

Fig. 1

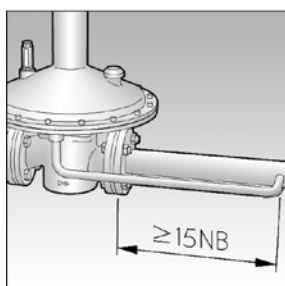


Fig. 2

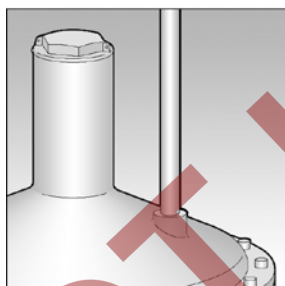


Fig. 3

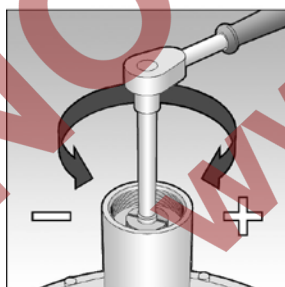


Fig. 4

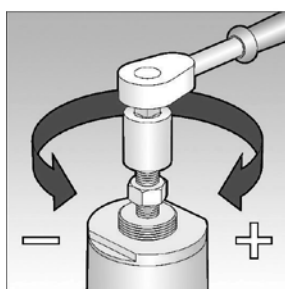


Fig. 5

## INSTALLATION CONDITIONS

Body pressure range: 0 - 4 Bar

Temperature range: -20°C to +70 °C

## OPERATING INSTRUCTIONS

- Ensure that this product is suitable for the chosen application.
- Installation, adjustment and maintenance by authorised, trained personnel only.
- When being fitted to an appliance, refer to the appliance manufacturers instructions.
- Ensure that the installation provides adequate protection to prevent over pressurisation.
- Traffic, wind and earthquake loadings should be considered when specifying the installation.
- The unit should be protected from the decomposition of unstable fluids.

**Warning!** Incorrect installation, adjustment, modification, operation and maintenance may cause injury or damage.  
Read the instructions before use. This control must be installed in accordance with the rules in force.

## FITTING UNITS INTO PIPEWORK

1. The unit should not be installed in a corrosive environment.
2. The ambient temperature (surface temperature) should be within the limits stated on the regulator catalogue.
3. Check the maximum allowable pressure on the regulator nameplate against the installation specification.
4. Remove the protection from the inlet and outlet ports.
5. Ensure that the installation pipework is thoroughly clean.
6. The direction of gas flow must be the same as the arrows on the regulator body. See Fig. 1.
7. Install regulator into pipework.
8. It is advised that a slam shut device is fitted in the installation to protect downstream equipment.

### INSTALLATION OF IMPULSE LINE

1. Remove the plastic protection plug.
2. Connect the impulse line (1/2"), using a jointing compound approved to national standards, and lead to a point downstream not less than fifteen times the nominal pipe diameter from the outlet. See Fig. 2.

### INSTALLATION OF VENT LINE. (If Required)

1. Remove breather cover from regulator top case / cover.
2. Connect the vent line (1/2"), using a jointing compound approved to national standards, and lead to atmosphere in accordance with national standards. Ensure that no water can penetrate vent pipe. See Fig. 3.
3. If vent connection is to be used for top loading or other similar use refer to your own installation instructions.

### SETTING THE OUTLET PRESSURE.

1. Turn off inlet and outlet valves.
2. Remove top cap.
3. For L.P. 50mm and 80mm unit insert 1/2" square socket extension piece into square hole, or flat blade screwdriver into slot in spring adjuster. See Fig. 4.
4. For M.P. 50mm and 80mm unit, slacken locknut on spring adjusting stem and connect suitable spanner (24mm A/F) to hexagon of spring adjusting stem. See Fig. 5.
5. For 100mm unit connect suitable spanner (27mm A/F) to hexagon of spring adjusting nut. See Fig. 6.
6. Turn spring adjustment anticlockwise to reduce pressure on loading spring.
7. Slowly turn on inlet supply.
8. Increase loading on spring by turning spring adjustment clockwise until the required outlet pressure, plus approximately 2.5mbar, is obtained.
9. Commission downstream appliance(s).
10. Trim the outlet pressure of the regulator, if necessary, when normal working flow rates have been achieved.
11. Replace the top cap.

