MR PN 10

CE

Gas Pressure Regulator
Inlet pressure 10 bar
Nominal diameter 1" and 2"

with integrated safety shut-off valve and integrated limited capacity relief valve

EC type test according Pressure Equipment Directive 97/23/EC together with DIN EN 334, DIN 3381

CE-0085BM0201

Application

- Pressure reduction for
  - district distribution
  - industrial uses

Technical data

- Inlet pressure range p_e 200 mbar to 10 bar
- Outlet pressure range p_{as} 20 to 500 mbar (different setting springs necessary)
- Minimum differential pressure Δp_{min} 50 mbar
- Installation of the diaphragm housing horizontal

Pressure set ranges and accuracy classes see table below.

Brief description

The gas pressure regulator MR 10 bar series is spring loaded and fully inlet pressure balanced. It opens the range of our MR 6 bar up to 10 bar inlet pressure, which is known for excellent regulation and lock-up behaviour and easy maintenance.

The MR 10 bar series is of use for industrial application and small stations.

The unit is to install direct in the line. An additional sensing line is necessary.

Ordering example

Gas governor MR50 SF10 or MR25 SF10 with over & under pressure shut-off valve and limited capacity relief valve

- Inlet pressure ... to ... mbar
- Outlet pressure ... mbar
- Over pressure shut-off set ... mbar
- Under pressure shut-off set ... mbar
- Relief valve set ... mbar

Main features

- **Fully inlet pressure balanced**
- **External impulse**
- **Inlet pressure resistant up to 16 bar**
- **Spring loaded**
- **Excellent outlet pressure control**
- **Flange connection PN 16**
- **Integrated safety shut-off valve**
- **Integrated limited capacity relief valve for over or over and under pressure shut-off**
- **Operation temperatures -20°C to +60°C**
- **Integrated filter**

Options:

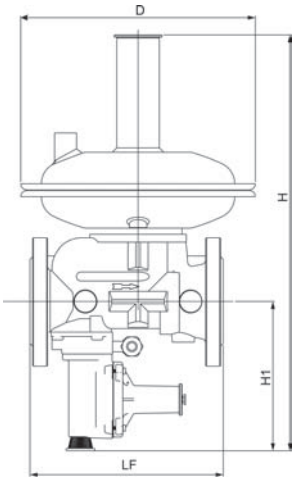
- **Internal impulse can be installed up to Q = 300 m³/h**
- **SSV remote control**
- **Versions with blocked relief valve**

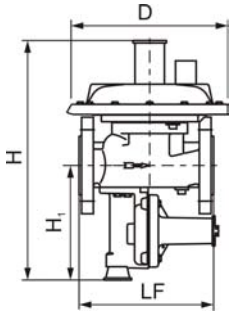
Pressure ranges & accuracy classes for outlet pressure and safety devices

Regulator			Safety shut-off valve				Relief valve	
control pressure set range	control accuracy class	lock up pressure class	over pressure set range	over pressure accuracy class	under pressure set range	under pressure accuracy class	set range	accuracy class
[mbar]	%	%	[mbar]	%	[mbar]	%	[mbar]	%
p_{as} 20 – 50 p_{as} 50 – 150 p_{as} 150 – 500	AC 10 AC 10 AC 5	SG 30 SG 20 SG 10	p_{so} 45 - 900	$AG_o \pm 10$	p_{su} 6 – 13 p_{su}>13 – 150	AG_u 30 AG_u 15	MR25: 20 – 230 MR50: 20 – 120 above outlet pressure p_{as}	± 10

MR Series 10 bar

Technical data & dimensions





Horizontal installation of the gas regulator

	Capacities natural gas [stcm/h]			Connections		Dimensions [mm]				Weight
Type	at Δp 50 mbar	q_{max1}	q_{max3}	Line	Flanges	LF	H1	H	D	in kg approx.
MR25 (S)F10	15	30	400	DN 25	Flange PN 16	160	276	134	186	6
MR50 (S)F10	40	100	1200	DN 50	Flange PN 16	220	480	180	262	13

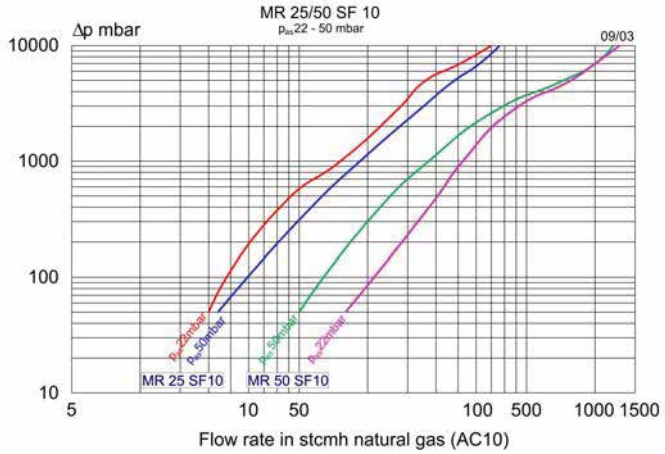
q_{max1} = q_{pemin} maximum flow rate at minimum differential pressure Δp_{min}

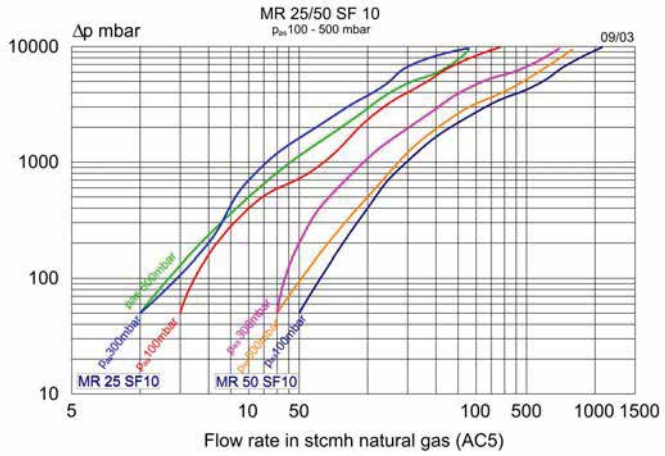
q_{max3} = q_{pemax} maximum flow rate at maximum differential pressure Δp_{max}

Flow rates ±20%

Flange: EN 1092-2

Maximum capacity *(with external impulse sensing)*





MR PN10 EN02

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Subject to change without prior notice