Number of pages in this package $_34_$ [including additional pages $_0_$] (Fill in when using printed copy as record)

TEST LOCATION:							
[]UL or Affiliat	e [x] WTDP	[]CTDP	[]TPTDP	[]TCP	[]PPP		
	[]WMT	[]TMP	[]SMT				
Company Name	Company Name Suzhou Fuerda Industry Co Ltd						
Address Wenzhou Industry Park Shuangfeng							
Taicang Suzhou, Jiangsu 215416							
China							

CLIENT INFORMATIO	DN
Company Name	Suzhou Fuerda Industry Co Ltd
Address	Wenzhou Industry Park Shuangfeng
	Taicang Suzhou, Jiangsu 215416
	China

AUDIT INFORMATION:		
[x] Description of Tests	Per Standard No.	ANSI/BHMA Edition 2008 A156.4
[x] Tests Conducted by		
+		Chen Alhua
	Printed Name	Signature
[x] UL Staff conducting or witnessing testing (WTDP, TMP, WMT only)		
[] UL Staff supervising UL Staff in training		Wilson Wang
[]Authorized Signatory (CTDP, TPTDP, TCP, PPP, SMT)	Printed Name	Signature, and include date for CTDP, TPTDP, TCP, PPP, WMT, TMP, SMT
Reviewed and accepted by qualified Project Handler		Wilson Wang
	Printed Name	Signature

TESTS	TO BE	CONDUCTED:	
Test	Done		[] Comments/Parameters
No.	+++	Test Name	[]Tests Conducted by ++
1	x	PREPARATION FOR PERFORMANCE TEST:	
2	x	BREAK-IN CYCLE TEST:	
3	x	STATIC TEST 1:	
4	x	STATIC TEST 2 TWO SPEEDS OF CONTROL:	
5	x	STATIC TEST 3:	
6	x	STATIC TEST 5 (Closing Force for Closers with Adjustment Through Range of Sizes):	

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TESTS	TESTS TO BE CONDUCTED:						
Test	Done		[] Comments/Parameters				
No.	+++	Test Name	[]Tests Conducted by ++				
7	x	STATIC TEST 6 (Door Closer Efficiency):					
8	x	STATIC TEST 7 Checking Cylinder Test:					
9	x	STATIC TEST 8 Backcheck Tests:					
10	x	STATIC TEST 11:					
11	x	INTERMEDIATE CYCLE TEST:					
12	x	INTERIM STATIC TEST:					
13	x	FINAL CYCLE TEST:					
14	x	FINAL STATIC TEST:					

Instructions -

+ - When all tests are conducted by one person, printed name and signature can be inserted here instead of including printed name and signature on each page containing data. Must indicate number of pages in the data package.
++ - When test conducted by more than one person, printed name and signature of person conducting the test can be inserted next to the test name instead of including printed name and signature on each page containing data. Must indicate number of pages in the data package.

+++ - Use of this field is optional and may be employed differently.

Special Instructions -

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded at the time the test is conducted.

Ambient		Relative		Barometric
Temperature, C	±	Humidity, %	±	Pressure, mBar ±

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Tested by:			Chen Aihua	Date	8-21

Signature

WITNESS TEST DATA PROGRAM (WTDP) INFORMATION:

Environment:	
Accommodations and Environmental conditions, including proper power source meet the requirements of the test standard or UL default criteria (ISO/IEC 17025 Clause 5.3.1, 5.3.2. 5.3.3, 5.3.4)	[x] Yes []No []N/A
Personnel:	
Lab Management shall authorize personnel to operate particular types of equipment used in testing. (ISO/IEC 17025 5.2.5)	[x] Yes []No
Equipment:	
Testing is being conducted within the test equipment calibration dates. (See Test Instrument Information Page and ISO/IEC 17025 5.5.1, 5.5.2, 5.5.4, 5.5.5, 5.5.8,)	[x] Yes []No
Calibrations for testing equipment is traceable to SI Units. Refer to 00-OP-C0032 (Calibration Certificate Analysis). (ISO/IEC 17025 5.6.2.2)	[x]Yes []No
Critical Consumables:	
Critical consumables are compliant with test standard requirements. (ISO/IEC 17025 Clause 4.6)	[]Yes []No [x]N/A
Sample Identification:	
Identification of items to be tested has been made (e.g. model no., Serial No., etc.) (See Test Sample Identification page and ISO/IEC 17025 Clause 5.8.2)	[x] Yes []No
Summary:	
The test facility [was] [was not] deemed to have the capabilities necessary to perform the tests included in	environment and this data package.

