

## REPLACEMENT OF DIAPHRAGM – ELEKTROGAS RAG regulator 1:1

### CAUTION:

Shut off the air/gas supply at the main manual shut-off valve before proceeding with servicing.

### STEPS FOR DISASSEMBLY:

A-Remove the screws from the filter cover (6).

B-Remove filter cover (1) with the seal (5) and the disc spring (2).  
If necessary, remove and clean the filter (7).

C-Remove the screws from the diaphragm cover (10).

D-Remove the diaphragm cover (11) and the main spring (12).

E-With tongs or similar device, hold the disc at the ribs to keep it still (3 – see picture on right) and unscrew the central nut (15) at the opposite side.

F-Remove the washer (16), the main diaphragm (18) with plates (17-19), and the spacer (20).

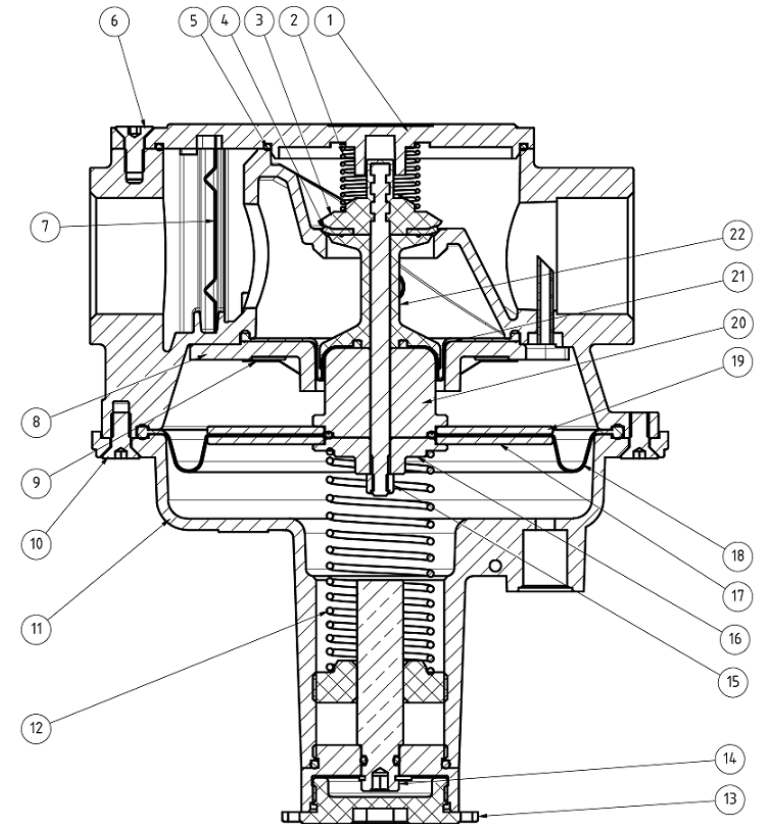
G- Remove the screws (9) from the compensation plate.

H-Remove the compensation plate (8), the compensation diaphragm (21), and the disc spacer (22).

I-Remove the disc with its seal (3, 4).

In the replacement kit you will find:

- 1 x main diaphragm (18)
- 1 x compensation diaphragm (21)
- 1 x disc seal (4)
- 1 x filter cover seal (5)



## STEPS FOR ASSEMBLY:

A-Put the new seal on the disc, paying attention that it is perfectly centered (see picture on right).

B-Insert the disc with its seal in the body and insert the disc spacer. Pay attention; the disc and spacer have some protrusions which must couple together.

C-Holding the disc, place the new compensation diaphragm and its plate.

D-Maintaining your hold on the disc, fasten the compensation plate with screws.

E-Maintaining your hold on the disc, replace the diaphragm spacer (pay attention; these parts some protrusions which must couple together), one metallic plate, the new main diaphragm and the second plate.

F-Maintaining your hold on the disc, place the washer and screw the central nut. Use 1.5 Nm torque for size  $\frac{3}{4}$ "-1" and 3 Nm for size 1" $\frac{1}{2}$ "-2".

G-Replace the main spring, then the main cover, and then fasten it with screws.

H-Remove the old seal from the filter cover and replace it with the new one. If necessary, use some grease to keep the seal in its seat.

I-Replace the disc spring and then replace the filter cover.

J-Fasten the filter cover with screws.

When reassembly is complete, perform a leak test prior to use.

If necessary, set the regulator by turning the screw (14) under the cap (13).

