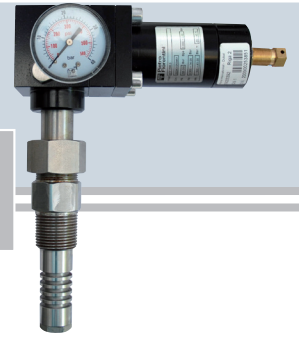




Pietro  
Fiorentini®

Anti-freeze device

ATF 15



The **ATF Anti-Freeze** is a single-stage spring loaded pressure regulator suitable for high and medium pressure application for natural gas and all non corrosive gases.

It can be used as:

- No-freezing pressure regulator for small capacity applications;
- Pressure regulators pilots feeding with anti-freeze function;
- Instrument feeding (actuators, pneumatic instruments, positioner ecc.)



### MAIN FEATURES

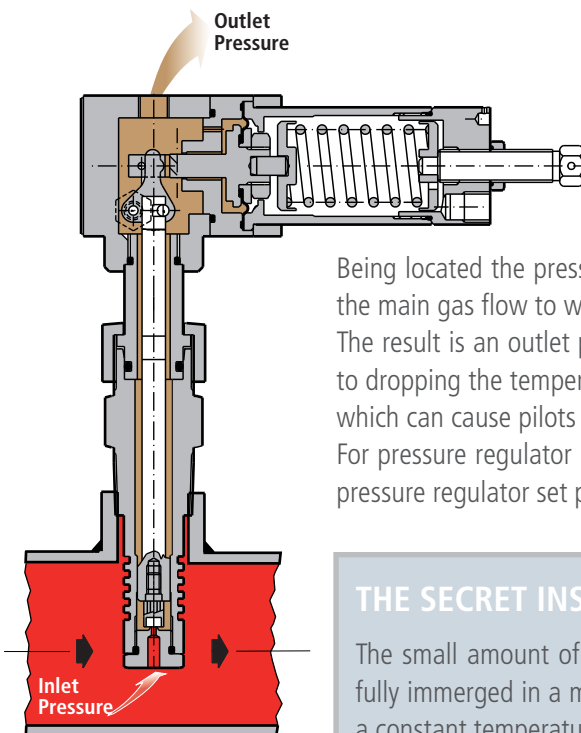
Design pressure: 250 bar  
Inlet pressure range: 2 – 250 bar  
Outlet pressure range: 1,5 – 60 bar  
Accuracy class: up to AC 5  
Lock up class: up to SG 10  
Working temperature range: -20°C - + 60°C  
Cg factor : 3; K1 Factor: 90  
Internal sensing line  
Integrated anti-freeze  
Pipe connections: 1" NPT  
Outlet connections: Rp 1/4" ISO 7/1

### WORKING PRINCIPLE

Being located the pressure reduction inside the main pipeline, the **ATF 15** pressure regulators use the main gas flow to warm the laminating seat avoiding freezing during the pressure reduction. The result is an outlet pressure with a temperature above 0°C avoiding all the phenomena related to dropping the temperature below 0°C after the pressure reduction (hydrates or sulphur formation which can cause pilots clogging).  
For pressure regulator pilot feeding the suggested set point for the **ATF 15** is 5-6 barg above the pressure regulator set point.

