



*This certifies that*

**DANFOSS A/S**

*has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.*

**EV 220BW 12B NO & EV 220BW 12BD NO SOLENOID VALVES**

*The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Directory ([www.wras.co.uk/directory](http://www.wras.co.uk/directory))*

*The product so mentioned will be valid until the end of:*

**December 2024**

**1912027**

*Certificate No.*

A handwritten signature in black ink that reads 'J Funnival'.

*Secretary*

A handwritten signature in black ink, consisting of several vertical strokes followed by a horizontal line.

*Chairman, Product Assessment Group*



12<sup>th</sup> December 2019

Danfoss A/S  
81 DK-6430 Nordborg  
Denmark

Water Regulations Advisory Scheme Ltd.  
Unit 13, Willow Road,  
Pen y Fan Industrial Estate,  
Crumlin,  
Gwent,  
NP11 4EG

**Approval Number: 1912027**

Dear Sir/Madam

1. Production samples of the products described in Approval Information ("Products") have been subjected to relevant mechanical and water quality tests contained in the "Regulators' Specifications" for the purposes of your application for WRAS Approval.
2. After considering the test reports and examining the Product/s, The Water Regulations Advisory Scheme Ltd. ("WRAS Ltd" / "WRAS") finds that their use, when correctly installed (see paragraph 3) complies with the requirements of The Water Supply (Water Fittings) Regulations 1999, The Water Supply (Water Fittings) (Scotland) Byelaws 2014, The Water Supply (Water Fittings) Regulations (Northern Ireland) 2009 and all other applicable WRAS requirements from time to time.

The non-metallic materials of construction, in contact with the water, are suitable for contact with wholesome water intended for domestic purposes having met the requirements of BS 6920-1: 2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.

WRAS Approvals are granted subject to and in accordance with the Standard Terms and Conditions of WRAS Fittings Approval as amended from time to time ("**Standard Terms of Approval**"). You have confirmed your acceptance of the Standard Terms of Approval by submitting your application for WRAS Approval. A copy of the current Standard Terms of Approval are attached to this letter as Appendix B and are also available from the WRAS website: [www.wras.co.uk](http://www.wras.co.uk).

Terms defined in the Standard Terms of Approval shall have the same meaning in this letter unless the context otherwise requires.

3. Installation Requirements & Notes (IRNs) are set out in Appendix A. WRAS Product Approvals may include one or more IRNs, which must be followed by the installer to ensure that the product is installed correctly to comply with The Regulations and Byelaws. Since the incorrect installation of products could result in contravention of the Regulations or Byelaws requirements, **the attention of your customers should be drawn to any IRNs.**
4. Please note that the use of the Products described in any particular area of supply is at the discretion of the Water Undertaker in that area.
5. Approval Holders may quote in their sales literature that **WRAS finds that the use of these products, when correctly installed, will not contravene the requirements of** The Water Supply (Water Fittings) Regulations 1999, The Water Supply (Water Fittings) (Scotland) Byelaws 2014, The Water Supply (Water Fittings) Regulations (Northern Ireland) 2009.
6. The "WRAS Approved Product" logos are certification marks registered under the Trade Marks Acts 1994 ("**Certification Marks**"). Approval Holders may use the Certification Marks in accordance with the Standard Terms of Approval.
7. Please verify the details of your Product as set out in the approval information and advise us of any discrepancies by no later than **12<sup>th</sup> January 2020**

Yours Faithfully

A handwritten signature in black ink, appearing to read 'Jason Furnival', written in a cursive style.

Jason Furnival  
Secretary, Product Approval Group

**APPROVAL INFORMATION**

Validity dates: This approval is valid for fittings (as listed below in model) manufactured AND installed between December 2019 & December 2024

Section Number: **2230**

Section title: **VALVES - SOLENOID, METAL.**

Installation requirement notes: **2230**  
(IRN's are set out in Appendix A)

Product description: Type EV220BW range of normally open solenoid valves with brass bodies and EPDM diaphragms and seats.  
Maximum working pressure 10.0 bar. Maximum operating temperature 90°C.

Size: ½" BSP (F)

Identification Marking: Danfoss on side of body.

Factor: Danfoss A/S

Model: EV 220BW 12B NO & EV 220BW 12BD  
NO

## **APPENDIX A**

### **INSTALLATION REQUIREMENTS & NOTES**

You are advised to draw customers' attention to the installation requirements and notes set out below which must be followed to ensure that the fittings described above are installed in accordance with the requirements of the Regulations and Byelaws: