

CERTIFICATE

No. 30454401bE/SW/17.05.2021

The valve with the brand name

**Megapress S steel-ball valve type 4375.8
DN40/PN16**

of the manufacturer

**Viega GmbH & Co. KG
DE – 57439 Attendorn**

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

shaft sealing:

- 1 x Sliding ring; material: PTFE M139; dimensions: \varnothing 20.5 mm x \varnothing 16 mm x 2 mm,
- 1 x Stuffing box sealing; material: PTFE M139; dimensions: \varnothing 22.3 mm x \varnothing 16 mm x 8 mm.

body sealing:

- 2 x body and ball sealing; material: PTFE M139; dimensions: \varnothing 81.8 mm x \varnothing 50 mm x 2 / 7.8 mm.

In the laboratory of amtec a test was conducted under the following test conditions:

test no.:	21-030	
endurance class:	CO1	isolating valve
temperature:	RT / 140	°C
test pressure:	16 / 16	bar
medium:	He	
tightness class:	BH	
mechanical cycles:	205	pcs.
shaft motion:	90	° (rotation)
shaft diameter D_0 :	16	mm
number of shaft seal adjustments (SSA):	1	pcs.

The maximal leak rate measured with the helium leak detector during the test with 205 mechanical cycles and 2 thermal cycles was $3.1 \cdot 10^{-5}$ mg/(s·m) for the shaft sealing. The concentration for the body sealing was less than 50 ppmv.

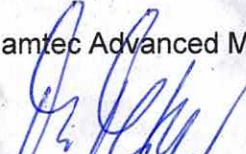
The performance class of the tested valve is:


ISO FE BH – CO1 – SSA 1 – tRT (140 °C) – (16/16 bar) – ISO 15848-1

This qualification may be transferred to untested valves with a shaft 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 3045442/b and the boundary conditions listed therein.

amtec Advanced Measurement Messtechnischer Service GmbH

Lauffen, May 17th, 2021


B. Eng. M. Metzger
Test Engineer


Dipl.-Ing. S. Weiler
Deputy Head Laboratory

