

ERG-SE

DOUBLE STAGE
GAS PRESSURE REGULATOR

metrixitalia

ERG-SE

General characteristics and applications

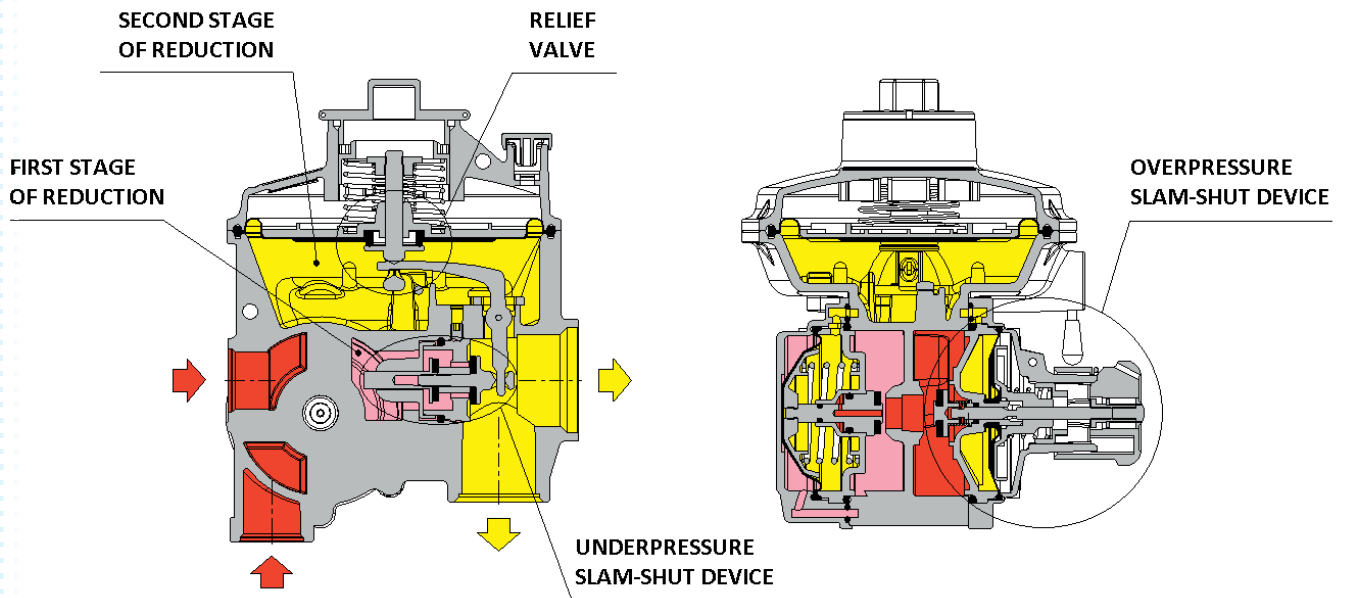
ERG-SE is a double stage self-operated pressure regulator designed for domestic and commercial applications and suitable for use with natural gas, LPG and non-corrosive gases.

Usually installed before the gas meter, into the gas boxes or on riser mains, it ensures the correct supply of gas to the final user starting from a medium pressure distribution network (0,5 – 5 bar). In case of underground installation or closed rooms installation, the vent orifice may be connected to the atmosphere through a pipe.

The modular concept of the ERG-SE and a large availability of inlet and outlet connections, allow to match the particular customer requirements.

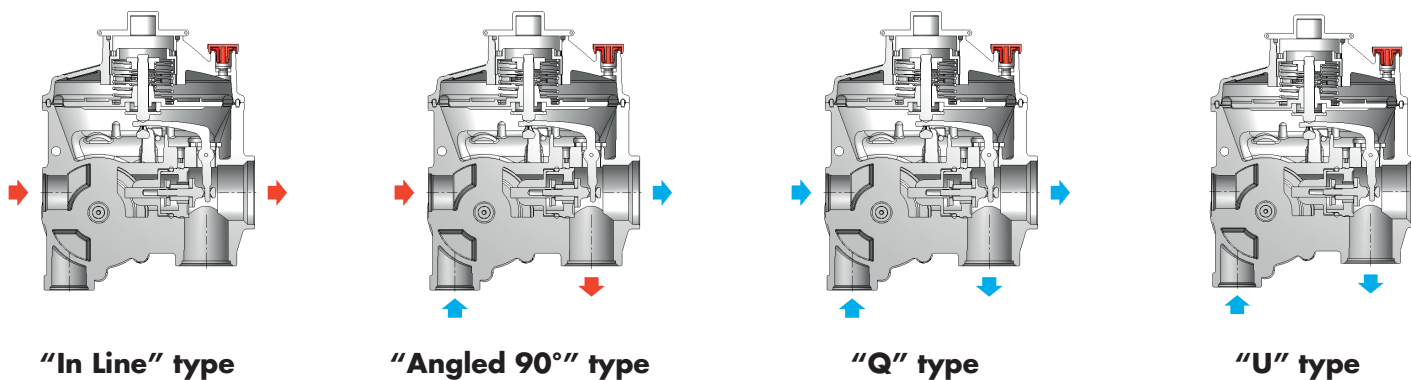
All the regulators are manufactured according to:

- **2009/142/EC** relating to "Appliances burning gaseous fuels".
- **EN 88-2** (for the classification of functional performances)
- **EN 334** (for the classification of functional performances).

