



Lloyd's  
Register

## Type Approval Certificate Extension

*This is to certify* that Certificate No. 03/00081(E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	Bermad UK Ltd
<b>PLACE OF PRODUCTION</b>	Unit 8, Hungerford Trading Estate, Smitham Bridge Road Hungerford Berkshire RG17 0QP United Kingdom
<b>DESCRIPTION</b>	Hydraulically operated diaphragm valves of elastomeric type with flange grooved or threaded connections.
<b>TYPE</b>	700 Series
<b>SPECIFIED STANDARDS</b>	Lloyd's Register's Rules and Regulations for the Classification of Ships; ASME/ANSI B 16.34 – 2013; Fire tested to ISO 6182 Part 5 – Requirements on test methods for deluge valves; UL-260 – Safety dry pipe and deluge valves for fire protection services.

<b>Certificate No.</b>	03/00081(E3)
<b>Issue Date</b>	13 December 2018
<b>Expiry Date</b>	07 August 2023
<b>Sheet</b>	1 of 3

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS



M.H.M.Rila  
Southampton Technical Support Office  
Marine & Offshore Lloyd's Register

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**APPLICATION**

For the use in water, seawater and foam fire protection systems. As Deluge Valves, Pressure Control Deluge Valve, Pressure Control Valve, Pressure Sustaining and Relief Valves, Hydrant Valve, and Air Maintenance Device (AMD) trim.

<b>RATINGS</b>	<b>Dimension</b>	1 1/2" (DN 40) to 16" (DN 400)
	<b>Design Pressure</b>	21 bar
	<b>Max. working Temperature</b>	60°C
<b>MATERIALS</b>	<b>Body material:</b> Epoxy-coated Ductile Iron to ASTM A536 Grade 65-45-12 or GGG	
	<b>Optional materials:</b> Cast Steel to ASTM A216 Grade WCB; Cast Steel to ASTM A352-03 Grade LCC; Cast Stainless Steel to ASTM A351 Grade CF8M; Cast Ni Al Bronze to ASTM B148 Grade C95800; Duplex Stainless Steel to ASTM A890 Grade 4A and 5A; 254 SMO A351 Grade CK-3MCuN, CN-3MN; Hastelloy C276 ASTM B366 Grade C276; Titanium to ASTM B367 Grade C2.	

**Certificate No.** 03/00081(E3)  
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Mohamed Rila  
Southampton Office



LR031:1.2016.06

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**OTHER CONDITIONS**


1. Valves are to be selected, installed and tested in accordance with the manufacturer's recommendations and LR's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
2. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
3. The approval does not cover the remote control of the valve linked to the actuator.
4. Due care should be taken not to over stress the fittings when tightening the bolts.
5. The valves are to be marked with the following information:
  - Manufacturer's name or trademark.
  - Pressure rating
  - Temperature range
  - Size

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 03/00081(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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