

MR 25 PN 1

Gas pressure regulator
inlet pressure 1 bar
DN 25

Applications

Pressure reducing for

- utilisation
- domestic application

Brief information

The MR 25 PN 1 gas pressure regulators are spring-loaded and fully inlet pressure balanced. The devices have a standard integrated safety shut-off valve offering over pressure slam shut and/or under pressure slam shut and an integrated limited capacity relief valve. They are members of the MR regulator family, which is known for excellent regulation and lock-up behaviour as well as easy maintenance. The MR series is used in industrial or commercial applications and small stations. The regulators are available in flanged and threaded versions.

The units are DVGW approved according to DIN 33822 as well as to Pressure Equipment Directive 97/23/EC (PED).

Registration numbers: NG-4301CL0338 and CE-0085BQ5711

Technical data

- Inlet pressure range p_U 24 mbar to 1 bar
- Design with low pressure cut-off: p_U 26 mbar to 1 bar
- Outlet pressure range p_{ds} 20 to 300 mbar
- Design with low pressure cut-off p_{ds} 22 to 30 mbar (different setting springs necessary)
- Minimum differential pressure Δp_{min} 4 mbar
- Omnidirectional installation horizontal/vertical

Pressure ranges & accuracy classes for outlet pressure and safety devices

Regulator			Safety shut-off valve			
Set range	Accuracy class	Lock up pressure class	Over pressure set range	Over pressure accuracy group	Under pressure set range	Under pressure accuracy group
[mbar]	%	%	[mbar]	%	[mbar]	%
p_{ds} 20 – 30	AC 10	SG 30	p_{dso} 45 – 470	AG _O 10	p_{dsu} 6 – 13	AG _U 30
p_{ds} 30 – 100	AC 10	SG 20			p_{dsu} 13 – 150	AG _U 10
p_{ds} 100 – 300	AC 5	SG 10				

Ordering example

Gas pressure regulator MR 25 MF with over pressure shut-off valve and integrated low pressure cut-off, flange connection.

- Inlet pressure ... to ... mbar
- Outlet pressure ... mbar
- Over pressure shut-off set ... mbar
- Orientation

Design

MR ... Standard design with SSV O (over pressure shut-off valve)

MR ...S Design with SSV O/U (over and under pressure shut-off valve)

MR ...M Design with low-pressure cut-off and SSV O (over pressure shut-off valve)



Main features

- Fully inlet pressure balanced
- Diameter 25 mm
- Inlet pressure resistant up to 16 bar
- Excellent outlet pressure control
- Minimum differential pressure 4 mbar
- Integrated safety shut-off valve (SSV) for over or over and under pressure shut-off
- Sealable test hole
- Operation temperature -20 °C to +60 °C
- Fire safe according to DIN 33822
- Safety diaphragm
- Omnidirectional installation horizontal/vertical
- Tamper proof screwed
- Housing cathodic immersion coated
- Sieve in inlet

Options

- Low pressure cut-off
- Flood resistant

Technical data and dimensions

Type	Capacities natural gas [stcm/h]			Line	Connection		LG	LF	Dimensions [mm]				Weight [Kg]
	at Δp 4 mbar	Q _{max, pu min} [stcm/h]	Q _{max, pu max} [stcm/h]		Flange	Thread			LG/LF	H	H ₁	D	
MR 25 G	10	10	80	DN 25	-	G 1½	140	-	-	284	134	185	approx. 3.4
MR 25 F	10	10	80	DN 25	PN 16	-	-	160	-	284	134	185	approx. 5.1
MR 25 F-G	10	10	80	DN 25	PN 16	G 1½	-	-	140	284	134	185	approx. 3.8

$Q_{\max, pu \min}$ = maximum flow rate at minimum differential pressure Δp_{\min}

