

MR goes high pressure:

MR HP20 high-pressure regulators – the sequel

The high-pressure regulator MR HP20 was launched at the beginning of this year. The MR HP20 is supplied with measuring unit MW 400 in the nominal size of DN 50. Early 2012 will see the introduction of nominal sizes DN 80 and DN 100 with the measuring units MW 300 and MW 500.

The device series will thus be considerably extended in the higher capacity range and the outlet pressure range will be increased to up to 2 bar. The Accuracy Class varies between AC 10 and AC 2.5, depending on the outlet pressure (Fig. 1).

In addition, within the scope of an expansion of approval, the trip pressure range of the safety shut-off valve has been increased. Thanks to different measuring unit sizes – L100, L50 and H50 – the upper trip pressure range is extended to 50 mbar – 5000 mbar and the lower trip pressure range to 10 – 2500 mbar.



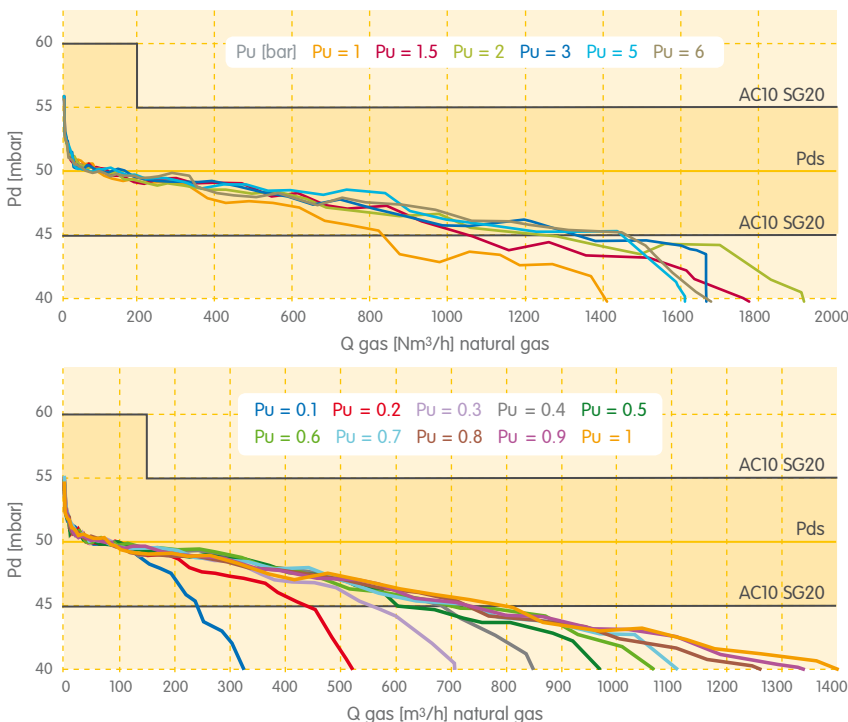
Fig. 1: Accuracy Classes

DN	Measuring unit	Outlet pressure range (Wd)	Accuracy Class	Lock-up pressure class
50	MW 400	20 – 700	AC 10/AC 5/AC 2.5	SG 20/SG 10/SG 5
	MW 300	300 – 2000	AC 2.5	SG 5
80, 100	MW 500	20 – 400	AC 10/AC 5/AC 2.5	SG 20/SG 10/SG 5
	MW 400	200 – 700	AC 10/AC 5	SG 20/SG 10
	MW 300	600 – 2000	AC 2.5	SG 5

Pd	AC	SG
20 – 100	10	20
>100 – 300	5	10
>300 – 2000	2.5	5

All specifications in mbar

Fig. 2: Characteristic curves of the MR HP20-50



All of the devices are available with connection flanges of pressure ratings PN 16, PN 25, PN 40 and ANSI 150. Further installation lengths are available on request, making the series an attractive option as replacement units for existing systems.

Thanks to the additional nominal diameters, the maximum capacity of the system is increased to a flow rate coefficient of 4500 for nominal size DN 100.

MR HP20 for medium pressure

The MR HP series features a large valve cross-section and excellent inlet pressure compensation, whereby high capacities are available even at the lower end of the inlet pressure range. The DN 50 device thus reaches capacities of around 1000 Nm³/h of natural gas at inlet pressures between 1 and 2 bar. The MR HP series is thus also an extremely suitable way of extending the capacity of the existing MR series (Fig. 2).

For the additional nominal diameters, the user-friendly and maintenance-friendly concept has been continued. Thanks to the uniform design, the effort and expenses for staff training and device maintenance is also reduced due to the range of different nominal sizes.

The corresponding spare parts kits are available for regular maintenance pursuant to G 495. The spare parts kits are composed in a modular way, just like the devices which have a modular design (Fig. 3).

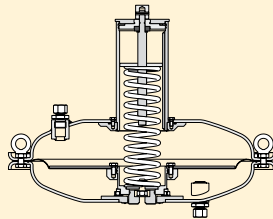
Thus there is one kit each for the various measuring units and the corresponding

Most important technical data of the MR HP20 series:

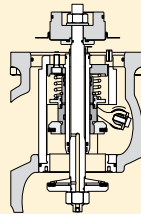
Pressure rating:	PN 20 IS
Nominal diameter:	DN 50, 80, 100
Flow rate coefficient	
DN 50:	1400
DN 80:	3600
DN 100:	4500
Inlet pressure:	0.1 – 20 bar
Outlet pressure range:	20 – 2000 mbar
Accuracy Classes:	AC 2.5; AC 5; AC 10
SSV set range OPSO:	45 – 5000 mbar
SSV set range UPSO:	10 – 2500 mbar

Fig. 3: Spare parts kits for measuring units, valves and safety control unit SCU

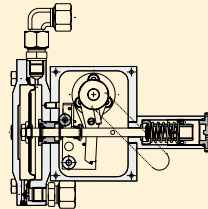
- 73021572** Spare parts kit MR HP, measuring unit 300
- 73020791** Spare parts kit MR HP, measuring unit 400
- 73021573** Spare parts kit MR HP, measuring unit 500



- 73020790** Spare parts kit MR HP, valve DN 50
- 73021574** Spare parts kit MR HP, valve DN 80/100



- 73020789** Spare parts kit MR HP, SCU, L100/L50/H50



valves, and one kit for the SSV. In this way, it is possible to manage with six different spare parts kits instead of 24 kits for the various device configurations. This simplifies spare parts ordering in the warehouse and also reduces the capital commitment. Even if only partial maintenance is to be carried out, e.g. on the valve, it is not necessary to procure the entire parts kit – making it a cost-effective and flexible solution. The kits include all rubber parts and wear parts.

3D CAD models of the devices are, of course, available in various formats for system planning. Just give us a call!

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As 2011 draws to a close, we would like to take this opportunity to thank you for your trust and cooperation over the past year.

We are looking forward to breaking new ground and finding new, ambitious solutions together with you in the forthcoming year 2012.

We wish our customers and business partners a relaxing and enjoyable festive season and a prosperous New Year.

