TEST REPORT

Performance Test

Report Reference No. ..... :	140310084GZU-001
	Supersede the report 140310084GZU-001 dated April 14, 2014
Tested by (name and signature) ..... :	Alan Lai
Approved by (name and signature) ..:	Blusea Dong
Date of issue ..... :	May 16, 2014
Contents ..... :	Total test report 8 pages including:
	Report text: 3 pages
	Appendix A for product photos: 2 pages
	Appendix B for instruction: 2 pages
	Revision page: 1 page
Testing Laboratory name ..... :	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address ..... :	Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
Testing location ..... :	Same as above
Applicant's name ..... :	BESTKO PRECISION LIMITED
Address ..... :	UNIT 303, BLOCK A, PO LUNG CENTRE, 11 WANG CHIU ROAD, KOWLOON BAY, HONG KONG.
Test specification:	
Standard ..... :	Clause 5.2.2 Durability of EN 1154:1996/A1:2002/AC:2006
Non-standard test method..... :	Applicant's requirement: 100,000 cycles for durability test.
Test item description ..... :	Self-closing Glass Hinge
Trade Mark ..... :	BESTKO
Model and/or type reference..... :	TJ201.HO
Manufacturer ..... :	Bestko Precision Hardware (Shenzhen) Company Limited
Rating(s) ..... :	—

CONCLUSION:

The submitted samples finished 100,000 cycles (50,000 cycles in each direction) of durability test, which specified by applicant and test result was listed as 'Performance Test Result'.

Possible test case verdicts

- Test case does not apply to the test object..... : N/A
- Test object does meet the requirement ..... : P (Pass)
- Test object does not meet the requirement ..... : F (Fail)

Testing

Date of receipt of test item..... : February 23, 2014

Date (s) of performance of tests..... : March 10, 2014 to April 4, 2014

General remarks:

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"(see remark #)" refers to a remark appended to the report.
"(see Appendix #)" refers to an appendix appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

When determining the test result, measurement uncertainty has been considered.

General product information:

Self-closing Glass Hinge, Model: TJ201.HO, double action type with adjustable speed valve, with hold open function, maximum open angle: 95°.

Refer to Appendix A 'Product photos' for detail.

Performance Test Result			
Clause	Requirement - Test	Result - Remark	Verdict
5.2.2	Durability Double-action door closers shall be able to close a test door conforming to 6.1.2 and 6.2 from opening angles of 90 ° for a minimum of 50,000 test cycles in each direction (total 100,000 cycles) according to applicant's requirement. Installation was according to Installation Manual supplied by applicant, detail of installation refer to Appendix B. Test door mass: 40 kg. Remark: the cyclic number and test door mass were determined by applicant.	Door height: 2000mm Door width: 1000mm Door thickness: 10mm During the 100,000 cycles test, the performance of self-closing hinges was stable. After 100,000 cycles: No oil leakage was found. Damping effect remained effective. No door slamming. No vertical sag of door was found. The closing time still can be adjusted from 2"65 to 9"72. Correctly hold-open at 90 degree. Correctly self-closed to 0° from 85°.	—

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Appendix A

Product photos

Closing Hinge

Damping Hinge

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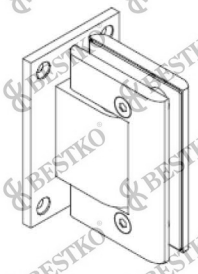
Appendix B

Instruction

BESTKO

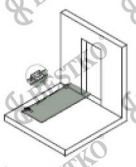
www.bestko.com

Note:
Each pair of Applause Glass Hinge consists of one damping hinge and one closing hinge, only damping hinge is adjustable at closing speed.
To ensure the best performance, Damping Hinge should always be installed below the Closing Hinge.

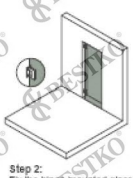


APPLAUSE GLASS HINGE

1. Closing range: 30°-0° (adjust by valve 2)
2. Closing range: 65°-30° (adjust by valve 1)
3. Closing range: 85°-65° (non-adjustable)
4. Hold-open: 90° (optional)



Step 1:
Fix the hinge onto the glass door.

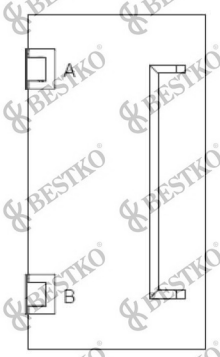


Step 2:
Fix the hinge mounted glass door onto masonry or sidepanel.

Step 3:
Open the door and adjust the closing speed by adjustable valve.

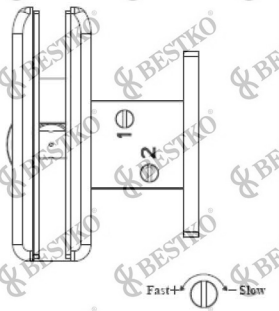
Precaution: Be careful not to loosen off the adjustment screw too far as this will render the hinge inoperable. Warranties will also be void if screw is loosened too far.

Installation positions of hinges

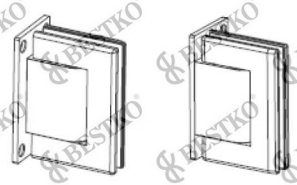


Hinge A: Closing Hinge
Hinge B: Damping Hinge (with retaining block)

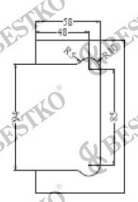
Adjustment of closing speed - damping hinge (Hinge B)

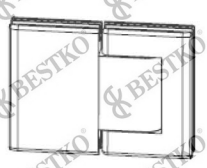


Unless strong latch action is required, always adjusts the closing speed by valve 1 only.
Please remove the plastic retaining block after mounting the door onto masonry or sidepanel.

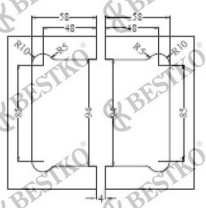


TJ201 TJ202





TJ203



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Revision Page

Revision No.	Date	Changes	Author	Reviewer
Original	April 8, 2014	First issue	Alan Lai	Blusea Dong
1	April 11, 2014	Change the description of test result.	Alan Lai	Blusea Dong
2	April 14, 2014	Add the test door dimension	Alan Lai	Blusea Dong
3	May 16, 2014	Update the instruction	Alan Lai	Blusea Dong

**********End of report**********