### THE SECRET INSIDE

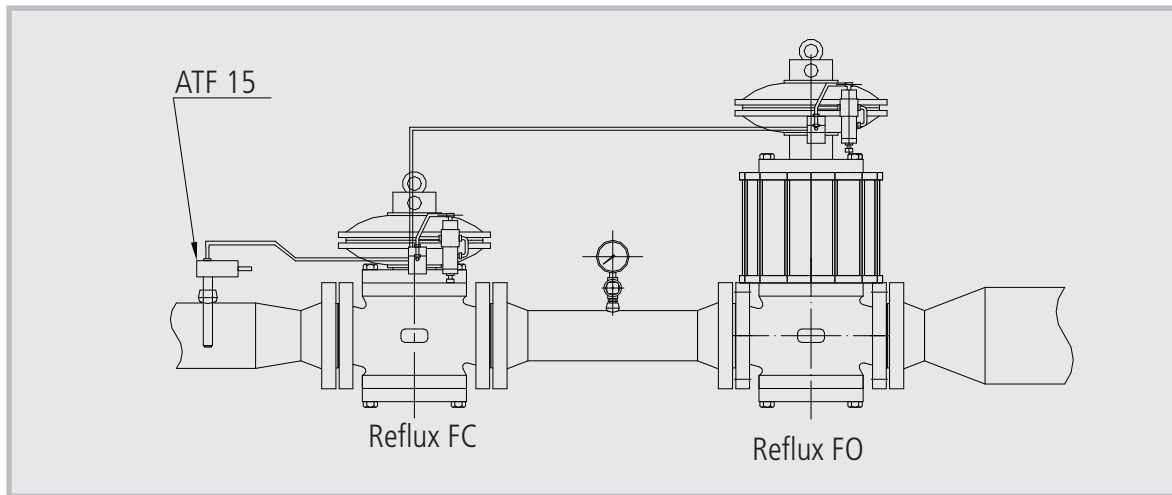
The small amount of gas feeding the **ATF 15** encounters the main pressure drop across a seat fully immersed in a much bigger amount of gas, thus allowing the pressure reduction to occur at a constant temperature equal to the temperature of the inlet gas.



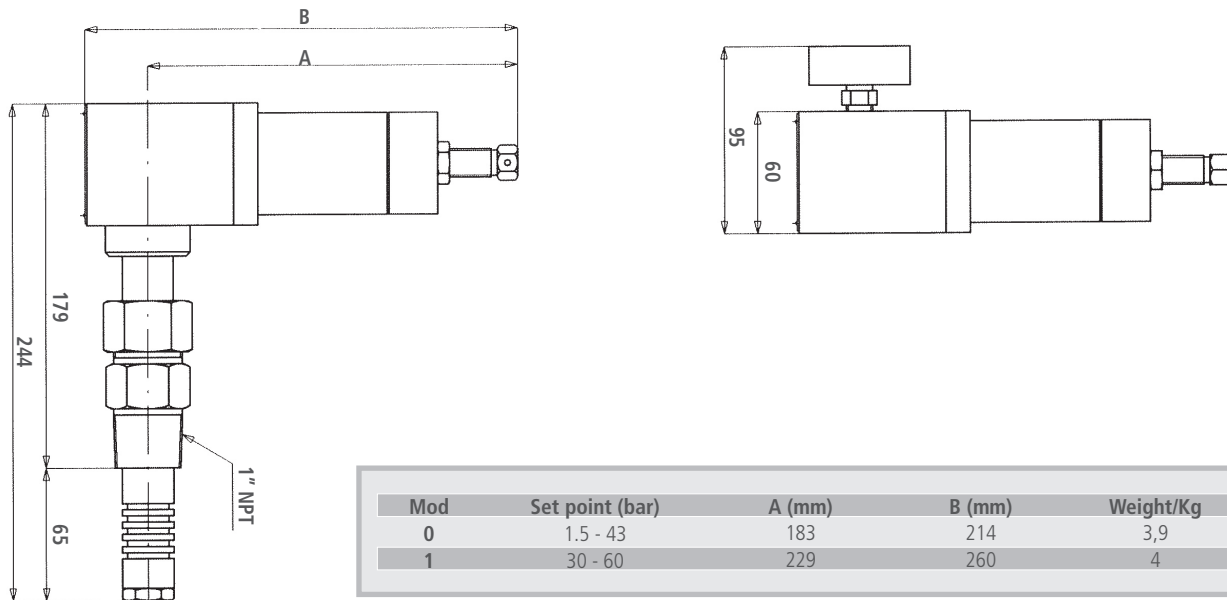
# Designed With Your Needs In Mind

- Compact Design
- Easy Maintenance
- Fast Response Time
- High Turn Down Ratio
- High Accuracy
- Fixed Orifice
- Wide Range of applications

## TYPICAL INSTALLATION



## DIMENSIONS & WEIGHT



The data contained is not binding. We reserve the right to changes without prior notice.

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