

HONEYWELL ELSTER 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.



Main Features

- Full inlet pressure balanced
- Sizes 25mm
- 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
- Operational temperature $-20\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$
- Fire safe according to DIN 33822
- Safety diaphragm
- Omnidirectional installation horizontal/ vertical
- Tamper proof screws
- Housing cathodic immersion coated
- Sieve in inlet

Options

- Low pressure cut-off
- Flood resistant

Pressure ranges & accuracy classes for outlet pressure & 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, flanged 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 & SSV O (over pressure shut-off valve).

MR 25 PN 1

Inlet Pressure 1 bar, DN25

Technical data and dimensions

Type	Capacities natural gas (scmh)			Connections			Dimensions (mm)						Weight (kg) approx
	at Δp 4 mbar	$Q_{\max, pu \min}$	$Q_{\max, pu \max}$	Line	Flange	Thread	LG	LF	LG/LF	H	H1	D	
MR 25 G	10	10	80	DN 25	-	G1½	140	-	-	284	134	185	3.4
MR 25 F	10	10	80	DN 25	PN 16	-	-	160	-	284	134	185	5.1
MR 25 F-G	10	10	80	DN 25	PN 16	G1½	-	-	140	284	134	185	3.8

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

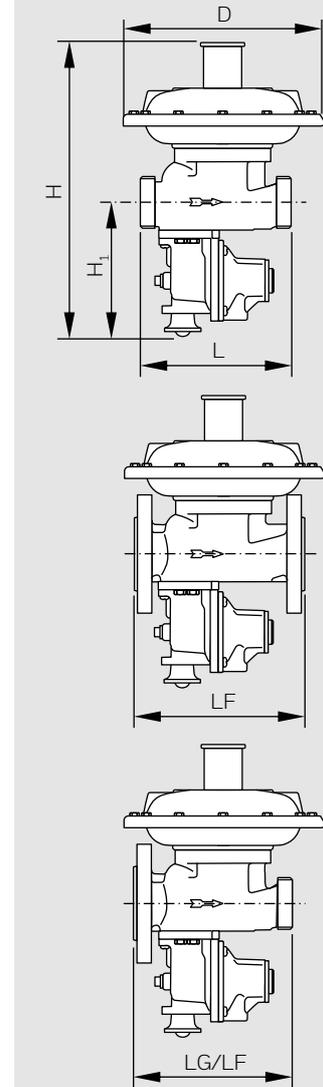
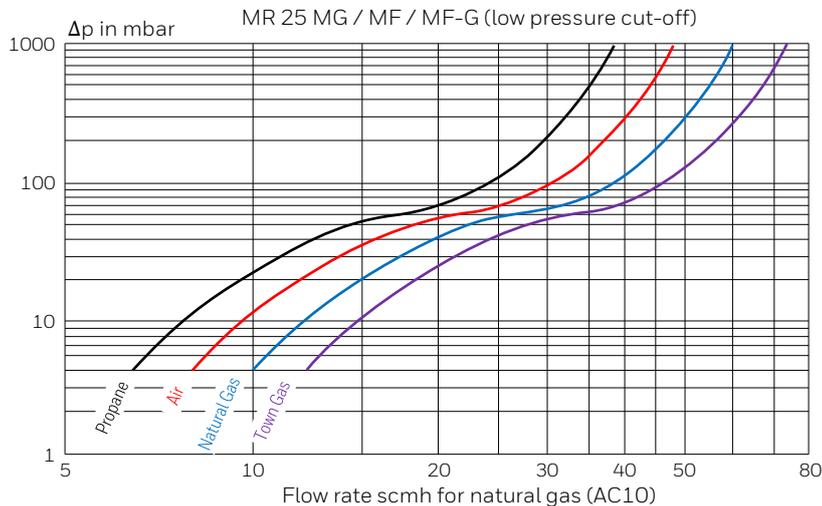
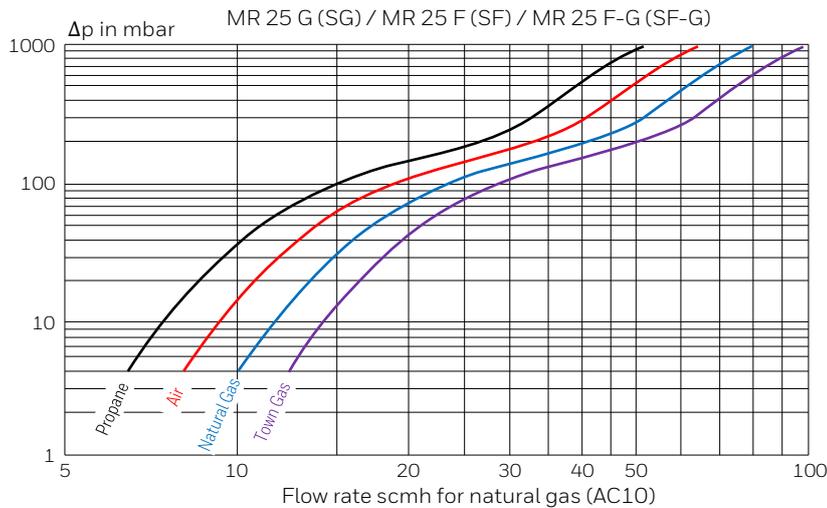
$Q_{\max, pu \max}$ maximum flow rate at maximum differential pressure Δp_{\max}

Flow rates $\pm 20\%$

Flange: EN 1092-2

Thread ISO 228-1

Maximum Capacity



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

Your Contacts

www.smartenergy.honeywell.com

Honeywell | Smart Energy

Germany
 Elster GmbH
 Steinern St. 19 – 21
 55252 Mainz -Kastel
 T +49 6134 605 0
gas-mainz-se@honeywell.com