



PRESSURE REGULATORS EQA S-147

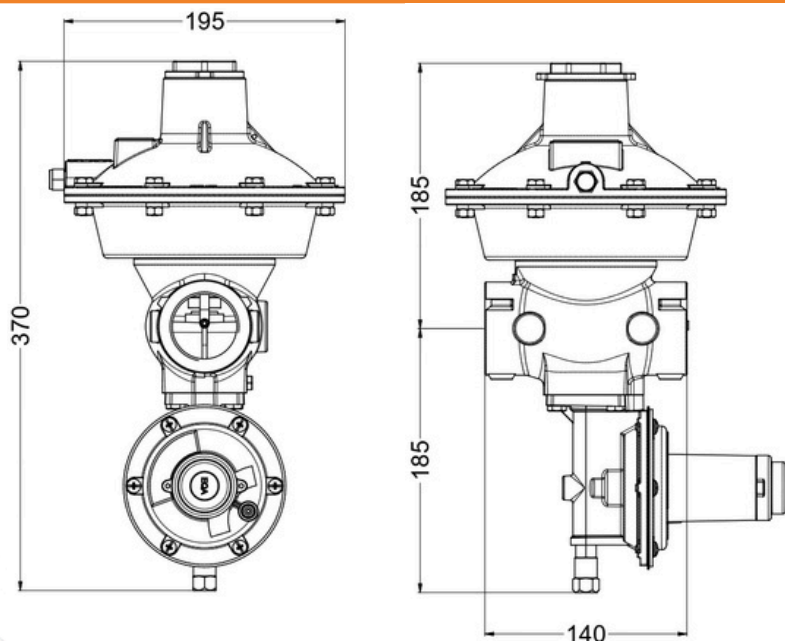
Specially designed for use in installations with inlet pressures ranging from 0.5 to 4 bar and a regulated pressure of 19 mbar $\pm$ 7.5%.

Highly sensitive and stable output pressure, even with significant variations in inlet pressure, the EQA S-147 regulator features an easily accessible internal filter and protection against excess and decrease in regulated output pressure, by means of a manually resettable locking system.

TECHNICAL DATA

Gas Type	Natural Gas
Inlet Pressure	0.5 to 4 bar
Outlet Pressure	19 mbar $\pm$ 7.5%
Nominal Capacity	40 m ³ /hour
	50 m ³ /hour
	75 m ³ /hour
	100 m ³ /hour
High Pressure Safety	Lock at 50 mbar
Low Pressure Safety	Lock at 13 mbar $\pm$ 10%
Vent Pressure	35 $\leq$ PS $\leq$ 50 mbar
Inlet Connection Diameter	1 1/2" BSP (Female)
Outlet Connecton Diameter	1 1/2" BSP (Female)
Torsional moment at tightening	12,4 Kgm
Norm	NAG 235

