

# CERTIFICATE

No.: FS 61000364.006



## Licence holder

BROEN POLAND Sp. z o.o.  
ul. Pieszyska 10  
58-200 Dzierżonów, PL

## Manufacturing site

BROEN POLAND Sp. z o.o.  
Rogoźno Branch,  
ul. Wojska Polskiego 4,  
64-610 Rogoźno, PL



## Project number

26100378

## Our reference number

SD/84932067

## Valid through

N/A

## Basis for certification

PN-EN 61508-1:2010

PN-EN 61508-2:2010

## Type of product certification

1b in accordance with PN-EN ISO/IEC 17067

## Certification scheme

PCBSIL

## Description of the certified product/type or marking (identification of the device):

TÜV Rheinland Polska confirms that industrial ball valves of carbon steel and stainless steel, type AH:

PN 16: DN 15 + 1000 (NPS ½" + 40")  
PN 25: DN 15 + 1000 (NPS ½" + 40")  
PN 40: DN 15 + 1000 (NPS ½" + 40")  
PN 63: DN 15 + 1000 (NPS ½" + 40")  
PN 100: DN 15 + 1000 (NPS ½" + 40")  
PN 160: DN 15 + 1000 (NPS ½" + 40")  
PN 250: DN 15 + 1000 (NPS ½" + 40")  
PN 320: DN 15 + 1000 (NPS ½" + 40")

PN 400: DN 15 + 1000 (NPS ½" + 40")  
CL 150: DN 15 + 1000 (NPS ½" + 40")  
CL 300: DN 15 + 1000 (NPS ½" + 40")  
CL 600: DN 15 + 1000 (NPS ½" + 40")  
CL 900: DN 15 + 1000 (NPS ½" + 40")  
CL 1500: DN 15 + 1000 (NPS ½" + 40")  
CL 2500: DN 15 + 1000 (NPS ½" + 40")

For statistically worst case and diagnostic cover DC=0%, for annual T1=8760h checking tests and taking into account the percentage of safe damage SFF=0%; MTTR=32h while maintaining the limit number of cycles and proper operating conditions determined by the manufacturer on the basis of statistical data, the following are calculated:

Probability of dangerous damage per hour PFHD =  $5.9 \cdot 10^{-7}$  [h<sup>-1</sup>].

The results qualify the above-mentioned ball valves at the SIL2 safety integrity level of the valve tightness function, while maintaining the limit number of cycles and conditions of proper operation specified by the manufacturer.

## TÜV Rheinland Polska Sp. z o.o.

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Certification Body

Tomasz Opaszowski

Zabrze, 17.10.2023

This certificate is subject to the Certificate Regulation and the General Terms and Conditions of Business of JCW TRP and refers solely to the products consistent with the specimen which serves as the basis for conformity assessment. The certificate itself does not authorize its owner to put the CE label on the product.



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