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Chen Aihua Signature Date 8-21

[] The CAS Staff or Field Services Member, as indicated below, (a competent L1, L2 or L3 in a similar CCN/Standard for a similar test method) was utilized to conduct the witnessing of tests on behalf of the project handler. (Please complete the table below to document the rationale and approval.)

Name of UL Staff conducting WTDP	CCN/Standard to be witnessed	Test(s) to be witnessed	L1, L2 or L3 Competency	Similar CCN/Standard Competency	L3 Reviewer Approval & Date (Similar CCN/Standard)

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Date 8-21

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		Test Number +, Test			
Inst.	Instrument	Title or	Function	Last Cal.	Next Cal.
ID No.	Туре	Conditioning	/Range	Date	Date
1	Weight Scale	All Test	1g/150Kg	2012.1.11	2013.1.10
2	Tape Measure	1,4,7,10,11,12,13,1 4	1mm/1000 mm	2012.1.4	2013.1.3
3	Stop Watch	2,5,8,10,11,12,13,1 4	0.58/-	2011.12.2 6	2012.12.25
4	Caliper	1,7,10,11,12,13,14	0.02mm/3 00mm	2012.4.26	2013.4.25
5	Push/Pull Gauge	1,6,7,8,11,12,13,14	1N/200N	2011.12.2 3	2012.12.22
6	Protractor	All Test	1/180°	2012.1.4	2013.1.3

TEST EQUIPMENT INFORMATION

+ - If Test Number is used, the Test Number must be identified on the data sheet pages or on the Data Sheet Package cover page.

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst.	
ID No.	Make/Model/Serial Number/Asset No.
1	Xiamen Julin/TCS-150/007259/-
2	ShuGuang/(0-1000mm)/1000-1/-
3	shenzhen Huibo/PC396/-/-
4	Guilin Guanglu/-/C1012010958/-
5	ABE/NK-200/251258956/-
6	Zhejiang/(0-180°)/LS-1/-

[]UL test equipment information is recorded on Meter Use in UL's Laboratory Project Management (LPM) database.

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Printed Name

Signature

TEST SAMPLE IDENTIFICATION:

The table below is provided to provide correlation of sample numbers to specific product related information. Refer to this table when a test identifies a test sample by "Sample No." only.

Sample Card	Date	[] Test	Sample	Manufestures Ducket Identification and Datings
NO.	Received	NO.+	NO.	Manufacturer, Product Identification and Ratings
-	-	-	-	Suzhou Fuerda Industry Co Ltd,Commercial
				Testing, Door Closer, Regular
				Installation
-	2012-2-	See	1-4	1) F1916, size 1-6, backcheck
	23	each		2) F8300, Size 1-6, backcheck
		data		3) F8900BC, size 1-6, backcheck
		page		4) F1714BC, Size 1-4, backcheck

+ - If Test Number is used, the Test Number or Numbers the sample was used in must be identified on the data sheet pages or on the Data Sheet Package cover page.

[] Sampling Procedure -

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PREPARATION FOR PERFORMANCE TEST(Models F1916,F8300,F8900BC,F1714BC)

Section 3

Weight - The test door weight shall be as specified in Table 1 below. Center of gravity of the weighted door shall be 18 in (457 mm) from the pivot center of the door for size 2 or larger closers and 15 in. (381 mm) for size 1 closers. For light screen or combination storm door closers test door weight shall be 30 lbs (13.6 kg). Door weight is for test purposes only.

