



**TYPE APPROVAL CERTIFICATE**  
No. FPE174116XG

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	<b>DIAPHRAGM VALVES</b>
<i>Type</i>	<b>WFB DN40 - WFB DN65</b>
<i>Applicant</i>	<b>CRANE PROCESS FLOW TECHNOLOGIES LTD GRANGE ROAD CWMBRAN GWENT NP44 3XX UK UNITED KINGDOM</b>
<i>Manufacturer</i>	<b>CRANE PROCESS FLOW TECHNOLOGIES LTD</b>
<i>Place of manufacture</i>	<b>GRANGE ROAD CWMBRAN GWENT NP44 3XX UK UNITED KINGDOM</b>
<i>Reference standards</i>	<b>BRITISH STANDARD 5041: Part 1:1987, Appendix A5</b>
<i>Reference documents</i>	<b>Rules for Testing and Certification of Marine Materials and Equipment</b>

Issued in **HAMBURG** on **November 2, 2016**. This Certificate is valid until **November 1, 2021**

RINA Services S.p.A.  
**Piero Moncheroni**

This certificate consists of this page and 1 enclosure



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WFB DN40 - WFB DN65

**Reference documents**

- List n° DM60/E/1/82
- Product information P1046
- RINA Fire test report n° 94 DG TO 231 dated 16/05/1994
- Saunders drawing " Diaphragm valves WFB ND65 and ND40" filed by RINA with n° 4359697.

**Materials/Components**

Body: SG iron and gunmetal

Bonnet: cast iron ( gunmetal available)

Stem: manganese-bronze

Diaphragms: flexible reinforced diaphragm with indicated "Fire" grade.

**Technical characterists**

Design pressure: 1.5 N/mm<sup>2</sup>

**Field of application**

Fire main water piping systems

**Remarks**

Each valve is to be marked as follows:

- Manufacturer's name or trade mark;
- Type designation and size;
- Max.design pressure;
- The valve installation on board is to be made in accordance with the manufacturer instruction and to the satisfaction of the RINA Surveyor.

Mass produced articles of the aforesaid material are to be marked or labelled with the trade name and the data of the Company to whom this Certificate is addressed. The validity of this Certificate is dependent on the compliance of each manufactured product with the prototype which underwent the type approval tests and such compliance shall be stated by the manufacturer. Moreover, the Company is fully responsible for ensuring compliance by performing all the necessary checks also in respect of its sub-suppliers. Notwithstanding the above, RINA reserves the right to make any checks it deems appropriate during production. The validity of this Certificate ceases in the case of amendments to the rules on the basis of which the Certificate was issued.

**HAMBURG November 2, 2016**

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