



Nutek Systems

Nutek Systems (HK) Limited, Unit B, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, FO TAN, N.T., HONG KONG
Tel: +852 2605 5736 Fax: +852 2692 0798 Info@nuteksystems.com www.nuteksystems.com

TITLE : Testing of Flexible Joint

OUR REFERERANCE : J 20663A

DESCRIPTION OF SAMPLE : 15mm Flexible joint

SAMPLE SUBMITTED BY : Tozen (H.K.) Limited
Unit 1607, 16/F, Ho Lik Centre,
66A Sha Tsui Road, Tsuen Wan, N.T.

MANUFACTURER : TOZEN Corporation

BRAND : TOZEN

BODY MARKING : BS 4504 16BAR NOM 15A

BRAND: TOZEN	TYPE: SF600	BELLOWS	BRAID	SLEEVE X:	FLANGE
N.D: 15MM	W/P: 16	SUS: 304	SUS: 304	SUS Y:	BSPN16

MODEL : SF600

ORIGIN : PRC

TEST REQUIRED : BS EN 1092-1: 2007 + A1: 2013; BS EN 12266-1: 2012 &
BS EN 10088-1: 2014

PERIOD OF TESTS : 26th Jan., 2017to 10th Feb., 2017

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

1. DIMENSIONS (all dimensions are in millimetres unless otherwise stated)
(BS EN 1092-1: 2007 + A1: 2013, Table 13)

		Sample	Requirement
Nominal size		15	/
Face to face dimension		303.5	/
Flange	outside diameter	95.4	95 ± 4.0
	diameter of bolt circle	65.5	65 ± 1.0
	thickness	14.7	16 + 1.0 -1.3
	diameter of bolt hole	11.0	14 + 1.0 -0
	number of bolt hole	4	4



Nutek Systems

Nutek Systems (HK) Limited, Unit B, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, FO TAN, N.T., HONG KONG
Tel: +852 2605 5736 Fax: +852 2692 0798 info@nuteksystems.com www.nuteksystems.com

JOB REFERENCE: J 20663A

2. HYDRAULIC PRESSURE TEST (BS EN 12266-1: 2012)

	Nominal pressure PN	Test pressure (bar)	Duration (s)	Sign of leakage	Remark
Sample	25	40	60	No leakage	Pass
	25	50	120	No leakage	Pass
BSEN Requirement	25	1.5 x PN	15	No leakage	/
Client's Requirement	25	50	60	No leakage	/

3. CHEMICAL COMPOSITION

Component: Body

Designation: BS EN 10088-1:2014: 1.4301

Composition(%)	C	Si	Mn	Cr	S	P	Ni
Body	0.032	0.60	1.14	18.0	<0.005	<0.0075	8.1
Requirement	max. 0.070	max. 1.00	max. 2.00	17.5 - 19.5	max. 0.015	max. 0.045	8.0 - 10.5
Remark	C	C	C	C	C	C	C

"C" - Comply

4. SUMMARY OF RESULTS

- Dimensions - As shown in section 1
- Hydraulic pressure test - Satisfactory
- Chemical Composition - Satisfactory

Date: 11 Apr 2017 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)



Nutek Systems

Nutek Systems (HK) Limited, Unit B, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, FO TAN, N.T., HONG KONG
Tel: +852 2605 5736 Fax: +852 2692 0798 info@nuteksystems.com www.nuteksystems.com

JOB REFERENCE: J 20663A



J20663A

Figure 1 – 15mm Flexible joint



Nutek Systems

Nutek Systems (HK) Limited, Unit B, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, FO TAN, N.T., HONG KONG
Tel: +852 2605 5736 Fax: +852 2692 0798 info@nuteksystems.com www.nuteksystems.com

TITLE : Testing of Flexible Joint

OUR REFERERNC E : J 20663B

DESCRIPTION OF SAMPLE : 20mm Flexible joint

SAMPLE SUBMITTED BY : Tozen (H.K.) Limited
Unit 1607, 16/F, Ho Lik Centre,
66A Sha Tsui Road, Tsuen Wan, N.T.