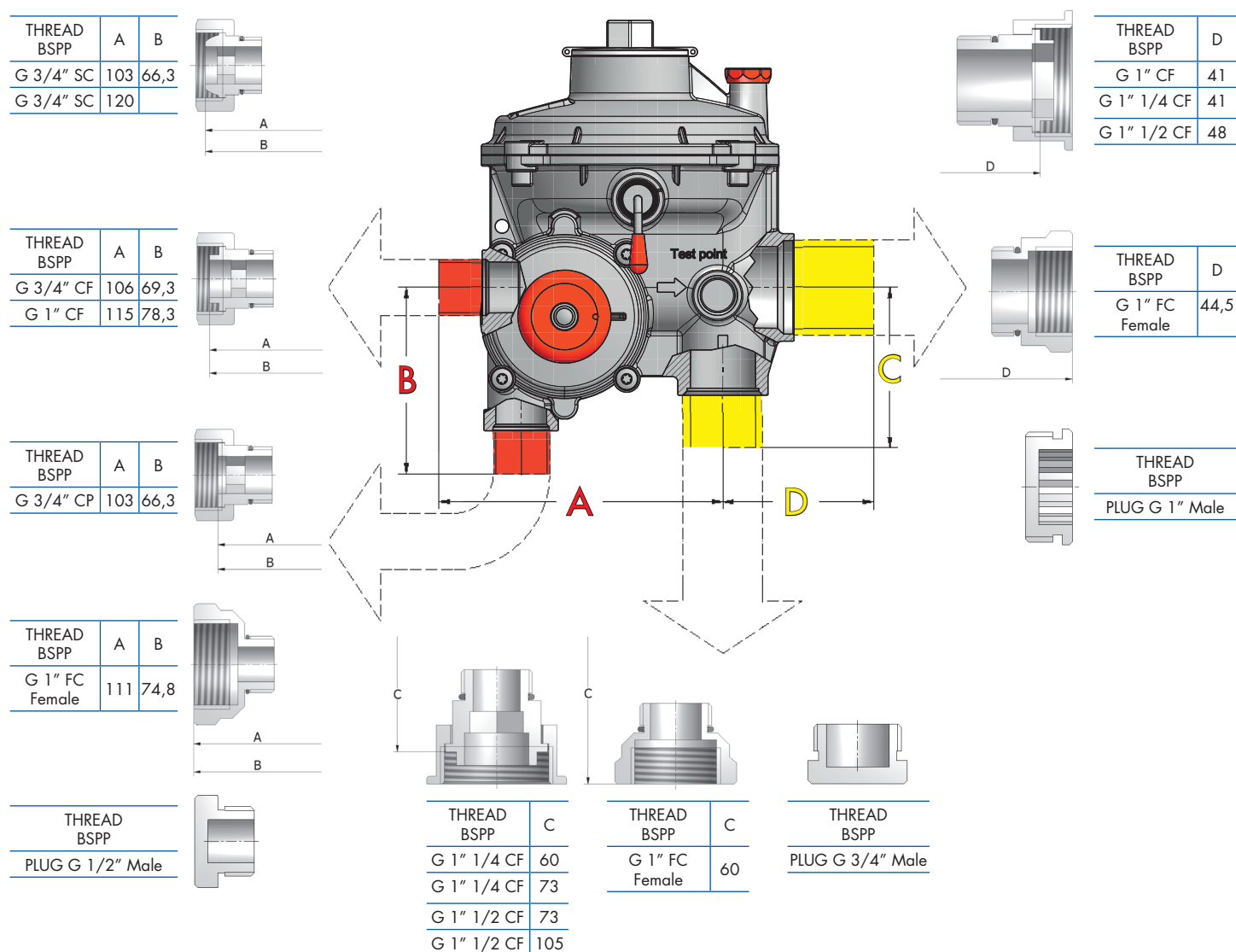


SECTIONAL WORKING PRINCIPLE

Available versions (flow direction)

