

Test Report No. 7191155186-MEC17/04-CYW
dated 13 FEB 2017



PSB Singapore

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SUBJECT:

Testing of wafer type cast iron check valves submitted by
KVS Valves Pte Ltd.

TESTED FOR:

KVS Valves Pte Ltd
7030 Ang Mo Kio Avenue 5, #08-55 North Star @AMK
Singapore 569880

Attn: Mr. Leroy Nai

TEST METHOD:

1. BS EN 12334:2001 Specification for Industrial valves –Cast iron check valves.
2. BS EN 558:2008+A1:2011 Specification for Industrial valves-Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems
3. BS EN 12266-1:2012 Industrial valves-Testing of metallic valves-Part 1 :Pressure tests,test procedures and acceptance criteria-Mandatory requirements.

TESTS CONDUCTED:

1. Dimensional measurements
2. Hydrostatic pressure test



LA-2007-0380-A
LA-2007-0381-F
LA-2007-0382-B
LA-2007-0383-G

LA-2007-0384-G
LA-2007-0385-E
LA-2007-0386-C
LA-2010-0464-D

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TUV®

SAMPLE DESCRIPTION:

Six samples of wafer type cast iron check valve (Model : KVS 100) PN 16 of size DN 65mmØ, 80mmØ, 100mmØ, 125mmØ, 150mmØ and 200mmØ were received.



EMBOSSSED MARKINGS ON VALVE BODY:

KVS 100 CI PN16
DN 65 ,DN 80, DN 100, DN 125, DN 150, DN 200

LABEL MARKINGS:

Body: Cast Iron
Seat: EPDM
W.P: 16 Bar
Disc: CF 8
Connection: PN 16
Shaft: SS 316

DATE TESTED:

23/01/2017 to 25/01/2017





RESULTS:

(1) Dimensional Measurements

Sample Reference	KVS-100		BS EN 12334:2001 Cross Reference to BS EN 558:2008+A1:2011 (Table 2 & 3a) Requirements	
	65mmØ	80mmØ		
Face to Face Dimension	47.30	65.0	46±2	64±2

Sample Reference	KVS-100		BS EN 12334:2001 Cross Reference to BS EN 558:2008+A1:2011 (Table 2 & 3a) Requirements	
	100mmØ	125mmØ		
Face to Face Dimension	64.50	71.0	64±2	70±2

Sample Reference	KVS-100		BS EN 12334:2001 Cross Reference to BS EN 558:2008+A1:2011 (Table 2 & 3a) Requirements	
	150mmØ	200mmØ		
Face to Face Dimension	75.60	89.50	76±2	89±2

(2) Hydrostatic Pressure Tests

Sample Reference	KVS-100		BS EN 12334:2011 Cross Reference to BS EN12266-1:2012 Requirements
	65mmØ	80mmØ	
Hydrostatic test pressure of 17.6 bar applied on valve seat	Pass	Pass	The valve shall withstand the hydrostatic test pressure without showing any signs of leakage.
Hydrostatic test pressure of 24 bar applied on valve body	Pass	Pass	

Juliana B... *[Signature]*

RESULTS:

Sample Reference	KVS-100		BS EN 12334:2011 Cross Reference to BS EN12266-1:2012 Requirements
	100mmØ	125mmØ	
Hydrostatic test pressure of 17.6 bar applied on valve seat	Pass	Pass	The valve shall withstand the hydrostatic test pressure without showing any signs of leakage.
Hydrostatic test pressure of 24 bar applied on valve body	Pass	Pass	

Sample Reference	KVS-100		BS EN 12334:2011 Cross Reference to BS EN12266-1:2012 Requirements
	150mmØ	200mmØ	
Hydrostatic test pressure of 17.6 bar applied on valve seat	Pass	Pass	The valve shall withstand the hydrostatic test pressure without showing any signs of leakage.
Hydrostatic test pressure of 24 bar applied on valve body	Pass	Pass	

CONCLUSION:

The above results of the tested sample meet the requirements BS EN 12334 : 2011, BS EN 558:2008+A1:2001 and BS EN 12266-1:2012 specification.



Lee Ngiap Boon
Testing Officer



Cliff Yew
Senior Associate Engineer
Industrial Group
Mechanical Centre



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July 2011