TABLE	1
-------	---

Closer Size	Closing Force between t 3 in. (76 mm	Test Door Weight	
	lbf	N	
I	From 2 up to 3	From 9 up to 13	50 lbs/23 kg
II	From 3 up to 5	From 13 up to 22	80 lbs/36 kg
III	From 5 up to 8	From 22 up to 36	100 lbs/45 kg
IV	From 8 up to 11	From 36 up to 49	125 lbs/57 kg
V	From 11 up to 14	From 49 up to 62	155 lbs/70 kg
IV	14 and above	Above 62	180 LBS/82 KG

Mounting - Doors shall be hung on hinges, accurately aligned with vertical pins or on offset or center pivots, if required by the door closer. Force required to overcome friction or out of balance condition, shall be a 1/4 lbf. (1.1 N) or less, throughout the test measured perpendicular to the face of the door at a point 30 in (762 mm) from pivot center. Forces required to overcome friction or out of balance conditions are permitted to be greater than a 1/4 lbf. (1.1 N), if acceptable to closer manufacturer. Top jamb mounting shall be 2 in + 1/8 in (51 + 3 mm) reveal. Any force due to hinge friction shall not be used to adjust test data.

Actuating Means for mechanically opening the door to the 90 degree position (+ 5 degrees) and releasing shall be provided for the cycling test.

The Door Closer to be Tested - If door closer bodies of the same type are of substantially the same construction, the cycle test shall be required only for one arm application (i.e. regular arm, parallel arm, track arm, bracket mounting or top jamb mounting) under tests PT 1, PT 2, and PT 3. All other tests as applicable shall be required for all arm applications.

Door Opening Templates and Floor Marking - In preparation for the testing, attach a pointer to bottom the leading edge of door 30" from pivot center, and provide a template (Figure 4 of ANSI/BHMA A156.4) or floor markings along the swing of the pointer mounted on the test door at the following intervals: 135, 115, 90, 70, and 45 degrees. For the applicable tests, the door will be opened to the line being parallel to the leading edge of the door degree where the pointer intersects the required location. In addition, for tests which require an opening to a specified distance, mark lines (Figure 5 of ANSI/BHMA A156.4) at ½, 2, 3, 4 and 12 inches perpendicular to the door in the closed position, and 30 in. (762 mm) from the pivot center of the door.

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PREPARATION FOR PERFORMANCE TEST: (CONT'D)

Installation - The door closer shall be installed in accordance with the manufacturer's written installation instructions.

Applied Forces and Force Readings All applied forces or force readings shall be made perpendicular to the face of the door at a point 30 in (762 mm) from the pivot center of the door. Force applications and readings shall be applied by a force gauge with a combined calibration and reading accuracy within 5%.

Overload Abuse Test Weights - In closers with adjustable spring power, set the closing force to the closest increment within the values specified for the closer size in Table 1.

TABLE 2

Door Closer Size	I	II	III	IV	V	VI
Overload Test Weight	35 lbs	40 lbs	45 lbs	55 lbs	60 lbs	65 lbs
	(16 kg)	(18 kg)	(21 kg)	(25 kg)	(27 kg)	(30 kg)

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BREAK-IN CYCLE TEST: (Models F1916,F8300
,F8900BC ,F1714BC)

Section 4.1

METHOD

This test was conducted for Grades 1, 2, 3 (PT1, PT2, PT3, PT5, PT6, PT7, & Other PT Options closers).

The door closer was mounted on the test apparatus and the door closing time was regulated from 90 degrees to between 3 and 6 seconds. This time was maintained during the cycling by re-regulating if necessary. The backcheck valve was fully open, where applicable. The door closer was operated for 4,000 cycles. After the 4,000 cycles, the static tests were conducted.

RESULTS

Model F1916 The door closer [did] [did not] complete the 4,000 cycles.

Model F8300 The door closer [did] [did not] complete the 4,000 cycles.

Model F8900BC The door closer [did] [did not] complete the 4,000 cycles.

Model F1714BC The door closer [did] [did not] complete the 4,000 cycles.

