

Regulator Dampening Device and Method

ABSTRACT

A flow regulator (50) includes a flow regulating part (52) configured to receive at an inlet (66) a working fluid at a first pressure and to release the working fluid at an outlet (68) at a second pressure; a slide (60) provided inside the flow regulating part (52) and configured to move along an axis (62) to reduce the pressure of the working fluid; a control part (54) attached to the flow regulating part (52), the control part (54) including a chamber (76); a spring housing (72) provided in the chamber (76) and connected to the slide (60) through a shaft (70), the spring housing (72) configured to move the slide (60) along the axis (62); a cap (82) provided in the chamber (76) and facing the spring housing (72), the cap (82) being configured to have plural blind holes (94); and plural pins (80) extending along the axis (62) and attached to the spring housing (72), the plural pins (80) being configured to enter the plural blind holes (94).

Figure 5