GENERAL DIMENSIONS



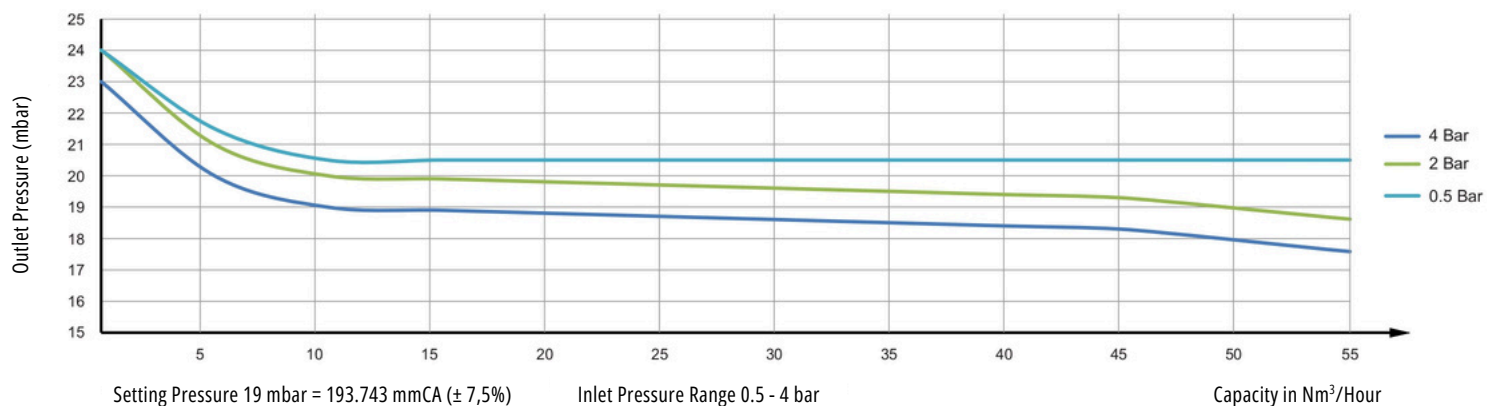
**APROBADO
NORMA NAG 235**



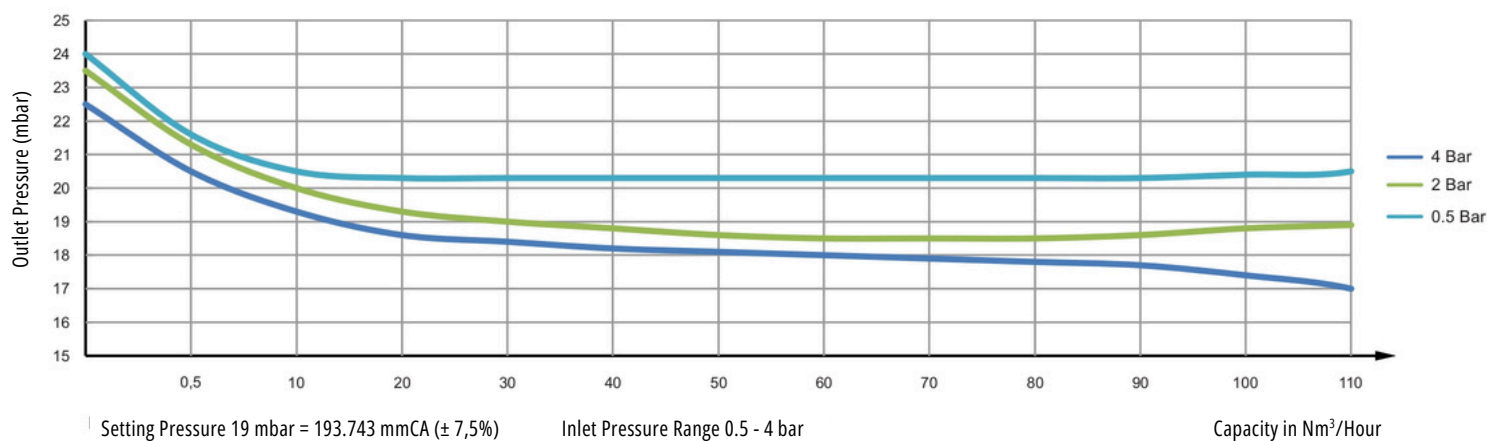


VARIATION IN OUTLET PRESSURE IN RELATION TO NOMINAL CAPACITY

S-147/4/5 Model



S-147/7/10 Models





FLOW RATE CONVERSION

TO OBTAIN	CUBIC FOOT PER HOUR	CUBIC METER PER HOUR	CUBIC FOOT PER DAY	CUBIC METER PER DAY
MULTIPLY	(Scf/h)	(Scm/h)	(Scf/d)	(Scm/d)
Cubic foot per hour	1	0.028	24	0.672
Cubic meter per hour (15°C, 1.01325 bara)	35.71	1	857.04	24
Cubic foot per day	0.0417	0.0012	1	0.028
Cubic meter per day	1.4879	0.0417	35.71	1

UNIT CONVERSION

TO OBTAIN	POUNDS PER SQUARE INCH	INCHES OF WATER COLUMN W	MILLIMETERS OF WATER COLUMN W	INCHES OF MERCURY	MILLIMETERS OF MERCURY	BAR	MILIBAR	KILOGRAMS PER SQUARE CENTIMETER	KILOPASCALS
MULTIPLY	psi	in H2O	mm H2O	in Hg	mm Hg	bar	mbar	Kg/cm ²	Kpa
psi	1	27.68	703.1	2.036	51.7	0.06895	68.95	0.0703	6.895
in H2O	0.0361	1	25.4	0.07355	1.87	0.002491	2.491	0.00254	0.22491
mm H2O	0.0014	0.0394	1	0.00289	0.07355	0.000098	0.0981	0.0001	0.00981
in Hg	0.4911	13.6	345.4	1	25.4	0.03386	33.86	0.03453	3.386
mm Hg	0.01934	0.535	13.6	0.03937	1	0.001333	1.333	0.00136	0.1333
bar	14.5	401.5	10198.1	29.53	750.06	1	1000	1.02	100
mbar	0.0145	0.4015	10.1981	0.02953	0.7501	0.001	1	0.00102	0.1
Kg/cm ²	14.22	393.7	10000	28.96	735.58	0.9807	980.7	1	98.07
Kpa	0.145	4.015	101.98	0.2953	7.501	0.01	10	0.0102	1



