

Manufacturer : Ningbo TIMEJOY Pneumatics & Hydraulics Co. Ltd.
Product : One Touch Fittings (8mm)

Testing Report

Report No : 1160002178
Date : Jan. 4th, 2013
Version : 00

Name : Ningbo TIMEJOY Pneumatics & Hydraulics Co. Ltd.
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1. Testing Result

Name:	One Touch Fittings	Size:	I.D. 8mm
Entrusting Party	Ningbo TIMEJOY Pneumatics & Hydraulics Co. Ltd.	Add.:	No.3 Gongsi Road, Zhuangshi Industrial Zone, Ningbo City, Zhejiang Province 315201, China
Manufacturer	Ningbo TIMEJOY Pneumatics & Hydraulics Co. Ltd.	Testing Classification	Commissioned Testing
Quantity of Samples	4pcs	Date	Dec. 18 th , 2012
No. of Samples	NS121119-01#~04#		
Testing Standard:	JB/T7056-2008	Testing Items:	Pressure, Low&High Temperature Testing
Testing Result:	See the testing results		

TUV Rheinland/CCIC(Ningbo) Co.,Ltd.

Engineer : Heng Huang/ 

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2. Sample Description:

Samples provided by Clients, The standard according to JB/T 7056-2008.

3. Testing Date : Dec.6th, 2012 to Dec. 22th, 2012

4. Testing address: Automotive Component Testing Center of Ningbo

5. Testing Details:

(1). High and Low Temperature Impact Test

Samples No.	Testing Details:	Testing Results:	Qualified or Not
01#	The samples were placed in a 80 ° C environmental chamber, which leads to 8bar air pressure to keep 3 hours, to see whether have abnormal situation;When high temperature test is completed, check its airtightness Lead to air pressure of 8bar and placed under water 5min, See whether continuous bubbles have.	Keep samples with air pressure 8bar in 80 ° C environmental chamber for 3 hours, No abnormal situation Lead to 8bar air pressure and placed in water for 5 mins, No continuous bubbles.。	Qualified

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Samples No.	Testing Details:	Testing Results:	Qualified or Not
01#	The sample is placed in a -20 ° C environmental chamber, which leads to 8bar air pressure to keep 3hours, to see whether the abnormal situation; The low temperature test is completed,check its airtightness , testing pieces pass into the air pressure of 8bar, placed in water for 5mins See whether have continuous bubbles.	Keep samples with air pressure 8bar in -20 ° C environmental chamber for 3 hours, No abnormal situation Lead to 8bar air pressure and placed in water for 5 mins, No continuous bubbles..	Qualified

(2) Pressure Testing:

Sample s No.	Testing Details:	Testing Results:	Qualified or Not
02#	Pass into the sample 25bar water pressure to keep 5mins, see whether have abnormal situation, If no, then pass into 35bar water pressure to maintain 5mins, see whether have abnormal situation.	Pass into 25bar water pressure, maintaining 5mins, no samples abnormalities; Pass into 35bar water pressure, keep 5mins, and there are no samples abnormalities.	Qualifid

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(3) High and Low Pressure Air Tightness Test

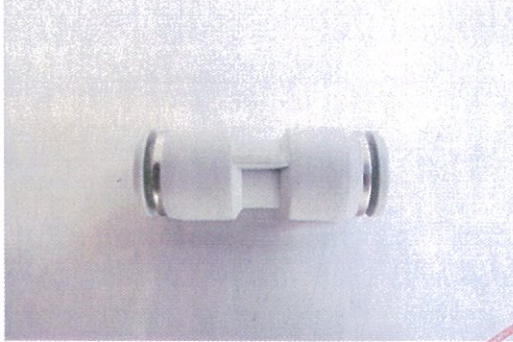
Sample s No.	Testing Details:	Testing Results:	Qualifie d or Not
03#	Pass Into 3bar air pressure and placed in water for 5 mins, if no continuous bubbles , Then rise to 12bar air pressure, placed the samples in water for 5mins, See whether continuous bubbles have.	Pass into air pressure 3bar, and placed in water, maintain 5mins, no continuous bubbles; Pass into air pressure 12bar, and placed in water, maintain 5mins, no continuous bubbles	Qualifie d

(4). Drawing Force Testing (With Nyton Tube)

