



Model AG Single Unit Gas Regulator

Realised in accordance with the UNI-EN88-1:2008 Norms 2009/142/EC Directive (Ex-90/396/EEC)



REGULATOR WITH FILTER

Code	Model	Diameter INCHES	DN
3.032.2011	AG212	1/2"	DN15
3.032.2012	AG213	3/4"	DN20
3.032.2013	AG214	1"	DN25

REGULATOR WITHOUT FILTER

Code	Model	Diameter INCHES	DN
3.032.2014	AG312	1/2"	DN15
3.032.2015	AG313	3/4"	DN20
3.032.2016	AG314	1"	DN25

GENERAL DESCRIPTION

AG gas regulators can be installed in systems with automatic gas burners and in industrial gas distribution systems.

AG gas regulators have three membranes fitted inside them: a operating membrane (7), a compensation membrane (6) and a safety membrane (5) (refer to Fig. 1).

A breather pipe and external discharge outlet is not necessary because the safety membrane avoids a gas leak into the environment more than 30 dm³/h, point 3.3.2. of the UNI-EN88-1 Norms.

MARKING

Depending on which model, AG regulators are marked by laser with their technical characteristics.

CE	Class A	UNI EN 88/1
	Group 2	Body: 1"
	Filter: No	PE max: 0.5 bar
	PS: 1 bar	PD: 10-27 mbar
	Serial number: 20-12-201100000	

SPRING SETTING mbar

Spring model	ATTACHMENTS 1/2" - 3/4" - 1" ISO228	mbar
WHITE		5 ÷ 14
YELLOW		6 ÷ 22
NEUTRAL		10 ÷ 27
RED		28 ÷ 70
BLACK		60 ÷ 130

PRESSURE SETTING

Unscrew the upper cap to gain access to the spring compressor (1) (Fig.1). The outlet pressure is regulated by rotating the spring compressor (2) (Fig.1).

Using a 10mm Allen key, turn the spring compressor (2) in a clockwise direction to increase the pressure and in an anticlockwise direction to reduce the pressure.

After making the adjustment, replace the upper cap (1).

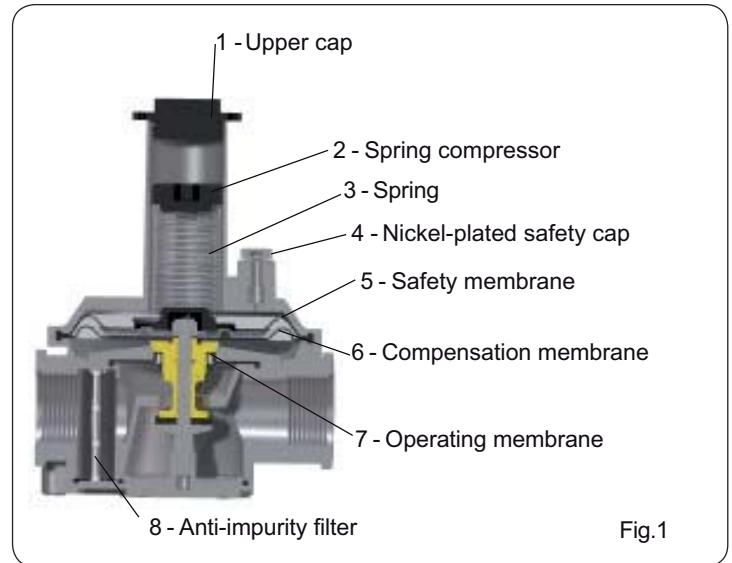


Fig.1

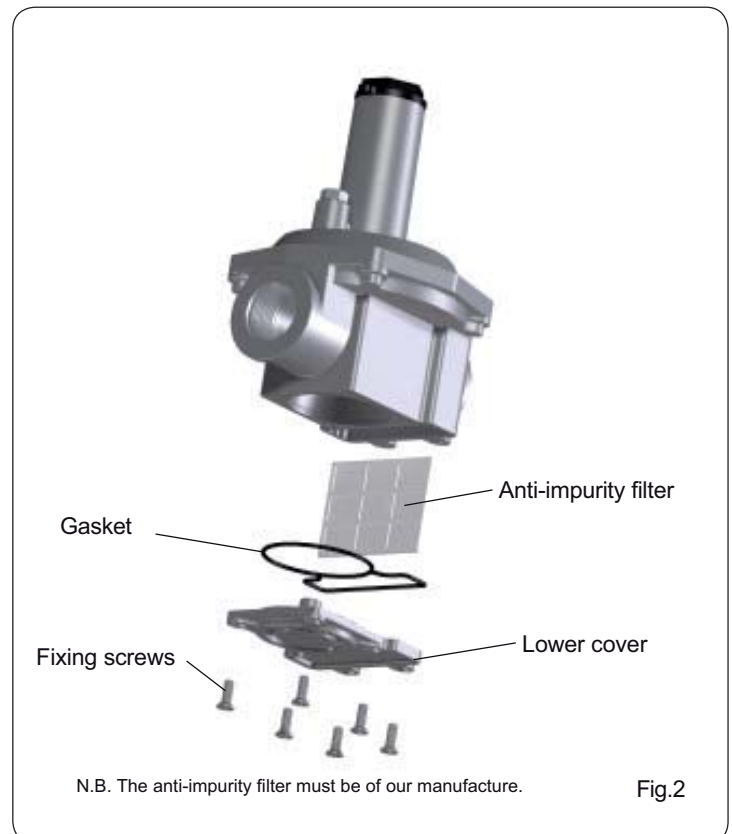
MAINTENANCE

AG regulators do not require any maintenance.

