Test Report

Report No.	HC-20240226-18-25-01
Product Name	Pressure Reducing Valve
Client	HOME CREATOR GROUP LTD

The Testing Centre of HOME CREATOR GROUP LTD

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Sample Name	Prssure Reducing Valve	**Size/Model**	1"
Product Code	HC-50902	**Client**	HOME CREATOR GROUP LTD
Batch No.	/	**Receiving Date**	2024.02.23
Order No.	/	**Test Date**	2024.02.24~2024.02.26
Samples Qty.	3 Pcs	**Test Location**	Test Centre
Temperature	22.4℃	**Humidity**	70%
Equip.Status	Good	**Sample(s) Status**	Good
Test Std.	According to BS1567:2000 standards		
Test Item(s)	1.Bending moment test of the body ; 2 Pressure strength and tightness of the body ; 3.Tightness between inlet and outlet chamber ; 4.Hydraulic range test。		
Test Equip.(No.)	Water valve pressure test machine（HC-01-002）、 Stopwatch (HCMB-002） Water valve pressure test machine（HC-02-011）; Bending and tensile test machine(HC-02-009) 。		
Test conclusion	The testing samples are qualified, acc. to the BS1567:2000 standards requirement. the details of testing result pls see Page 3 & 4. **Date Issue: February 26th , 2024**		
Remarks			

Approved by **Daniel Cooper** **Verified by** **Andrew Clarke** **Inspector** **Christopher Bell**

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No.	Test item(s)	Test specification	Sample No.	Test Results	Judgment
1	Bending moment test of the body	After applying 300N.m bending force to the valve for 30s, there should be no deformation and no fracture.	1	No deformation, no fracture	PASS
			2	No deformation, no fracture	PASS
			3	No deformation, no fracture	PASS
2	Pressure strength and tightness of the body	The pressure strength and tightness of the valve are verified by applying a water pressure of 25 bar to the valve's inlet connection and 16 bar to the valve's outlet conection , for period of 10 minutes, the sample should be free of leakage and deformation.	1	No leakage, no deformation	PASS
			2	No leakage, no deformation	PASS
			3	No leakage, no deformation	PASS
3	Inlet and outlet seal testing	Keep the inlet pressure of the reducing valve at 6bar and the outlet pressure at 3bar. After 10 minutes, the outlet pressure should be 3Bar±5%.	1	Outlet pressure: 2.86 bar	PASS
			2	Outlet pressure: 2.89 bar	PASS
			3	Outlet pressure: 2.91 bar	PASS
		Increase the inlet pressure from 6 bar to 16 bar in one bar increments , allowing 1 min afer each increase for the valve to stabilize . Maintain the inlet pressure at 16 bar for 10 min and observe that the outlet pressure should be 3Bar±5%.	1	Outlet pressure: 3.1 bar	PASS
			2	Outlet pressure: 3.07 bar	PASS
			3	Outlet pressure: 3.09 bar	PASS
4	Hydraulic range test	The inlet pressure is 8bar. The minimum pressure value obtained by adjusting the valve should be ≤1.5bar.	1	1.46bar	PASS
			2	1.38bar	PASS
			3	1.43bar	PASS
		The inlet pressure is 16bar. The minimum pressure value obtained by adjusting the valve should be ≤6.5bar.	1	2.98bar	PASS
			2	3.03bar	PASS
			3	3.04bar	PASS

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Testing photos:





Bending moment test of the body








Pressure strength and tightness of the body





Tightness between inlet and outlet chamber

Hydraulic range test

The End