



Lloyd's  
Register

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	Bermad UK Ltd Unit 8, Hungerford Trading Estate, Smitham Bridge Road Hungerford. Berkshire RG17.0QP United Kingdom (UK)
<b>DESCRIPTION</b>	Hydraulically operated diaphragm valves of elastomeric type with flange grooved or threaded connections.
<b>TYPE</b>	400Y Series
<b>APPLICATION</b>	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>STANDARD</b>	Lloyd's Register Rules and Regulations for the Classification of Ships July 2016 ASME B16.34-2013 Valves – Flanged, Threaded, and Welding End
<b>OTHER CONDITIONS</b>	Valves are to be installed and maintained in accordance with manufacturer's recommendations

<b>Certificate No.</b>	17/20045
<b>Issue Date</b>	28 April 2017
<b>Expiry Date</b>	27 April 2022
<b>Sheet</b>	1 of 2

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



LR031.1.2016.06

Torsten Schröder  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



**RATINGS**

Sizes range:	1 1/2" (DN 40) to 16" (DN 400)	
Design pressure:	25 bar	
Max. temperature:	EPDM:	90°C
	NBR:	80°C
	NR:	60°C

Body material:  
Epoxy-coated Ductile Iron to ASTM A536 Grade 65-45-12 or GGG

Optional materials:  
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.

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HTS/ENS 36035-17 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

<b>Certificate No.</b>	17/20045
<b>Issue Date</b>	28 April 2017
<b>Expiry Date</b>	27 April 2022
<b>Sheet</b>	2 of 2



Torsten Schröder  
Hamburg Technical Support Office  
Lloyd's Register EMEA

LR031.1.2016.06

Torsten Schröder  
Hamburg Technical Support Office  
Lloyd's Register EMEA

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

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group