

TEST REPORT

REPORT NO: 1160003140
DATE : Nov.12th.2013
VEISION: 00

Name: Timejoy pneumatic&Hydraulic co.,ltd
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Manufacturer : TIMEJOY PNEUMATIC&HYDRAULIC CO.,LTD
 product : PU Tube

Sample name	PU Tube	Size	4×2.5 、 6×4 、 8×5 、 10×6.5 、 12×8 、 14×10 、 16×12
Entrusting party	Timejoy pneumatic& hydraulic co.,ltd	Add	No.3 Gongs Road, Zhuangshi Industrial Zone, Ningbo City,Zhejiang Province 315201,China
Manufacturer	Timejoy pneumatic & hydraulic co.,ltd	Testing Classification	Commission
Quantity of Samples	34PCS	Sample submitted by	Liang Lijun
No. of Samples	NS130249-01#~34#	Date	Mar 25 th .2013
Testing Standard	Requirements of clients	Testing item	Outside diameter and inside diameter/ Working pressure/ Burst pressure/ Low and high temperature test
Testing conclusion	Please refer to Testing result.		

Chen Dongming



Tested By:

Manufacturer : TIMEJOY PNEUMATIC&HYDRAULIC CO.,LTD
 product : PU Tube

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



1 Source & Purpose of sample:

Commissioned by TIMEJOY PNEUMATIC&HYDRAULIC CO.,LTD,PU Tube Will be tested.

2 Test basis:

- 2.1 Test method according to requirements of clients
- 2.2 Decision criterion:-----

3 Sample situation:

- 3.1 Ways of delivery: Submitted by client
- 3.2 Sample quantity:34PCS
- 3.3 Sample information:-----

4 Test project & grouping: See Table 1

Table 1

Sample Name	Sample No.	Test Projects	Remark
PU Tube	NS130249-01#-07#	Outside diameter and inside diameter	----
PU Tube	NS130249-08#-14#	Working pressure	----
PU Tube	NS130249-15#-20#	Burst pressure	----
PU Tube	NS130249-21#-34#	Low and high temperature test	----

5 Test period & address:

Test time: April. 01, 2013& April. 03, 2013

Test field: Ningbo automotive component testing center

6 Test result:

Manufacturer : TIMEJOY PNEUMATIC&HYDRAULIC CO.,LTD
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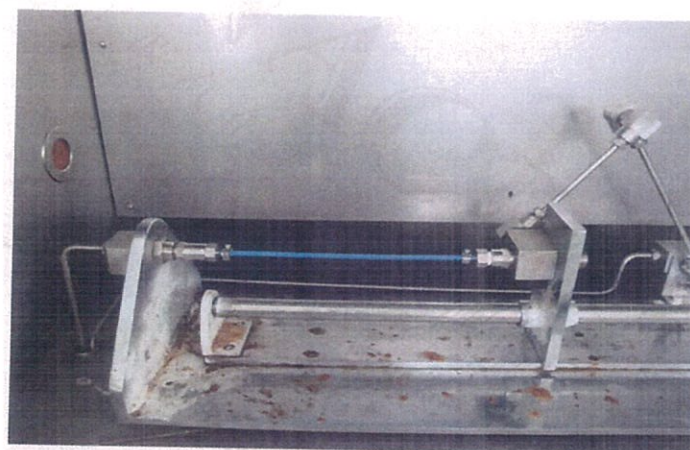
S/N	Test projects	Requirements	Sample type	Test results																		
1	Outside diameter and inside diameter	-----	4×2.5	Outside diameter: 4.01mm; Inside diameter: 2.48mm.																		
			6×4	Outside diameter: 6.02mm; Inside diameter: 3.97mm.																		
			8×5	Outside diameter: 8.01mm; Inside diameter: 4.99mm.																		
			10×6.5	Outside diameter: 10.03mm; Inside diameter: 6.48mm.																		
			12×8	Outside diameter: 12.02mm; Inside diameter: 7.99mm.																		
			14×10	Outside diameter: 14.04mm; Inside diameter: 9.95mm.																		
			16×12	Outside diameter: 16.03mm; Inside diameter: 11.98mm.																		
2	Working pressure	Pressure hold time: 5min; There shall be no leakage during the test.	4×2.5	There is no leakage after testing.																		
			6×4	There is no leakage after testing.																		
			8×5	There is no leakage after testing.																		
			10×6.5	There is no leakage after testing.																		
			12×8	There is no leakage after testing.																		
			14×10	There is no leakage after testing.																		
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			<table border="1"> <thead> <tr> <th>Type</th> <th>Pressure</th> </tr> </thead> <tbody> <tr> <td>4×2.5</td> <td>1.2MPa</td> </tr> <tr> <td>6×4</td> <td>1.2MPa</td> </tr> <tr> <td>8×5</td> <td>1.0MPa</td> </tr> <tr> <td>10×6.5</td> <td>0.8MPa</td> </tr> <tr> <td>12×8</td> <td>0.7MPa</td> </tr> <tr> <td>14×10</td> <td>0.7MPa</td> </tr> <tr> <td>16×12</td> <td>0.6MPa</td> </tr> </tbody> </table>		Type	Pressure	4×2.5	1.2MPa	6×4	1.2MPa	8×5	1.0MPa	10×6.5	0.8MPa	12×8	0.7MPa	14×10	0.7MPa	16×12	0.6MPa		
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8×5	4.44MPa																					
10×6.5	3.79MPa																					
12×8	3.79MPa																					
14×10	3.39MPa																					
16×12	2.78MPa																					

TÜV Rheinland Group

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4	Low and high temperature test	Sample in the straight condition for 1 hour at 60°C±2°C; Operating pressure: 0.6MPa; Pressure hold time: 5min; There shall be no leakage during the test.	4×2.5	There is no leakage after testing.	
			6×4	There is no leakage after testing.	
			8×5	There is no leakage after testing.	
			10×6.5	There is no leakage after testing.	
			12×8	There is no leakage after testing.	
			14×10	There is no leakage after testing.	
			16×12	There is no leakage after testing.	
			Sample in the straight condition for 1 hour at -20°C±2°C; Operating pressure: 0.6MPa; Pressure hold time: 5min; There shall be no leakage during the test.	4×2.5	There is no leakage after testing.
				6×4	There is no leakage after testing.
				8×5	There is no leakage after testing.
				10×6.5	There is no leakage after testing.
				12×8	There is no leakage after testing.
				14×10	There is no leakage after testing.
				16×12	There is no leakage after testing.

Appendix A: Test pictures



Picture 01: Burst pressure test

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