

CERTIFICATE

No. 30541901E/SW/14.05.2025

The valve with the brand name

**control valve RCV (Kalrez)
NPS1/2" / 5000psi**

of the manufacturer

**Badger Meter Inc.
US – 53223-0099 Milwaukee**

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D-PL-12008-01-00

was tested according to DIN EN ISO 15848-1 (dated July 2017). The following sealing systems were used:

stem sealing(s):

- 1 pc. packing set REK1A, consisting of 1 ring Kalrez – 1 ring PTFE – 1 ring Kalrez;
material: Kalrez Compound 3035 / PTFE; manufacturer: DuPont;
dimensions: Ø 11.125 x Ø 4.763 mm.

body sealing(s):

- 1 pc. gasket; material: stainless steel 316L;
dimensions: Ø 32.0 x Ø 24.0 x 0.9 mm.

In the laboratory of amtec a test with the test no. 25-233 was conducted under the following test conditions:

endurance class:	CC1	control valve
test temperatures:	RT	
test pressures:	345	bar
medium:	He	
tightness class:	CH	
mechanical cycles:	20,000	pcs.
stem movement:	2.86	mm (stroke)
stem diameter D ₀ :	4.76	mm
number of stem seal adjustments (SSA):	0	pcs.

The maximal leak rate measured with the helium leak detector during the test with 20,000 mechanical cycles and 0 thermal cycles was **9.1 · 10⁻⁴ mg/(s·m)** for the stem sealing. The concentration for the body sealing was less than 50 ppmv.

The performance class of the tested valve is:

ISO FE CH – CC1 – SSA 0 – tRT – (345 bar) – ISO 15848-1

This qualification may be transferred to untested valves with a stem diameter of $D_0 / 2 \leq D \leq 2 \cdot D_0$, provided that the criteria listed in Chapter 8 of DIN EN ISO 15848-1 are met. This certificate is valid only in connection with the test report 3054191/- and the boundary conditions listed therein.

amtec Advanced Measurement Messtechnischer Service GmbH
Lauffen, May 14th, 2025

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