

CERTIFICATES

Lloyd's Register

TYPE APPROVAL CERTIFICATE




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 LR Type Approval System.

This certificate is issued to:

PRODUCER	DK T.M.I Co., Ltd.																		
PLACE OF PRODUCTION	343-6, Samrak-dong, Sasang-gu, Busan, 617-825 Korea																		
DESCRIPTION	Butterfly Valves																		
TYPE	DK-C series (concentric type) DK-D series (eccentric high performance type) DK-CA series (eccentric cargo type)																		
APPLICATION	Marine piping systems																		
DESIGN CODE STANDARD	LR Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, July 2008 JIS F 7480 : Shipbuilding – Rubber seat butterfly valves																		
RATINGS	<table border="0"> <tr> <td>1) DK-C series</td> <td>Nominal sizes</td> <td>: 50 to 600 mm</td> </tr> <tr> <td></td> <td>Nominal pressure rating</td> <td>: JIS 5K & 10K</td> </tr> <tr> <td>2) DK-D series</td> <td>Nominal sizes</td> <td>: 50 to 600 mm</td> </tr> <tr> <td></td> <td>Nominal pressure ratings</td> <td>: JIS 5K, 10K, 16K, 20K & ASME 150Lb</td> </tr> <tr> <td>3) DK-CA series</td> <td>Nominal sizes</td> <td>: 80 to 600 mm</td> </tr> <tr> <td></td> <td>Nominal pressure ratings</td> <td>: JIS 10K & 16K</td> </tr> </table>	1) DK-C series	Nominal sizes	: 50 to 600 mm		Nominal pressure rating	: JIS 5K & 10K	2) DK-D series	Nominal sizes	: 50 to 600 mm		Nominal pressure ratings	: JIS 5K, 10K, 16K, 20K & ASME 150Lb	3) DK-CA series	Nominal sizes	: 80 to 600 mm		Nominal pressure ratings	: JIS 10K & 16K
1) DK-C series	Nominal sizes	: 50 to 600 mm																	
	Nominal pressure rating	: JIS 5K & 10K																	
2) DK-D series	Nominal sizes	: 50 to 600 mm																	
	Nominal pressure ratings	: JIS 5K, 10K, 16K, 20K & ASME 150Lb																	
3) DK-CA series	Nominal sizes	: 80 to 600 mm																	
	Nominal pressure ratings	: JIS 10K & 16K																	
Certificate No.	08/10078																		
Issue Date	01 December 2008																		
Expiry Date	30 November 2013																		
Sheet	1 of 3																		


M. Mitsuoka
Yokohama Design Support Office
Lloyd's Register

Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS

"Lloyd's Register, 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 Group'. The Lloyd's Register Group 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 Group 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."