



Client Ref. : --
Report No. : 211906PC210113

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REPORT ON TESTING OF GUNMETAL

Information Supplied by Client



Client : Wah Hung Fire Fighting Equipment Co., Limited
Client Address : G/F, No.129, Tai Nan Street, Prince Edward, Kowloon, Hong Kong
Project : Testing of Gunmetal Float Operated Valve
Sample Description : Gunmetal Float Operated Valve
Product Type : Float Valve
Brand : WAH Hung
Country of Origin : China
Manufacturer : Wah Nan Fire Fighting Equipment Co., Ltd.
Client I.D. : WH024A

METAL FLOAT OPERATED VALVE

Laboratory Information

Lab. Sample I.D. : PC210113/1-2
Date Received : 14 April 2021
Date Test Started : 27 May 2021
Date Test Completed : 21 June 2021
Test Method : BS 1212 : part 1

Sample Information : 1 : 1990 and BS EN 1982 : 2008

Nominal Size (DN)	Model	Boby Marking
40mm (1 1/2")	WH024A-40	 1 1/2
50mm (2")	WH024A-50	 2

Requirement

L1 (mm)	Manufacturer Requirement (mm)	Results
	L1 (mm)	
40	40	Pass
45	45	Pass

Pressure test

Observation	Remark
No leakage was detected during the test	Pass
No leakage was detected during the test	Pass
No leakage or sweating	--

Test

Observation	Remark
No leakage was detected during the test	Pass
No leakage	--

Properties		Requirements according to BS EN 1008 Grade CC491K castings
Chemical composition	85.0 – 87.0 ¹⁾	0 – 87.0 ¹⁾
Yield strength	2.31	2.0 max.
Ultimate tensile strength	4.05	4.10 max.
Elongation	5.0	4.0 – 6.0
Reduction of area	6.0	4.0 – 6.0
Impact strength	4.2	4.0 – 6.0
Hardness	10.0	10.01 max.
Surface finish	0.04	0.3 max.
Dimensional accuracy	40.0	10 max.
Heat treatment	0.15	0.25 max.
Weldability	40.0	0.01 max.

The material complies with the requirements of BS EN 1008 Grade CC491K castings.

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Test Sample (DN40)



Body Marking (DN40)



Body Marking (DN40)



Test Sample (DN50)



Body Marking (DN50)



Body Marking (DN50)

**** End of Report ****