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STATIC TEST 1: (Models F1916, F8300 ,F8900BC ,F1714BC)

Section 4.2

METHOD

[x] Surface or Concealed-in-Door Closers, (PT1, PT2, PT7) and Concealed-in-Floor or Overhead Concealed Closers, (PT3, PT5, PT 6)

After the 4,000 break in cycles were completed the general speed regulating valve on the closer was completely closed. The door was opened to 135° or the maximum designed opening if less than 135 degrees and release. The point at which the closing motion of the door essentially stopped (a slow creeping motion after deceleration shall be disregarded) was measured.

RESULTS

[x] Surface or Concealed-in-Door Closers, Grade 1 (PT1) and Concealed-in-Floor or Overhead Concealed Closers, Grade 1 (PT5)

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

[] Surface or Concealed-in-Door Closers, Grade 2 (PT2) and Concealed-in-Floor or Overhead Concealed Closers, Grade 2 (PT6)

Model F1916

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

Model F8300

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

Model F8900BC

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

Model F1714BC

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

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STATIC TEST 2 TWO SPEEDS OF CONTROL: (Models F1916,F8300 ,F8900BC ,F1714BC) Section 4.3

METHOD

Surface or Concealed-in-Door closers, Grades 1, 2, 3 (PT1, PT2, PT3) and Concealed-in-Floor or Overhead Concealed closers, Grades 1 (PT5)

[x] a) After the Static Test 1 the general speed regulating valve was adjusted for a normal closing motion and the latch speed regulating valve was fully opened. The door was opened to approximately 45 degrees and release. The point at which the door noticeably accelerates measured.

RESULTS

Surface or Concealed-in-Door closers, Grades 1, 2, 3 (PT1, PT2, PT3) and Concealed-in-Floor or Overhead Concealed closers, Grades 1 (PT5).

Model F1916

[x] a) The point at which the door noticeably accelerates [was] {was not} between the 12 in. (305 mm) and 2 in. (51 mm) marks.

Model F8300

 $[\underline{x}]$ a) The point at which the door noticeably accelerates [was] [was not] between the 12 in. (305 mm) and 2 in. (51 mm) marks.

Model F8900BC

 $[\underline{x}]$ a) The point at which the door noticeably accelerates [was] [was not] between the 12 in. (305 mm) and 2 in. (51 mm) marks.

Model F1714BC

 $[\underline{x}]$ a) The point at which the door noticeably accelerates [was] [was not] between the 12 in. (305 mm) and 2 in. (51 mm) marks.

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Signature

STATIC TEST 3: (Models F1916,F8300 ,F8900BC ,F1714BC)

Section 4.4

METHOD

Surface or Concealed-in-Door closers, Grades 1, 2, 3 (PT1, PT2, PT3, PT5, PT6, PT7)

Test #1 With the general and latch speed regulating valve(s) fully closed the door was opened to 90 degrees and release.

Test #2 With the general and latch speed regulating valve(s) fully opened the door was opened to 90 degrees and release.

RESULTS

Model F1916

Results #1 The door [did] [did not] take 60 seconds or longer to fully close.

Results #2 The door [did] [did not] fully close in 3 seconds or less.

Model F8300

Results #1 The door [did] [did not] take 60 seconds or longer to fully close.

Results #2 The door [did] [did not] fully close in 3 seconds or less.

Model F8900BC

Results #1 The door [did] [did not] take 60 seconds or longer to fully close.

Results #2 The door [did] [did not] fully close in 3 seconds or less.

Model F1714BC

Results #1 The door [did] [did not] take 60 seconds or longer to fully close. Results #2 The door [did] [did not] fully close in 3 seconds or less.

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Signature

Section 4.6

STATIC TEST 5 (CLOSING FORCE FOR CLOSERS WITH ADJUSTMENT THROUGH RANGE OF SIZES): (Models F1916, F8300, F8900BC, F1714BC)

METHOD

Surface or Concealed-in-Door closers, Optional (PT4H PT8M)

Test #1 The general and latch speed regulating valves were fully opened and then the closing force was adjusted to the minimum available for the closer being tested. The door was opened beyond the 3 in. (76 mm) line drawn on the floor. Holding the door open with a force meter, the door was allowed to close slowly under the power of the door closer. The greatest force exerted by the power of the door closer as the door travels between the 3 in. (76 mm) and

 $\frac{1}{2}$ in. (12.7 mm) marks was read and recorded.

