



## MG 90/180

GAS PRESSURE REGULATORS

# MG 90/180

## Description:

MG series pressure regulators are used on the gas line to reduce incoming pressure to the desired output pressure. They are suitable for both commercial and residential use where they can be installed directly on gas meters with high operational reliability and accurate precision on outlet pressure.

The regulator can maintain an output pressure of 20 mbar +/- 10% for inlet pressure range from 25 to 2000 mbar. The output pressure can be supplied between 18 and 150 mbar, according to the specifications.

Three models are available according to the inlet pressure:

- From 25 mbar to 1000 mbar
- From 1000 mbar to 1500 mbar
- From 1500 mbar to 2000 mbar

As option the regulator can have an internal safety valve (UPSO, Under Pressure Shut OFF) that can be supplied with automatic or manual reset. The safety valve is supposed to close the gas flow when the pressure drops below 15 mbar, either due to an excessive gas consumption or if the input pressure drops.



Both MG 90 and MG 180 models can be provided with either:

- No UPSO
- UPSO with manual reset (pull to reset)
- UPSO with automatic reset

## "ANGLE TYPE" gas pressure regulators MG 90



MG 90

With/without automatic UPSO



MG 90-M

With UPSO - manual reset

## "IN LINE TYPE" gas pressure regulators MG 180



MG 180

With/without automatic UPSO



MG 180-M

With UPSO - manual reset

## Gas pressure regulator MG adjustable version



**MG 180-A in line**  
With/without automatic UPSO

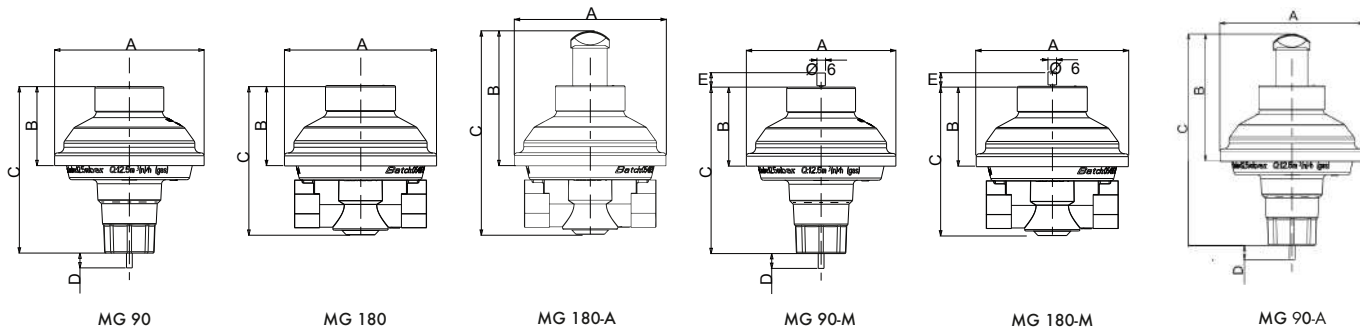


**MG 90-A angle type**  
With/without automatic UPSO

### Technical features

Body	Die cast aluminium
Cover	Steel
Diaphragm and value pads	NBR
Springs	Galvanized steel
Body size	1/2" - 3/4"
Connections	Threaded Rp EN 10226 (ISO 7/1) or NPT Flanged UNI (PN) - ANSI (Different fittings on customer request)
Max inlet pressure	up to 2000 mbar
Outlet pressure	20 ÷ 150 mbar
Accuracy class	AC% 10
Design temperature	TS -20 ÷ +60 °C
Ambient temperature	-20 ÷ +60 °C
Design Pressure	PS 2 bar
Filter	Stainless steel - on request different filtration grade
Acceptable gases	Natural gas, town gas, lpg, nitrogen, air, any non-corrosive gas
Safety devices (Option) automatic UPSO or manual reset	UPSO
Reference standards	EN 88-1
Capacity	According to inlet pressure and outlet pressure: from 5 ÷ 30 m <sup>3</sup> /h

### Dimensions



### Dimensions (mm)

Models	A	B	C	D	E
MG 90	106	56	118	10,5	-
MG 180	106	56	104	-	-
MG 180-A	106	94	142	-	-
MG 90-M	106	56	118	10,5	10
MG 180-M	106	56	104	-	10
MG 90-M	106	94	156	10,5	-

## Product range

Rotary piston gas meters

Turbine gas meters

Gas pressure regulators

Electronic volume correctors

Diaphragm gas meters

Smart meters

**metrix**italia

**Metrix Italia s.r.l.**

Via Nona Strada, 53 - 35129 Padova (Italy)

Tel: +39 049 5349377 - Fax: +39 049 8076008

[www.metrixitalia.it](http://www.metrixitalia.it) - E-mail: [info@metrixitalia.it](mailto:info@metrixitalia.it)