



**AUTEXIER**

**MANUFACTURER OF INDUSTRIAL MARINE AND OIL & GAS VALVES  
IN BRONZE AND ALUMINIUM-BRONZE**

93, rue Louis Blanc - 02300 CHAUNY - FRANCE

Tel : +33 (0)3.23.52.02.86 - Fax : +33 (0)3.23.39.52.28

[www.autexier.fr](http://www.autexier.fr)

## Instruction for use for pressure regulating valves



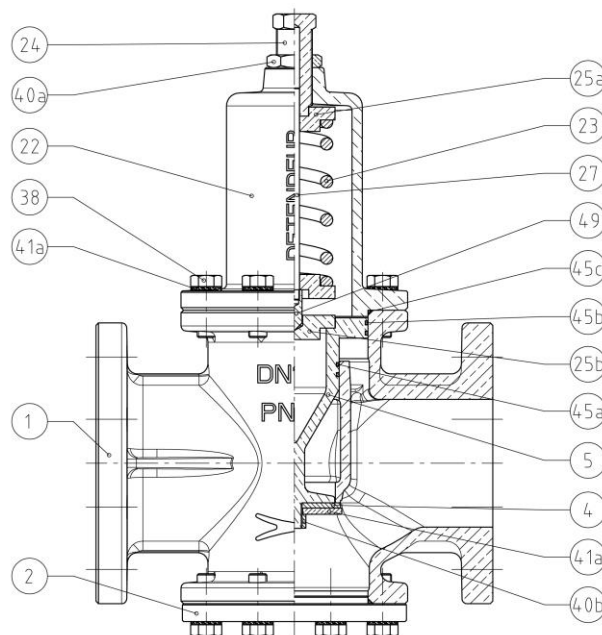
**176 / AU176 / AN176**

### Operation

When the fluid arrives through the upstream orifice, it reaches the *disc 4*. If the pressure at the level of the downstream orifice is lower than that which has been calibrated, the force exerted by the *spring 23* on the assembly consisting of the *support lower 25a*, of the *needle tip 49* and of the *needle support 25b*, becomes greater than that exerted by the pressure prevailing in the downstream orifice. Pushing on the *piston 5*, which causes the *lower support 25a*, the *needle tip 49* and the *needle support 25b* to descend. The pressure in the downstream orifice tends to increase until the desired pressure is reached by the calibration of the *spring 23*. Once this pressure is reached, the *disc 4* comes into contact with the seat of the *body 1* and blocks the flow of fluid, then thereby prevents the increase in pressure beyond that desired.

The desired pressure downstream of the regulator is obtained by the *adjusting screw 24*, if it is tightened more, it mainly forces the *spring 23*, which has the effect of increasing the downstream pressure and vice versa, assuming that this *adjusting screw 24* is released, the *spring 23* is less constrained, then the downstream pressure obtained is lower. The adjustment obtained is blocked by a *nut 40a*.

Ref. 176 / AU176 / AN176



Réf. Documentaire 0904DA168E version 00 du 08/07/2021

