

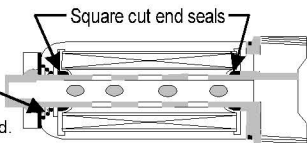
# INSTALLATION INSTRUCTIONS

These filter elements are a new, improved design. Rubber ring seals are used for internal sealing instead of the flat cork gaskets used in the past. Depending on the type of housing, follow the instructions listed below.

**LINE TYPE** If you install this new element in a Gresen line-type housing, models F, GF, RF, or NRF-201, -203, -215, -218, -315, -401, -403, -415, -418, or -615:

Replace Gresen 1509-10 old style element or 3293-10 new style element with this element.  
Replace Gresen 1567-33 old style element or 3294-33 new style element with this element.

With old style elements conical spring had small end next to housing. Turn this spring over so that the large end is next to the housing as illustrated.



Lubricate both rubber seals supplied with the element. Install one seal over the center post and against the back-up washer. Place element over center post with the rubber seal fitting into the recess in the element end cap. Then install the other seal into the recess at the top end of the element.

Lubricate the housing O-ring before installing. Position housing assembly into place and tighten center post.

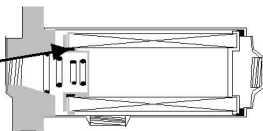
**CAUTION:** Keep housing from rotating when tightening center post to 20 ft. pounds torque.

**CAUTION:** Replacement of metal screen(wire mesh) element with pleated paper filter elements will change flow results and increase pressure differential. It is not recommended.

**IN-LINE TYPE** If you install this new element in a Gresen IN-Line type housing, model LF-201, -203, -215, -218, or -315:

Replace Gresen 3143-10 old style element or 3276-10 new style element with this element.  
Replace Gresen 3144-33 old style element or 3278-33 new style element with this element.

Square Cut Rubber Seal



Lubricate one rubber seal and insert into recess at the top end of the element. (The other seal is not used in this type housing.)

Insert the by-pass retainer assembly into the element and small end of conical spring into the retainer.

Lubricate the housing seal and re-assemble the housing assembly to the filter head.