INSTALLING RECOMENDATIONS

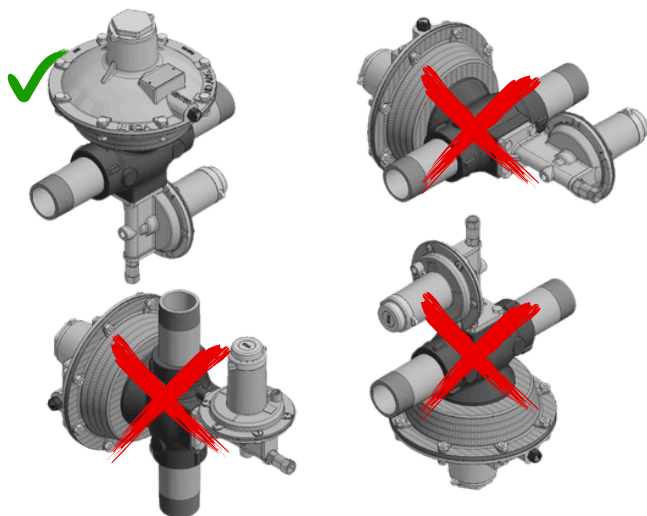
It is very important to pay attention to the position of the regulator vent, as it also acts as a breather. If it becomes blocked, it could be dangerous. Therefore, it must be protected from water, dust, or other hazardous elements.

If the regulator is to be installed in an underground tank, the vent must be raised with a pipe above the possible water level. Any gas leak outside the valve indicates that the service must be shut off and technical service contacted. Only a qualified technician should install or repair the regulator.

Before installing the regulator, inspect it for any damage that may have occurred during transport. If any of the protective plastic caps are missing, check that no foreign objects have entered through the connections. Vent the supply pipe several times until no particles come out. (This is the cause of most start-up problems). It must also be protected from possible impact caused by vehicle traffic. Periodically check the vent hole to make sure it is not blocked.

Always use sealants in accordance with NAG 214, removing any excess adhesive that could obstruct the internal inlet and/or filter.

INSTALLING POSITION



COMMISSIONING

It is advisable to carry out the commissioning process using pressure gauges suitable for the inlet and outlet pressures of the regulator to monitor this procedure.

- 1- Slowly open the inlet shut-off valve.
- 2- Check the pressures.
- 3- Slowly open the outlet shut-off valve.
- 4- Check all connections for possible leaks.

MAINTENANCE



Before disassembling the regulator, shut off the gas supply and release the accumulated pressure.

Due to the normal wear that may occur in any gas regulator, some components must be periodically inspected and replaced if necessary. The inspection frequency depends on the severity of service or the requirements of the applicable regulations.

ADJUSTMENT

If it is necessary to adjust the regulator's outlet pressure, this can be done using the nut that compresses the spring. Turning it clockwise increases the pressure, while turning it counterclockwise decreases it.



When increasing the pressure, consider the possible presence of safety elements such as relief valves, shut-off mechanisms, or pressure switches that will activate if their set pressure is exceeded. Additionally, the identification nameplate should be modified at the factory to comply with regulations and prevent future confusion.

RESTORATION IN CASE OF BLOCKAGE

It activates when the regulated pressure is less than 11 mmCA and greater than 500 mmCA (these values are adjusted by means of a spring whose pressure is regulated externally). To reset the equipment, first check that all pressure after the regulator is zero. Then pull the reset lever to allow gas to flow until the pressure in all pipes downstream of the regulator has stabilized.

SPARE PARTS

Always request them according to the part number from the General Cut and mention the regulator's nameplate data.

WARRANTY

This product has a limited warranty for a period of 2 years. Please refer to the warranty conditions on our website for details.



At EQA, we strive to minimize our environmental impact through sustainable and responsible practices. Therefore, we encourage you to join our commitment and, at the end of the product's lifecycle, adhere to the current Municipal, Provincial, and National regulations regarding the classification, recycling, destruction, or disposal of the product, spare parts, non-reusable parts, and packaging. By doing so, we prevent environmental damage and promote reuse and recycling whenever possible. Thank you for your commitment and efforts in joining these actions.