

CERTIFICATE

Of Conformity according to MSS SP-99-2016a, Clause No. 5.5 & 5.6
FOR CHECK VALVES (NON-RETURN VALVES)

ORDER NO. : 166225433

CERTIFICATE NO. : 166225433-007

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NAME OF MANUFACTURER : M/s. DAWSONS-TECH COMPONENTS LLP
Unit No. DD - 6 & 7, Khan Real Industrial Estate,
N. H. 08, Pelhar, Vasai Phata, Vasai (East),
Dist. Palghar - 401208, Maharashtra, INDIA.

Testing Parameters :

1. Temperature during testing : 20° C to 40° C
2. Pressure Rating : CWP 413 Bar (6000 PSIG)
3. Test Pressure variations : ± 5 % PSIG
4. Test medium : Water
5. Material of Construction : SS316
6. Verification of material properties : Material test certificate reviewed according to MSS SP-99 2016a, Clause No. 3
7. Pressure Gauge : Calibration Certificate reviewed
8. Verification of Dimensions : Verified inspection report with relevant drawing of each components
9. Time for monitoring leakage : 3 minutes
10. Quantity of each size of Valves : 3 Nos

Valves Description : Check Valves (Non-Return Valves) Series : VC51

Procedure of Hydrostatic Proof Test and Burst Test :

Carry out the Hydrostatic Proof and Burst Test in accordance with MSS SP-99-2016a, Clause No. 5.5 & 5.6.

Test Result :

The test result shown below for the Hydrostatic Proof Test and Burst Test in accordance with MSS SP-99-2016a, Clause No. 5.5 & 5.6.

- Each Valve tested Hydrostatic Proof Test to 2 x CWP i.e. 2 x 413 Bar (6000 PSIG) = 826 Bar (12,000 PSIG)
- After successfully completion of Hydrostatic Proof Test carried out the Hydrostatic Burst Test

The Burst Test CWP rating calculated using following formula

i.e. $P \leq 0.25 BT_m / T_a$

Where : P = CWP Rating

B = The lowest burst test pressure recorded for three Valves tested

T_a = Actual tensile strength of the Valves tested

T_m = Specified minimum tensile strength of the material



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End Connection Size		Tested Valve No.	Hydrostatic Proof Test Result	Hydrostatic Burst Test Result
Inlet	Outlet			
1/4" NPT (Female)	1/4" NPT (Female)	VC51-FF4N-SSV/1	PASS*	PASS**
		VC51-FF4N-SSV/2	PASS*	PASS**
		VC51-FF4N-SSV/3	PASS*	PASS**
3/8" NPT (Female)	3/8" NPT (Female)	VC51-FF6N-SSV/1	PASS*	PASS**
		VC51-FF6N-SSV/2	PASS*	PASS**
		VC51-FF6N-SSV/3	PASS*	PASS**
1/2" NPT (Female)	1/2" NPT (Female)	VC51-FF8N-SSV/1	PASS*	PASS**
		VC51-FF8N-SSV/2	PASS*	PASS**
		VC51-FF8N-SSV/3	PASS*	PASS**
3/4" NPT (Female)	3/4" NPT (Female)	VC51-FF12N-SSV/1	PASS*	PASS**
		VC51-FF12N-SSV/2	PASS*	PASS**
		VC51-FF12N-SSV/3	PASS*	PASS**
1" NPT (Female)	1" NPT (Female)	VC51-FF16N-SSV/1	PASS*	PASS**
		VC51-FF16N-SSV/2	PASS*	PASS**
		VC51-FF16N-SSV/3	PASS*	PASS**

PASS* : No leakage detected during the test.

PASS** : No rupture or damage noted on the Valves body during the test.

The calculation test of CWP rating are based on the Burst Pressure recorded in accordance with MSS SP-99-2016a, Clause No. 5.6 are as per attached following test report :

1. DTMSS-VC51-4N
2. DTMSS-VC51-6N
3. DTMSS-VC51-8N
4. DTMSS-VC51-12N
5. DTMSS-VC51-16N

Comments :

DAWSONS-TECH Check Valves (Non-Return Valves) Series : VC51 meets the requirements of Hydrostatic Proof Test and Hydrostatic Burst Test in accordance with MSS SP-99-2016a, Clause No. 5.5 & 5.6.

For, **TUV Rheinland (India) Pvt. Ltd.**



Malcolm Dadina
 (General Manager - Industrial Services)

Date : 29/01/2020