



**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 applications 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, etc.)



MAIN FEATURES

Design pressure: 3,190 PSIG
Inlet pressure range: 29 - 3,190 PSIG
Outlet pressure range: 21.75 - 870 PSIG
Accuracy class: up to AC 5
Lock up class: up to SG 10
Working temperature range: 4°F - + 140°F
Cg factor : 3; K1 Factor: 90

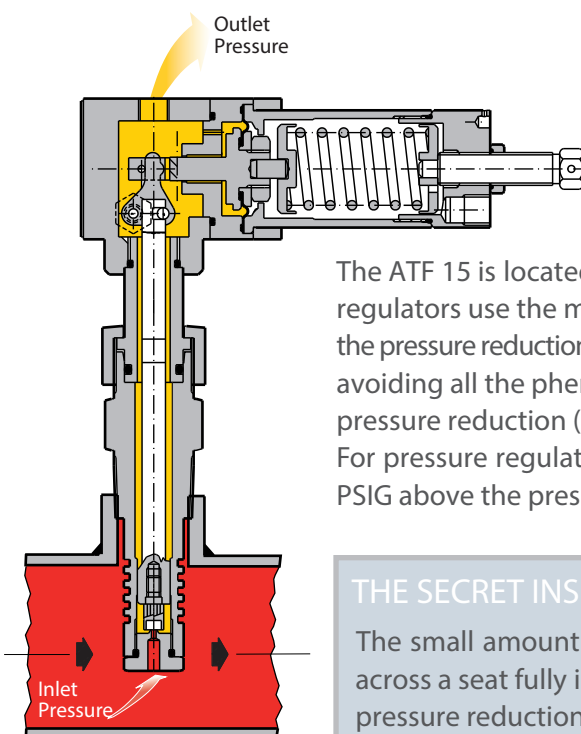
Internal sensing line
Integrated anti-freeze
Pipe connections: 1" NPT
Outlet connections: Rp 1/4" ISO 7/1

WORKING PRINCIPLE

The ATF 15 is located in the upstream pipe 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 32°F, avoiding all the phenomena related to dropping the temperature below 32°F 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 72.5 - 87 PSIG above the pressure regulator set point.

THE SECRET INSIDE

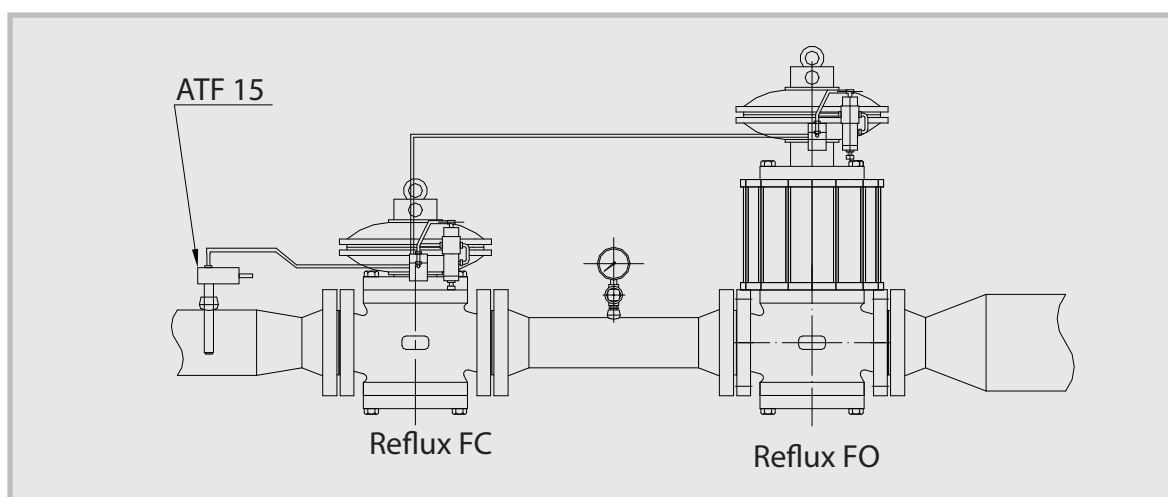
The small amount of gas feeding the ATF 15 encounters the main pressure drop across a seat fully immersed in a much bigger amount of gas, thus allowing the pressure reduction to occur at a constant temperature equal to the temperature of the inlet gas.



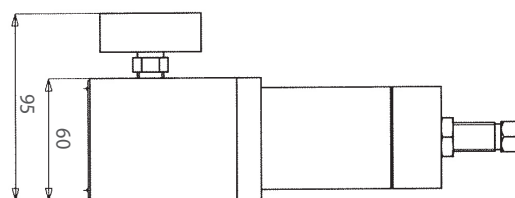
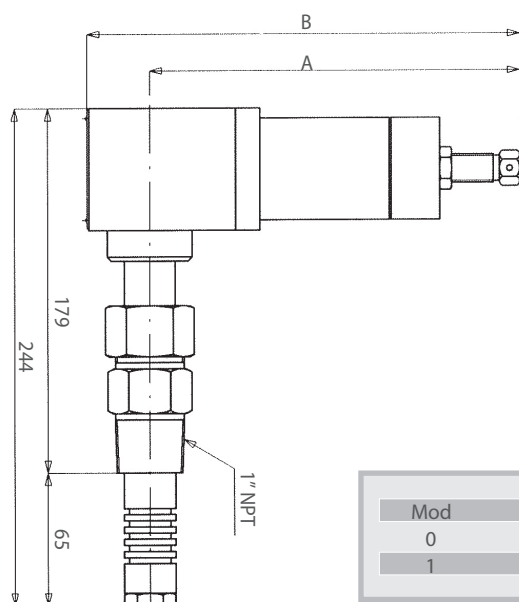
Designed With Your Needs In Mind

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

TYPICAL INSTALLATION



DIMENSIONS & WEIGHT



Mod	Set point (PSIG)	A (mm)	A (mm)	Weight/Kg
0	21.75 - 623	183	39	39
1	435 - 870	229	4	4

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

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