The substitution of the anti-impurity filter positioned at the base of the AG regulator (Fig. 2) is recommended for models fitted with a filter (AG212, AG213 and AG214).

- Unscrew the six screws and remove the lower cover.
- Extract the anti-impurity filter and substitute it with a new filter.
- Check that the base gasket is integral then clean and replace the lower cover.
- Replace the six fixing screws.

A revision with the relative testing in the factory is recommended if there is a fault.

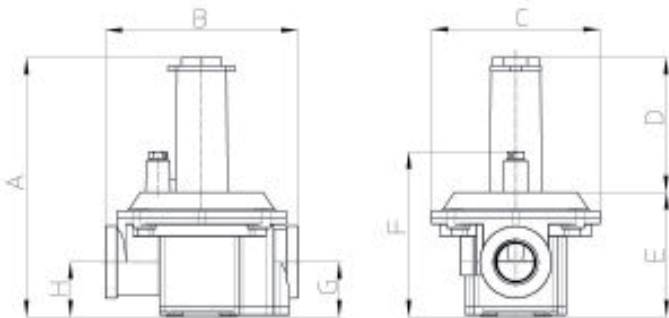


N.B. The anti-impurity filter must be of our manufacture.

Fig.2

DIMENSIONS (mm) and WEIGHT (kgs)

Model	A	B	C	D	E	F	G	H	WEIGHT Kgs
AG 212/312	154	115	100	76	78	98	32.5	32.5	0.688
AG 213/313	154	115	100	76	78	98	32.5	32.5	0.654
AG 214/314	154	115	100	76	78	98	32.5	32.5	0.628



INSTALLATION AND POSITIONING

Carefully read the instructions before utilisation.

This device must be installed in accordance with the laws in force.

The AG regulator must be installed in a horizontal position at a maximum angle of 90° and with the arrow pressed into the body pointing towards the heating unit.

It must be positioned near to the regulation organs and preferably outside the environment in which the heating unit is present.

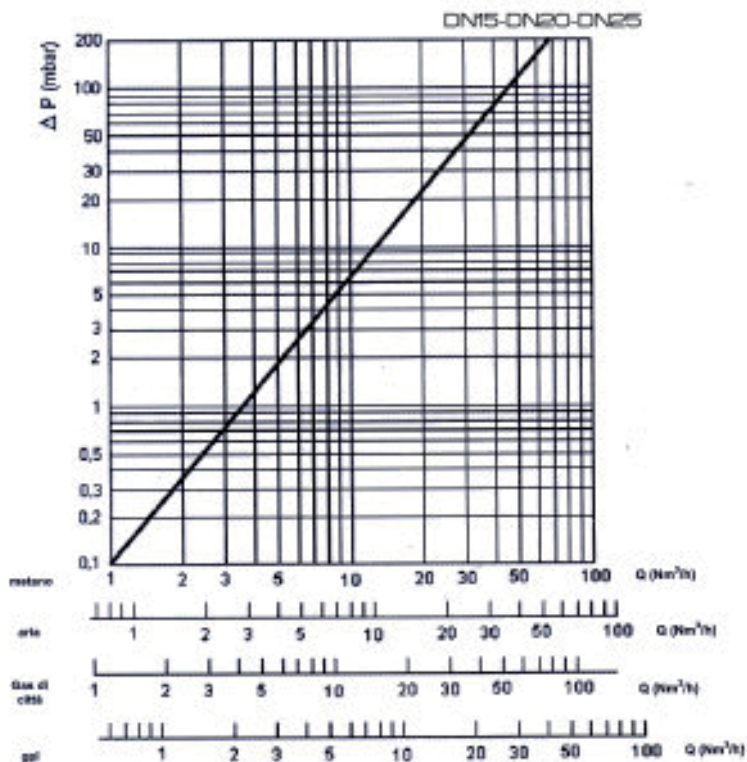
N.B. Install the regulator away from atmospheric agents.



MAXIMUM GAS FLOW CAPACITY

MODEL	QMAX (Nm ³ /h)
1/2" - AG212/312	≈21
3/4" - AG213/313	≈33
1" - AG214/314	≈55

DIAGRAM OF THE FRICTION LOSS



DENSITY

TYPE OF GAS	DV
Natural gas	0.64
Air	1.00
L.P.G	1.57
City gas	0.47

TECHNICAL CHARACTERISTICS

Max. Pressure:	0.5 bar (50 kPa)
Inlet pressure:	From 5 mbar to 500 mbar
Outlet pressure:	10 ÷ 27 mbar (standard spring)
Operating temperature:	-15°C to +60°C
Class:	B
Group:	2
Filtering:	50µm
Combustible gases:	Methane natural gas, Air, L.P.G. and City gas
Materials in contact with the gases:	Die cast aluminium, steel and membranes in NBR certified DVGW EN 549
Position and installation:	With a maximum angulation of 90°
Conformity:	90/396/EEC Directive (GAS)
Attachments and pressure sockets:	Only if requested in the order
Threaded attachments:	FFUNI-ISO 228

Dis. 8034061 code 2.710.2545



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