NUTEK SYSTEMS, LTD.

Unit B, 13/F., Universal Ind. Ctr.,
23-25 Shan Mei Street,
Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2605 5736 Fax: (852) 2692 0798

TEST REPORT

TITLE : Testing of Expansion Joint

OUR REFERENCE : J10519-4

DESCRIPTION OF SAMPLE : Stainless steel (grade 304) expansion joint with PN16 pressure rating; nominal size: 65mm, 80mm, 100mm, 150mm and 200mm.

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

MANUFACTURER : Wah Nan Fire Fighting Equipment Co., Ltd.

BRAND : SUN

MODEL : WHSSF-PN16

ORIGIN : China

TEST REQUIRED : Internal hydraulic pressure test

PERIOD OF TESTS : 4th to 7th April 2005

RESULTS: - (apply only to the sample tested)

1. DIMENSIONS (all dimensions are in millimetres unless otherwise stated)

		Sample			Requirement (BS4504 Section 3.1 PN16, code 121)		
Nominal size		65	80	100	65	80	100
Face to face dimension, excluding tie rods and nuts		194.1	223	243.3	/	/	/
Flange	outside diameter	183.7	199.9	219	185 ±2.0	200 ±2.0	220 ±2.0
	pitch circle diameter	145.5	160.8	179.2	145 ±0.9	160 ±0.9	180 ±0.9
	thickness	20.0	21.5	22.8	18 +2.0 -1.3	20 +4.0 -1.5	20 +4.0 -1.5
	bolt hole diameter	18.0	18.0	18	18	18	18
	number of bolt hole	4 nos.	8 nos.	8 nos.	4 nos.	8 nos.	8 nos.

		Sample		Requirement (BS4504 Section 3.1 PN16, code 121)	
Nominal size		150	200	150	200
Face to face dimension, excluding tie rods and nuts		285.4	345	/	/
Flange	outside diameter	284.5	339	285 ±2.0	340 ±2.0
	pitch circle diameter	239.5	295.1	240 ±0.9	295 ±0.9
	thickness	25.9	27.8	22 +4.0 -1.5	24 +4.0 -1.5
	bolt hole diameter	22	22	22	22
	number of bolt hole	8 nos.	12 nos.	8 nos.	12 nos.

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2. INTERNAL HYDRAULIC PRESSURE TEST

Sample	Test pressure (bar)	Duration (s)	Sign of leakage	Remark
65mm	24	60	No leakage	Pass
80mm	24	60	No leakage	Pass
100mm	24	60	No leakage	Pass
150mm	24	60	No leakage	Pass
200mm	24	60	No leakage	Pass

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

Dimensions - Satisfactory

Internal hydraulic pressure test - Satisfactory

Date : 22nd March 2006 Authorized signature : _____

Samson W.K. Yiu

(Director)

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