

TEST REPORT

TITLE : Testing of Valve

OUR REFERENCE NO. : J8934-1

DESCRIPTION OF SAMPLE : Bronze check valves with female screwed ends; pressure rating PN25; to series B of BS5154; size: A) 25mm, B) 40mm and C) 50mm; for both fresh water and sea/salt water application





SAMPLE SUBMITTED BY : Gate Way Valve & Fitting Ltd.
Flat F, 22/F., Luk Hop Industrial Bldg.,
8 Luk Hop Street, San Po Kong,
Kowloon, Hong Kong.

MANUFACTURER : Toyo Valve Co., Ltd.

COUNTRY OF ORIGIN : JAPAN

BRAND : TOYO

BODY MARKINGS :

Size of valve (mm)	Body markings	
25	RED - WHITE	150 - 1 
40		150 - 1½ 
50		150 - 2 

MODEL : Fig. No. 230

METHOD OF TESTS : BSEN12288: 2003; BSEN12266-1: 2003

PERIOD OF TESTS : 4th to 10th March 2003

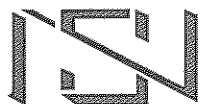
RESULTS: - (apply only to the samples tested)

1. DIMENSIONS (in millimetres)

	Sample		
	A	B	C
Nominal size	25	40	50
Face to face dimension	75.8	98.2	115.0
Minimum body wall thickness	2.9	3.5	3.6

Note: the female threads at the inlet and outlet of each sample comply with BS21 and ISO7-1.

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2. HYDRAULIC PRESSURE TEST

		Nominal pressure PN (bar)	Body test (1.5 PN)			Seat test (1.1 PN)		
			Test pressure (bar)	Duration (s)	Remark	Test pressure (bar)	Duration (s)	Remark
Sample	25mm	25	41.5	15	Pass	27.5	15	Pass
	40mm	25	41.5	15	Pass	27.5	15	Pass
	50mm	25	41.5	15	Pass	27.5	15	Pass
BSEN Requirement	15mm to 54mm	25	37.5	15	/	27.5	15	/

Note : no leakage was detected during the above test.

3. CHEMICAL COMPOSITION

The following test results apply to valve samples of size 25mm, 40mm and 50mm.

Component	Elements Compositions (%)							Designation to BSEN1982
	Cu	Zn	Pb	Sn	Ni	Fe	Other Impurities	
Body	83.0	5.6	5.3	5.3	0.4	/	0.4	CC491K
Cap	83.5	5.5	5.2	5.4	0.3	/	0.4	CC491K

4. SUMMARY OF RESULTS (apply only to the sample tested)

Dimensions -- Satisfactory
Hydraulic pressure test -- Satisfactory
Chemical composition -- Satisfactory

Remark :

- 1) The tests shown above were actually performed during the period from 4th to 10th March 2003; the test results were found complying with BS5154: 1991. However, BSEN12288: 2003 was referred to since the test results are found also complying with it.
- 2) The internal water passage surface of all valve samples does not have any metallic coating.

Date : 8th March 2010 Authorized signature : 

Nutek Systems is a testing agency,
approved by the Water Authority and
Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu
(Director)