

Name plate gas pressure regulators – MR, M2R, HR series

Did you know...




Since the publication of EN 334 and EN 14382 different designations have found their way into the standard specifications for gas pressure regulators and safety devices.

These terms from the European Standards EN 334 (Gas pressure regulators), EN 14382 (Safety shut-off devices) and the Pressure Equipment Directive have also found their way into many other European Standards as well as National Standards and Codes of Practice within the European member states.



Some of the terms defined in these Standards can of course once again be found on our name plates for the MR, M2R and HR series. So, to refresh your memory, here is a list of the name plate descriptions and a comparison of the old and new terms:

New	Old	Description
PS		maximum allowable pressure
Q_{max}		maximum capacity in m ³ /h (referred to natural gas)
p_{ds}	(p_{os})	set point of outlet pressure in mbar
p_u		inlet pressure in mbar
$p_{u.min}$	($p_{e.min}$)	minimum allowable inlet pressure in mbar
$p_{u.max}$	($p_{e.max}$)	maximum allowable inlet pressure in mbar
AC	(RG)	Accuracy Class (generally +/- 10% of p_{ds})
SG		Lock up pressure class (generally + 20/30% of p_{ds})
W_h		set range of outlet pressure p_{ds}
V-Ø	Sitz-Ø	Valve diameter
p_{so}		over pressure set point of SSV (generally in mbar)
p_{su}		under pressure set point of SSV (generally in mbar)
p_{sbv}		set point of relief valve (generally in mbar)
AG		Accuracy Group of SSV (e.g. +/- 10% of p_{so} or p_{su})
Pos.	Einbaul.	installation position (H/V)
Reg.		Registration number of approval certificate
S.N.	Fabr.-Nr.	Serial Number
Bj.		year of manufacture
Natural Gas		

 Typ: M2R1 25 MG				 000000 GV Muster GmbH	
S.N. 33877494	GMS zt				
PS: 1 bar	P_u : pds+4 - 1.000 mbar	P_{so} : 80 mbar AG 10	B_j : 04.2009		
W_h : 20-50 mbar	P_{ds} : 23 mbar AC 10/SG 20	P_{su} : mbar AG 30	Reg: AT0027		
V-Ø: 8,7/13 mm	Q_{max} : 25 m ³ /h Natural Gas	P_{sbv} : mbar	Pos. H/V		

The existing initials RG for "Regulating Group" have just been changed to AC for the conventional European "Accuracy Class". Instead of p_o , p_o , p_2 for outlet pressure, today p_d is used for "pressure downstream" and p_e , p_i , p_1 for inlet pressure have become p_u for "pressure upstream".

In the course of internationalisation various terms, such as the valve seat diameter and the installation position, among others, will likewise be changed in the future on the name plates – natural gas (NG) is internationally recognised as standing for natural gas. The medium specification is the reference value for the flow capacity.

The serial number (S.N.) in the top left section of the name plate can also be found directly above this in the form of a barcode. The barcode may be used to register the units. Opposite this, in the top right section of the name plate an ownership I.D. for the utility company can be applied, comprising barcode, clear number and name. A code can cover up to 14 digits on the name plate. For longer barcodes, we use an additional label.

Paul Ladage paul.ladage@elster.com