Test #2 The general and latch speed regulating valves were fully opened and then the closing force was adjusted to the maximum available for the closer being tested. The door was opened beyond the 3 in. (76 mm) line drawn on the floor. Holding the door open with a force meter, the door was allowed to close slowly under the power of the door closer. Read the greatest force exerted by the power of the door closer as the door travels between the 3 in. (76 mm) and ½ in. (12.7 mm) marks and record force.

RESULTS

Model F1916

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F1916

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F8300

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

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Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F8900BC

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F1714BC

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

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STATIC TEST 6 (DOOR CLOSER EFFICIENCY): (Models F1916, F8300, F8900BC, F1714BC) Section 4.7

METHOD

Surface or Concealed-in-Door closers, Grades 1, 2, 3 (PT1, PT2, PT3) and Grades 1, 2 (PT5, PT6)

The general and latch speed regulating valves were fully opened. Using a force meter, the door was opened slowly and uniformly. The opening forces F3, F4, and F5 as the door edge passes the 2 in. (51 mm), 3 in. (76 mm), and 4 in. (102 mm) mark respectively were recorded. Then starting beyond the 4 in. (102 mm) mark, the door closer was allowed to close the door in a slow and uniform manner resisted by the force meter. The force readings F6, F7, and F8 as the door edge passed the 4 in. (102 mm), 3 in. (76 mm), and 2 in. (51 mm) marks respectively were recorded. Calculate the door closer efficiency by the following formula:

Percent Efficiency = ((F6 + F7 + F8) / (F3 + F4 + F5)) x 100.

RESULTS

	F3	F4	F5	Fб	F7	F8
Model	100	102	92	62	67	60
F1916						
Model	95	92	100	65	55	60
F8300						
Model	109	102	104	60	64	78
F8900BC						
Model	78	85	75	48	51	44
F1714BC						

Model F1916

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(63.4%)

Model F8300

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(62.7%)

Model F8900BC

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(64.1%)

Model F1714BC

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(60.1%)

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STATIC TEST 7 CHECKING CYLINDER TEST: (Models F1916, F8300, F8900BC, F1714BC) Section 4.8

METHOD

Surface, Concealed-in-Door Closers, Concealed in floor, Overhead Concealed Grades 1,2 (PT1, PT2, PT5, PT6)

The general and latch speed regulating valves were opened and then the closing force was adjusted to the maximum in accordance with the manufacturer's instructions. The door was opened beyond the 3 in. (76 mm) line drawn on the floor. The door was held open with a force meter and then allowed to close slowly under the power of the door closer. The greatest force exerted by the power of the door closer was read as the door traveled between the 3 in.

(76 mm) and $\frac{1}{2}$ in. (12.7 mm) marks, and recorded as force (F1).

The force equaled or exceeded the minimum values specified in the table below, so both the latch and speed regulating valves were fully close. The door was opened to 90 degrees, then release and the door was pushed closed with a 20 lbf (89 N) force applied 30 in (762 mm) from the pivot center.

TABLE 1

Closer	Closing Force between t	he ½ in. (12.77 mm) and	Test Door Weight
Size	3 in. (76 mr	n) mark (F1)	
	lbf	N	
I	From 2 up to 3	From 9 up to 13	50 lbs/23 kg
II	From 3 up to 5	From 13 up to 22	80 lbs/36 kg
III	From 5 up to 8	From 22 up to 36	100 lbs/45 kg
IV	From 8 up to 11	From 36 up to 49	125 lbs/57 kg
V	From 11 up to 14	From 49 up to 62	155 lbs/70 kg
VI	14 and above	Above 62	180 LBS/82 KG

RESULTS

Model F1916

The time required for the door to fully close [was] [was not] less than 8 seconds.

Model F8300

The time required for the door to fully close *[was]* [was not] less than 8 seconds.

Model F8900BC

The time required for the door to fully close [was] [was not] less than 8 seconds.