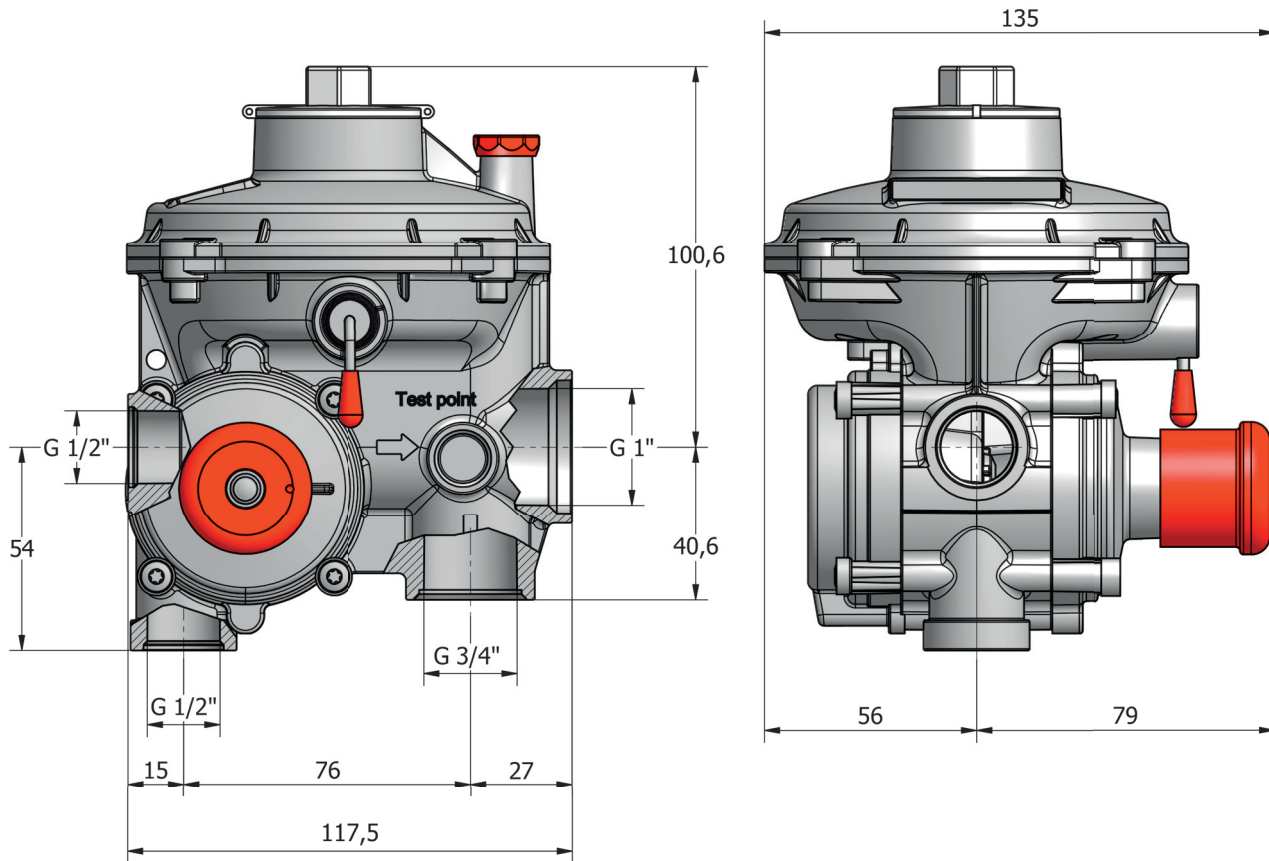


Standard connections and dimensions (mm)



Different inlet and outlet connections are available on demand.

Overall dimensions (mm)



Available options



Outlet test point



TR version for high pressure



Permanently sealed plastic cap

Technical Specifications

Standard inlet pressure:	0.5 - 5 bar
Minimum inlet pressure:	0.1 bar
Maximum inlet pressure:	6 bar
Regulator capacity:	ERG-SE 6 Stm³/h ERG-SE 10 Stm³/h ERG-SE 25 Stm³/h ERG-SE 40 Stm³/h ERG-SE 50 Stm³/h
Outlet pressure regulation range:	LP: 15 – 50 mbar MP: 50 – 150 mbar HP: 150 – 500 mbar
Accuracy class AC:	Up to AC 5
Lockup pressure SG:	Up to SG 10
Minimum ambient temperature:	- 20°C (on demand up to – 40°C)
Maximum ambient temperature:	+ 60°C
Incorporated filter	100 µ

Safety devices

Overpressure outlet slam-shut device. It intervenes in case of increase of downstream pressure.

Minimum pressure slam-shut device. It intervenes in case of decrease in the downstream pressure.

Underpressure inlet slam-shut device. It intervenes in case of lack of upstream pressure.

Second stage diaphragm bursting.

Overflow slam-shut device. It intervenes in case of increase in the flow rate included between 110% and 150 % of the nominal flow rate.

Relief valve. It allows to discharge into the atmosphere a limited outlet overpressure in case this pressure exceeds the pre-set value. The maximum relief flow rate is 400 l/h.

Standard materials

Body:	Aluminium
Cover:	Aluminium
Diaphragms:	Nitril rubber (H-NBR)
Springs:	AISI 302



Q type without connections

Product range



Rotary piston gas meters



Turbine gas meters



Gas pressure regulators



Electronic volume correctors



Diaphragm gas meters



Smart meters

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