



Nutek Systems

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TITLE : Testing of puddle flange

REFERENCE NO. : J 20858C

SAMPLE DESCRIPTION : 80mm (3") Bronze tank connector (puddle flange) with three nos. of flanges; pressure rating PN16

SAMPLE SUBMITTED BY : Wah Hung Fire Prevention Equipment Co., Ltd
Unit 14, 9/F Tonic Industrial Centre,
Blk A, No.26, Kai Cheung Road, Kowloon Bay,
Kowloon, Hong Kong

MANUFACTURER : Wah Nan Fire Fighting Equipment Co., Ltd

BRAND : Wah Hung

BODY MARKING :  DN80 X 600 PN16 BSEN1092-3

COUNTRY OF ORIGIN : China

MODEL : GMF-8024

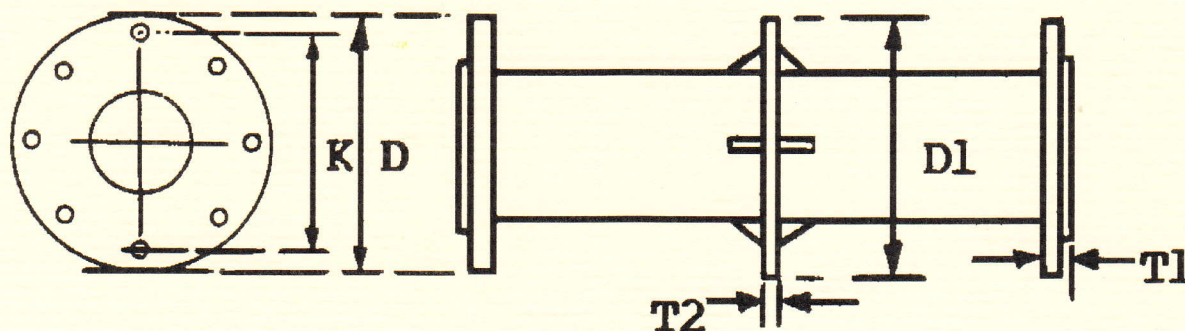
ITEM NO. : WH026A

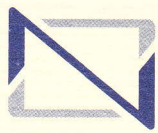
METHOD OF TESTS : BS EN 1092-3: 2003; BS EN 12266-1: 2012 &
BS EN 1982: 2008

PERIOD OF TESTS : 31st Aug., 2016 to 20th Oct., 2016

RESULTS: (this test report does not make any claims other than the reported results of the tested sample)

1. DIMENSIONS (in millimetres unless otherwise stated) (BS EN 1092-3: 2003)





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			Sample	BSEN Requirement (for PN16 integral flange)
Nominal size			80	/
Overall length			601.0	/
Body tube outside diameter, max.			96.3	/
Body internal diameter			80.5	/
Diameter of middle flange		D1	161.0	/
Thickness of middle flange		T2	10.0	/
Outermost flanges	outside diameter	D	200.0	200 ± 1
	pitch circle diameter	K	160.0	160 ± 0.9
	thickness, including raised face	T1	19.0	18 + 3.5 - 0
	bolt hole diameter	/	18.5	18 + 0.8 - 0
	number of bolt hole	/	8	8

2. HYDROSTATIC PRESSURE TEST (BS EN 12266-1: 2012 Cl. 4)

	Test pressure (bar)	Duration (s)	Remark
Sample	24	60	Pass
BS EN 12266 Requirement	24	60	/

Note : no leakage was detected during the above test.

3. CHEMICAL COMPOSITION

Component: Body

Designation: BS EN 1982:2008: CC491K

Composition(%)	Cu	Zn	Pb	Sn	Ni	Fe	Al
Body	85.7	5.1	4.5	4.6	0.1	0.1	<0.005
Requirement	83.0 - 87.0	4.0 - 6.0	4.0 - 6.0	4.0 - 6.0	max. 2.0	max. 0.3	max. 0.01
Remark	C	C	C	C	C	C	C

"C" - Comply



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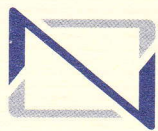
4. SUMMARY OF RESULTS (apply only to the sample tested)

Dimensions	-	Satisfactory
Hydrostatic Pressure Test	-	Satisfactory
Chemical Composition	-	Satisfactory

Date: 4 Nov 2016 Authorized signature: Vincent Lok

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

LOK K.W., Vincent
(Mechanical Engineer)



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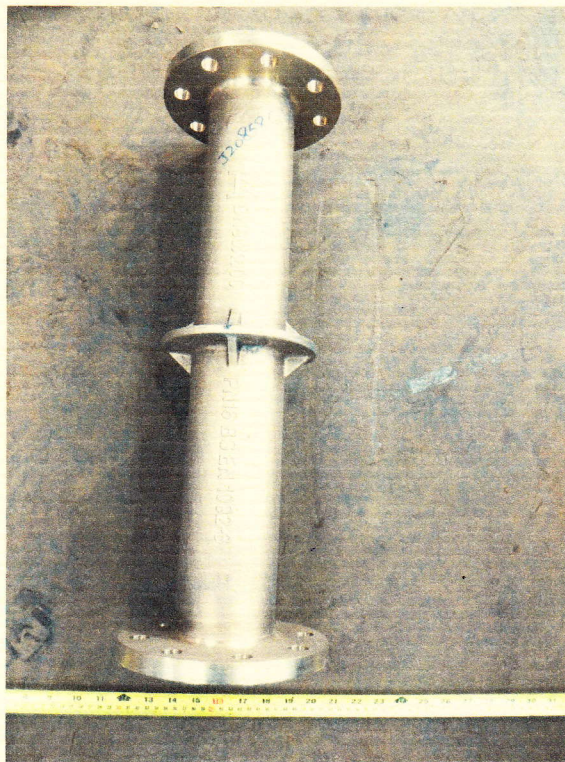


Figure 1 –80mm (3") Bronze tank connector (puddle flange)