



# Type Examination Certificate

No. C5AUK 022629 0074 Rev. 00

**Holder of Certificate:** **Karl Dungs GmbH & Co. KG**  
Karl-Dungs-Platz 1  
73660 Urbach  
GERMANY

**Product:** **Fittings (Gas)**  
**Multifunctional Control**  
**MBE-S(D)...R**

The Approved Body of TUV SUD BAPT Unlimited confirms according to the Gas Appliances (Enforcement) and Miscellaneous Amendment Regulations, UKSI 2018:389 (as amended by UKSI 2019:696), that in the conformity assessment procedure in accordance with Article 14 the listed product has been assessed in a type examination (module B - production type) and complies with the relevant provisions according to Annex I on appliances burning gaseous fuels. It refers only to the sample submitted for testing and certification and on its technical documentation. See also notes overleaf.

**Test report no.:** V-M 1746-00/23

**Valid until:** 2033-07-13

**Date,** 2023-07-17

( Johannes Steiglechner )



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**Model(s):**

- MBE-065-S-R-XX,**
- MBE-2½L-S-R-XX,**
- MBE-065-SD-R-XX,**
- MBE-2½L-SD-R-XX,**
- MBE-080-S-R-XX,**
- MBE-3L-S-R-XX,**
- MBE-080-SD-R-XX,**
- MBE-3L-SD-R-XX,**
- MBE-100-S-R-XX,**
- MBE-4L-S-R-XX,**
- MBE-100-SD-R-XX,**
- MBE-4L-SD-R-XX,**
- MBE-125-S-R-XX,**
- MBE-5L-S-R-XX,**
- MBE-125-SD-R-XX,**
- MBE-5L-SD-R-XX,**
- MBE-150-S-R-XX,**
- MBE-6L-S-R-XX,**
- MBE-150-SD-R-XX,**
- MBE-6L-SD-R-XX,**



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## Models

nominal size	type designation	functions	rated voltage
DN 65	MBE-065-S-R-XX MBE-2½L-S-R-XX MBE-065-SD-R-XX MBE-2½L-SD-R-XX	valve, pressure regulator valve, pressure regulator valve, flow adjustment, pressure regulator valve, flow adjustment, pressure regulator	AC 100-240 V, 50/60 Hz; or DC 24 V
DN 80	MBE-080-S-R-XX MBE-3L-S-R-XX MBE-080-SD-R-XX MBE-3L-SD-R-XX	valve, pressure regulator valve, pressure regulator valve, flow adjustment, pressure regulator valve, flow adjustment, pressure regulator	AC 100-240 V, 50/60 Hz; or DC 24 V
DN 100	MBE-100-S-R-XX MBE-4L-S-R-XX MBE-100-SD-R-XX MBE-4L-SD-R-XX	valve, pressure regulator valve, pressure regulator valve, flow adjustment, pressure regulator valve, flow adjustment, pressure regulator	AC 100-240 V, 50/60 Hz; or DC 24 V
DN 125	MBE-125-S-R-XX MBE-5L-S-R-XX MBE-125-SD-R-XX MBE-5L-SD-R-XX	valve, pressure regulator valve, pressure regulator valve, flow adjustment, pressure regulator valve, flow adjustment, pressure regulator	AC 100-240 V, 50/60 Hz; or DC 24 V
DN 150	MBE-150-S-R-XX MBE-6L-S-R-XX MBE-150-SD-R-XX MBE-6L-SD-R-XX	valve, pressure regulator valve, pressure regulator valve, flow adjustment, pressure regulator valve, flow adjustment, pressure regulator	AC 100-240 V, 50/60 Hz; or DC 24 V

Remark 1: The placeholder "XX" in the above designation identifies the type of power supply of the multifunctional control. Either DC voltage (designated VD-...-DC-...) or AC voltage (designated VD-...-AC-...) is possible.

Remark 2: The POC functionality can be combined with any supply voltage (AC or DC) and does not have an effect on other operating functions. The corresponding designation of the multifunctional control is MBE-...-S(D)-...-POC.



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## Components

valve body MBE-SD...R	valve body MBE-S...R	nominal size, connection
VB-065 VB-2½L	VB-065-S VB-2½L-S	DN 65, flange DN 65, PN 16 DN 65, flange NPS 2½, class 150
VB-080 VB-3L	VB-080-S VB-3L-S	DN 80, flange DN 80, PN 16 DN 80, flange NPS 3, class 150
VB-100 VB-4L	VB-100-S VB-4L-S	DN 100, flange DN 100, PN 16 DN 100, flange NPS 4, class 150
VB-125 VB-5L	VB-125-S VB-5L-S	DN 125, flange DN 125, PN 16 DN 125, flange NPS 5, class 150
VB-150 VB-6L	VB-150-S VB-6L-S	DN 150, flange DN 150, PN 16 DN 150, flange NPS 6, class 150

pressure sensor	limits of the regulator function
PS-10/40	pressure regulator class A, <i>min. inlet pressure 6 mbar / 0,6 kPa,</i> <i>outlet pressure 4 to 100 mbar / 0,4 to 10 kPa,</i> <i>minimum pressure difference 2 mbar / 0,2 kPa</i>
PS-50/200	pressure regulator class A, <i>min. inlet pressure 22 mbar / 2,2 kPa,</i> <i>outlet pressure 20 to 500 mbar / 2 to 50 kPa,</i> <i>minimum pressure difference 2 mbar / 0,2 kPa</i>
PS-0	zero pressure regulator, <i>min. inlet pressure 2 mbar / 0,2 kPa,</i> <i>outlet pressure -5 to +5 mbar / -0,5 to +0,5 kPa,</i> <i>minimum pressure difference 2 mbar / 0,2 kPa</i>



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## Technical data / range of application

gas family	all gases of 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> gas family
valve class acc. to DIN EN 161	A
regulator class acc. to DIN EN 88-1	see models and components
group according to DIN EN 13611	2
max. operating pressure	700 mbar / 70 kPa
range of regulator	see models and components
ambient temperature	-20°C to +60°C
installation position	actuator in vertical to horizontal position
<b>Electrical data</b>	AC 100 – 240 V, 50/60 Hz or DC 24 V 16 VA / 8 W IP 55

## Further details

The test of the pressure regulator function was carried out following requirements of DIN EN 88-1: 2016 although the maximum operating pressure exceeds the scope of the standard.

**Tested according to:**

- DIN EN 126:2012**
- DIN EN 161:2013**
- DIN EN 88-1:2016**
- E DIN EN 88-3:2017**
- DIN EN 13611:2022**