EQA SAIC
EQUIPOS QUEMADORES AUTOMATICOS

Series 67 regulators are used to provide constant pressure for pressure controllers and other instruments that need an accurate grading for input pressure.

These self-operated regulators can be adapted to most uses of natural gas, LPG, and other non-corrosive gases.

They are widely used for instrumentation where working pressure must be kept at a constant rate.

It is important to bear in mind that all EQA type 67 pilots have a sintered filter that separates particles in flow, thus protecting the sealing system and delivering a clean flow to the main tool.

The **67 FR** pilot has a purge system before the filter which allows the draining of liquids that might get into the system.

TECHNICAL DATA					
Connections		1/4" NPT			
Working temperature		-20°C to 60°C			
		R	FR	HR	HR i
Weight		1 kg	1 kg	1.6 kg	2.4 kg
Working range	Inlet pressure Max outlet pressure Min outlet pressure	22 bar MAX 7 bar 0.5 bar	22 bar MAX 7 bar 0.5 bar	90 bar MAX 7 bar 0.5 bar	90 bar MAX 40 bar 0.5 bar
MATERIALS					
Main body		Brass	Aluminum	Stainless*	Stainless*
Bonnet		Aluminum	Aluminum	Aluminum	Stainless**
Diaphragm		NBR	NBR	NBR	NBR
Seal and obturator		NBR	NBR	NBR	NBR

*Brass option available

**Carbon steel option available

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

Pressure Regulator

EQA E67

Capacity

Series 67 pressure regulators are designed for equipment and instrumentations that require constant pressure and low flow rates.

The series 67 works with an 8.5 flow coefficient (Cv) for natural gas with a 0.6 specific gravity (SG).

To estimate the flow coefficient (Cv), use the following information:

Q= Sm3/h flow.
P1= Absolute inlet pressure.
P2= Absolute outlet pressure.
d= Specific gravity (SG).
t= Temperature in °C.

To obtain the capacity with other gases, multiply K factor by the measured flow.

GAS	SPECIFIC GRAVITY	K FACTOR
BUTANE	2	0.55
PROPANE (LPG)	1.5	0.63
CARBONIC ANHYDRIDE	1.5	0.63
OXYGEN	1.1	0.74
AIR	1	0.77
NITROGEN	0.97	0.79
ACETYLENE	0.9	0.82
AMMONIA	0.59	1.02
HYDROGEN	0.07	3

Critical regime P1 ≥ 2P2

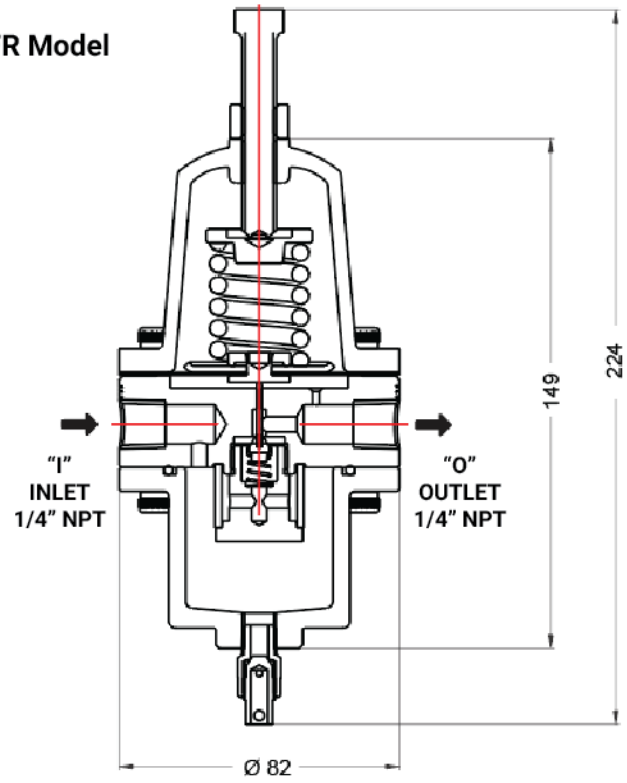
$$Cg = \frac{Q}{6{,}97 \times P_1} \times \sqrt{d \times (273.15+t)}$$

Subcritical regime P1 < 2P2

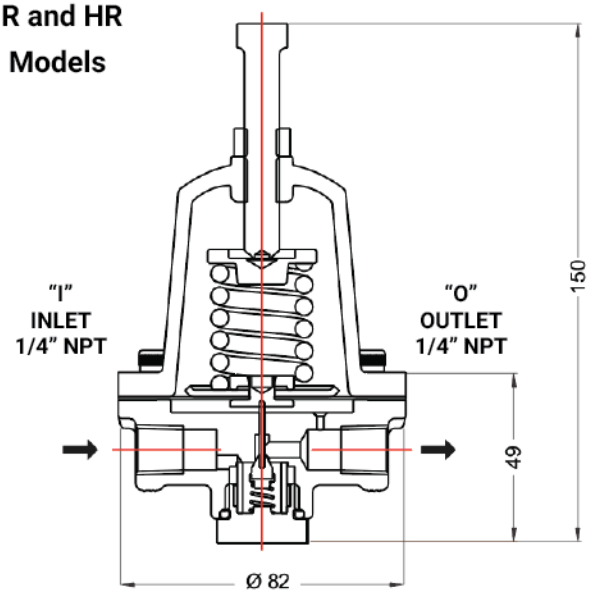
$$Cg = \frac{Q}{13.94} \times \sqrt{\frac{d \times (273.15+t)}{P_2 \times (P_1-P_2)}}$$

Dimensions

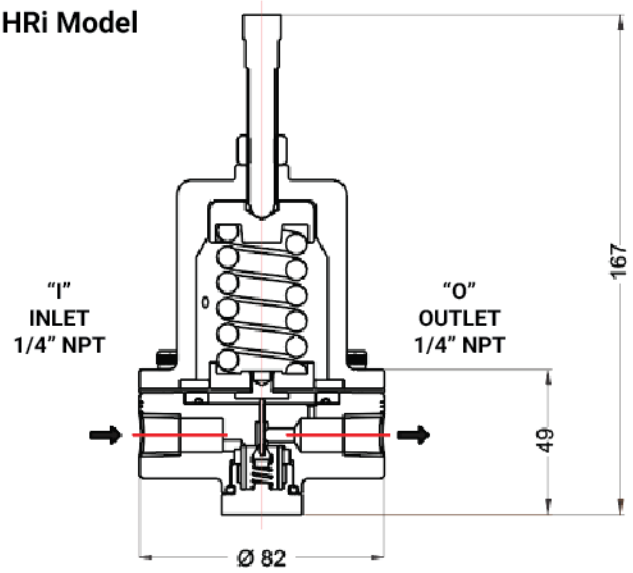
FR Model



R and HR Models



HRi Model



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