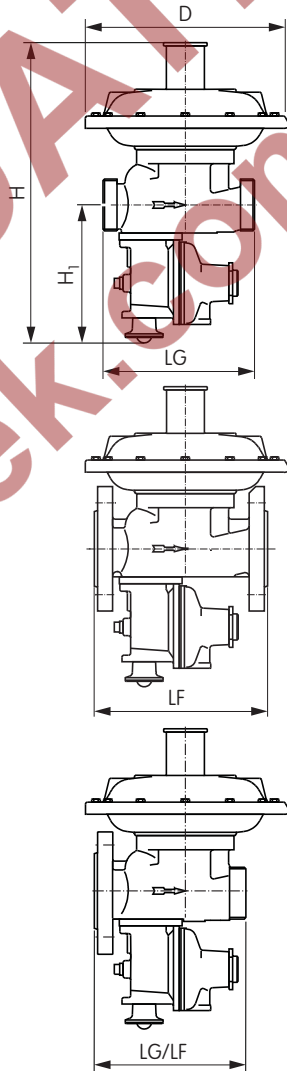
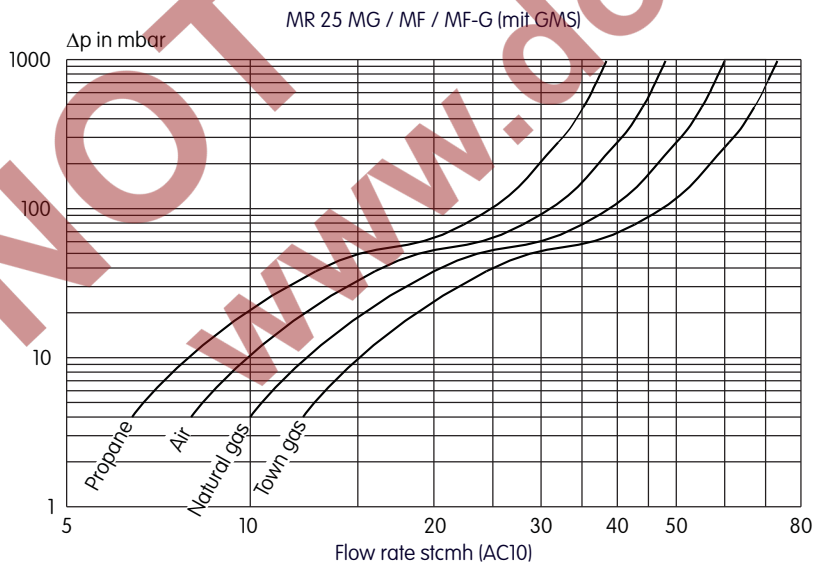
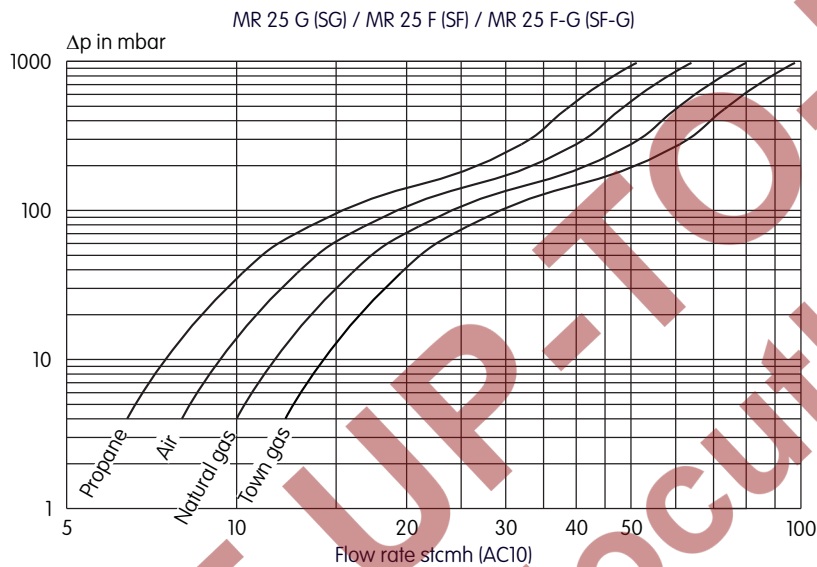
$Q_{\max, pu \max}$ = maximum flow rate at maximum differential pressure Δp_{\max}

Flow rates $\pm 20\%$

Flange: EN 1092-2

Thread ISO 228-1

Maximum capacity



Horizontal installation of the gas regulator

These regulators are suitable for use with previously filtered, non-corrosive gases.

Your contacts



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