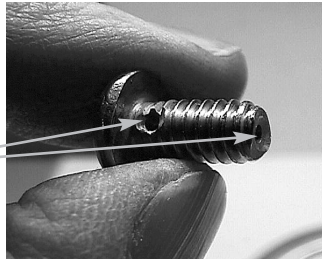
STEP 10:

Place flow washer on top of the diaphragm with cross channels facing upward (Series 860 and 880V ONLY). Line up the center holes, then place the spring into the guide.

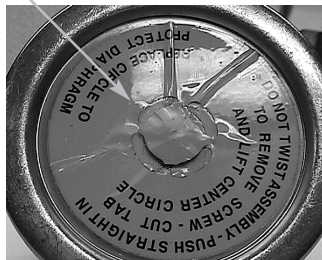


STEP 11:

Place the spring button over the spring. While pressing the button firmly against the inner diaphragm, insert the pan head retaining screw. 860 and 880V require a drilled flow screw.



Flow screw must have two drilled holes intersecting each other and unobstructed. Place the previously removed decal or tape over the screw head to protect the outer diaphragm.



STEP 12:

Reassemble disc and lower the guide to the disc holder. DO NOT ALLOW THE DISC HOLDER TO TURN OR TWIST DURING THIS OPERATION. Clean, lubricate and install main guide O-ring. Models 825YD and 826YD use a Stainless Steel Lower Guide and a Disc Washer in place of the Plastic Lower Guide as shown.



STEP 13:

Place new outer diaphragm upside down on a flat surface and insert the module as shown.



STEP 14:

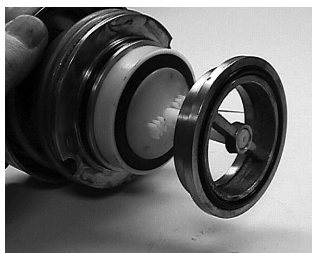
Push the flange section of the diaphragm down around the base of the module until it is partially inverted as shown.



STEP 15:

Clean inside surfaces of the relief valve and push in the module assembly, being careful not to pinch the guide's O-ring.

Note: The lower guide must align itself properly with the seat ring once all of the parts are assembled in the body for the relief valve to function properly.



STEP 16:

Take the partially inverted diaphragm and place it over the spring button of the module. Take a blunt tool and carefully work the diaphragm in and around the button.



Line up diaphragm bolt holes with body flange bolt holes.



STEP 17:

Replace the cover and check for proper positioning.



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WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

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