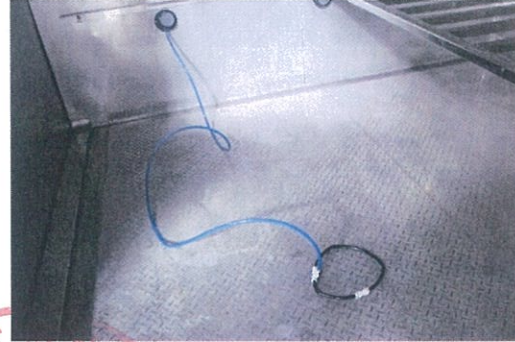
Sample s No.	Testing Details:	Testing Results:	Qualifie d or Not
04#	Insert PA pipe into both ends of the sample , and fix another end of PA tube with wire, The pull-off test is placed in the tensile machine, and the tensile speed of 50mm/min, try to get the pull-off strength data.	After the test, the pull-off force is 312N.	/

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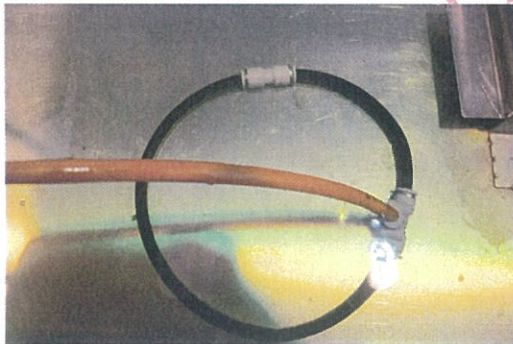
(5). Attached Testing Photos:



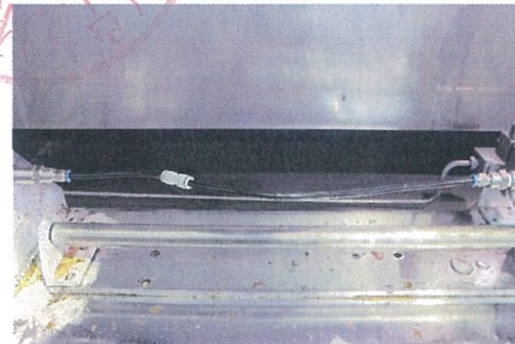
Pic 01 : Samples of one touch fitting



Pic 02 : High and low temperature impact test 1

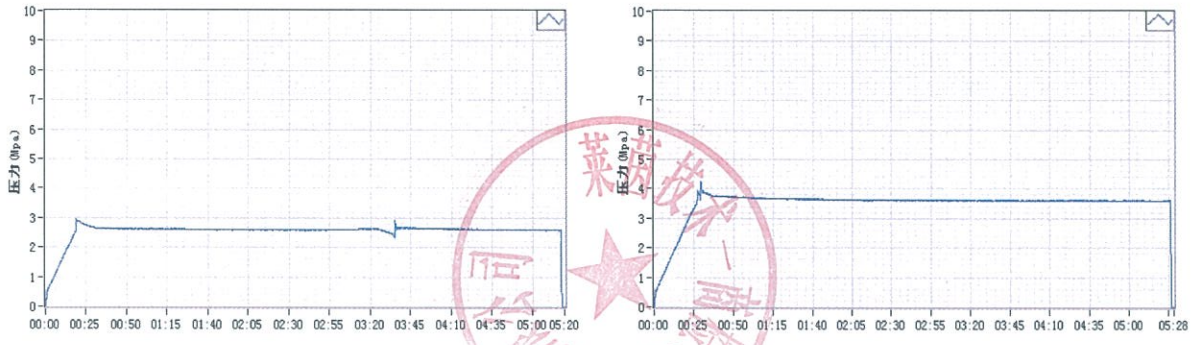


Pic 03: High and low temperature impact test 2



Pic 04 : Pressure Testing

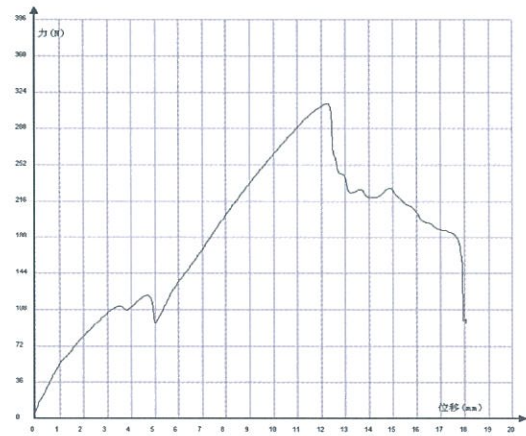
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Pic. 05 : 25bar Withstand test curve Pic. 06 : 35bar Withstand test curve



Pic. 07: Drawing Force Testing



Pic. 08 : Drawing Force Testing Curve