MANUFACTURER : TOZEN

BRAND : TOZEN

BODY MARKING : BS 4504 16BAR NOM 15A

BRAND: TOZEN	TYPE: SF600	BELLOWS	BRAID	SLEEVE X:	FLANGE
N.D: 20MM	W/P: 16	SUS: 304	SUS: 304	SUS Y:	BSPN16

MODEL : SF600

ORIGIN : PRC

TEST REQUIRED : BS EN 1092-1: 2007 + A1: 2013; BS EN 12266-1: 2012 &
BS EN 10088-1: 2014

PERIOD OF TESTS : 26th Jan., 2017to 10th Feb., 2017

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

1. DIMENSIONS (all dimensions are in millimetres unless otherwise stated)
(BS EN 1092-1: 2007 + A1: 2013, Table 13)

		Sample	Requirement
Nominal size		20	/
Face to face dimension		305.0	/
Flange	outside diameter	105.0	105 ± 4.0
	diameter of bolt circle	74.0	75 ± 1.0
	thickness	17.0	18 + 1.0 -1.3
	diameter of bolt hole	14.0	14 + 1.0 -0
	number of bolt hole	4	4



Nutek Systems

Nutek Systems (HK) Limited, Unit B, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, FO TAN, N.T., HONG KONG
Tel: +852 2605 5736 Fax: +852 2692 0798 info@nuteksystems.com www.nuteksystems.com

JOB REFERENCE: J 20663B

2. HYDRAULIC PRESSURE TEST (BS EN 12266-1: 2012)

	Nominal pressure PN	Test pressure (bar)	Duration (s)	Sign of leakage	Remark
Sample	25	40	60	No leakage	Pass
	25	50	120	No leakage	Pass
BSEN Requirement	25	1.5 x PN	15	No leakage	/
Client's Requirement	25	50	60	No leakage	/

3. CHEMICAL COMPOSITION

Component: Body

Designation: BS EN 10088-1:2014: 1.4301

Composition(%)	C	Si	Mn	Cr	S	P	Ni
Body	0.032	0.60	1.14	18.0	<0.005	<0.0075	8.1
Requirement	max. 0.070	max. 1.00	max. 2.00	17.5 - 19.5	max. 0.015	max. 0.045	8.0 - 10.5
Remark	C	C	C	C	C	C	C

"C" - Comply

4. SUMMARY OF RESULTS

Dimensions - Satisfactory
 Hydraulic pressure test - Satisfactory
 Chemical Composition - Satisfactory

Date: 11 Apr 2017

Authorized signature: _____

Vincent Lok

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

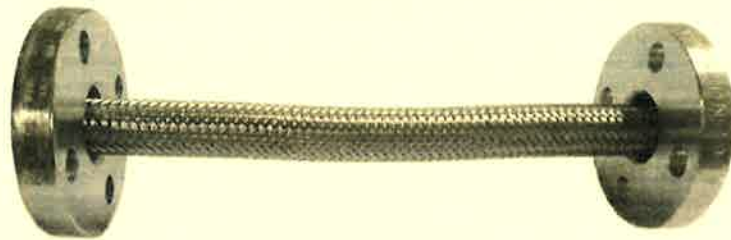
LOK K.W., Vincent
(Mechanical Engineer)



Nutek Systems

Nutek Systems (HK) Limited, Unit B, 13/F., Block A, Universal Industrial Centre, 23-25 Shan Mei Street, FO TAN, N.T., HONG KONG
Tel: +852 2605 5736 Fax: +852 2692 0798 info@nuteksystems.com www.nuteksystems.com

JOB REFERENCE: J 20663B



J20663B

Figure 1 – 20mm Flexible joint