# J123: Commissioning Instructions

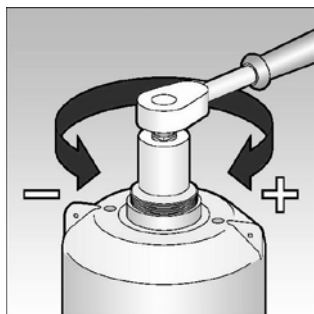


Fig. 6

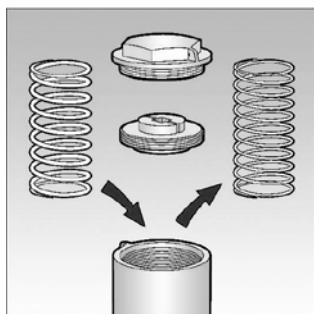


Fig. 7

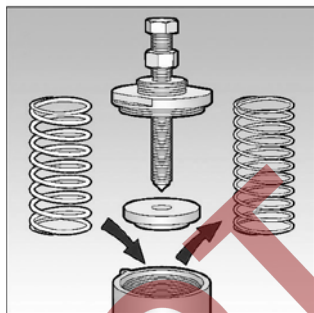


Fig. 8

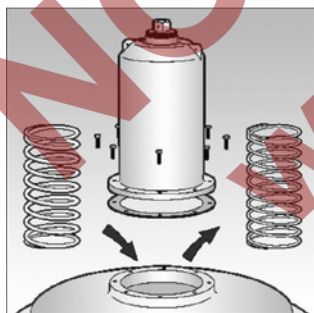


Fig. 9

IF THE REQUIRED OUTLET PRESSURE CAN NOT BE ACHIEVED WITH THE SPRING FITTED.

1. Choose a loading spring from the catalogue that will give the required outlet pressure range.

For L.P. 50mm and 80mm units: See Fig. 7.

2. Remove top cap.
3. Fully unscrew and remove the spring holder.
4. Remove loading spring.
5. Insert new loading spring.
6. Screw spring holder back in place ensuring that spigot is located in loading spring.
7. Adjust the outlet pressure, as described earlier, until the required setting is achieved.
8. Replace top cap.

For M.P. 50mm and 80mm units: See Fig. 8.

1. Remove top cap.
2. Slacken locknut on spring adjusting stem.
3. Turn spring adjuster anticlockwise to reduce loading on spring.
4. Unscrew spring adjusting bush.
5. Remove top spring holder and loading spring.
6. Insert new loading spring.
7. Place top spring holder over spring ensuring that spigot is located in loading spring.
8. Screw spring adjusting bush into top cover making sure that the end of the stem is located in the recess in the top spring holder.
9. Adjust the outlet pressure, as described earlier, until the required setting is achieved.
10. Tighten locknut.
11. Replace top cap.

For 100mm units: See Fig. 9.

1. Remove top cap.
2. Turn spring adjusting nut anticlockwise to reduce loading on spring.
3. Remove 8 hexagon head screws that secure top cover to top diaphragm case. Carefully lift off top cover assembly and gasket.
4. Remove loading spring.
5. Install new loading spring over spring location washer in centre of diaphragm.
6. Replace gasket and top cover assembly and secure with 8 hexagon head screws.
7. Adjust the outlet pressure, as described on earlier, until the required setting is found.
8. Replace top cap.

## Contacts

United Kingdom  
Elster Jeavons  
Paton Drive, Tollgate Business Park,  
Beaconside, Stafford, Staffs ST16 3EF  
T +44 1785 275200  
F +44 1785 275305  
www.elster-instromet.com  
info.jeavons@gb.elster.com

Germany  
Elster GmbH  
Steinern Str. 19 - 21  
55252 Mainz-Kastel  
T +49 6134 605 0  
F +49 6134 605 223  
www.elster-instromet.com  
info@elster-instromet.com

USA  
Elster American Meter  
2221 Industrial Road  
Nebraska City, NE 68410-6889  
T +1 402 873 8200  
F +1 402 873 7616  
www.elster-meterservices.com

C1232EN02

A2.7.2012