Model F1714BC

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The time required for the door to fully close {was} [was not] less than 8 seconds.

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STATIC TEST 8 BACKCHECK TESTS: (Models F1916, F8300, F8900BC, F1714BC)

Section 4.9

METHOD

[x] Adjustable Backcheck for Surface or Concealed-in-Door closers, Grades 1 and 2 only (PT1 and PT2 only), Optional (PT4D) and Adjustable Backcheck for Concealed-in-Floor or Overhead Concealed closers, Grades 1 and 2 only (PT5 and PT6 only), Optional (PT8F).

The general and latch speed regulating valves were opened and the closing force was set. The backcheck valve was fully opened and tested by the actuating means of the test apparatus by pushing the door to 50 degrees maximum door opening. The actuating means pushed with a velocity sufficient to propel the door to a minimum opening angle of 110 degrees with the backcheck valve fully open.

The backcheck valve was then adjusted to provide an observable reduction in the door opening speed.

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STATIC TEST 8 Backcheck Tests:(CONT'D)

Section 4.9

RESULTS

[x] Adjustable Backcheck for Surface or Concealed-in-Door closers, Grades 1 and 2 only (PT1 and PT2 only), Optional (PT4D) and Adjustable Backcheck for Concealed-in-Floor or Overhead Concealed closers, Grades 1 and 2 only (PT5 and PT6 only), Optional (PT8F).

Model F1916

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

Model F8300

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

Model F8900BC

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

Model F1714BC

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

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STATIC TEST 11: (Models F1916, F8300, F8900BC, F1714BC)

Section 4.12

METHOD

Overload Abuse Test for Surface or Concealed-in-Door closers, 1 and 2 only (PT1 and PT2 only)

The door closer was mounted on the test apparatus, as shown in Fig. 3 of ANSI/BHMA A156.4. The closing time was adjusted from 90 degrees to the closed position to 10 seconds. The test door weight shall be as described in Table 1 of ANSI/BHMA A156.4. The weights were attached to the cable in accordance with Table 2 ANSI/BHMA A156.4.

The door was opened and held to 90 degrees with the cable and weights attached. The door was then released allowing the weights to fall. The falling test weight was arrested when the door was 15 degrees from the closed position. The door was allowed to continue to close under its own momentum until it is arrested by the energy absorbing stop at 5 degrees or the door frame at 0 degrees, or in the case of double action closers, until it stops of its own accord. For Grade 1 (PT1) closers it was cycle 10 times and for Grade 2 (PT2) closers it was cycle 5 times.

RESULTS

F1916 The door closer [did] [did not] complete the cycles. F8300 The door closer [did] [did not] complete the cycles.

F8900BC

The door closer [did] [did not] complete the cycles.

F1714BC

The door closer [did] [did not] complete the cycles.

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Section 5

INTERMEDIATE CYCLE TEST: (Models F1916, F8300, F8900BC, F1714BC)

METHOD

[x] For Surface or Concealed-in-Door Closers with Back check, Grades 1, 2, 3
(PT1, PT2, PT3) and Concealed-in-Floor or Overhead Concealed Closers with
Back check, Grades 1, 2, 3 (PT5, PT6, PT7)

1) Both the general and latch speed regulating valves were opened and the closing force was set. The back check valve was opened and tested by the actuating means of the test apparatus pushing the door to the 50 degrees maximum door opening. The actuating means did push with a velocity sufficient to propel the door to a minimum opening angle of 110 degrees with the back check valve fully open.

The back check valve was adjusted to provide an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door shall be completely stopped at a maximum of 90 degrees. The door closer was cycled as listed below: [x] For Grade 1 (PT1, PT5), run 100,000 cycles with the back check control functional.

2) Both the general and latch speed regulating valves were opened, the back check control was turned off, and the spring force adjusted. The door was mechanically opened to 90 degrees and release allowing the door closer to close the door. One opening and closing constitutes one cycle. Cycle door with the door closer maintaining control over the door for: [x] For Grade 1 (PT1, PT5), run 400,000 cycles with back check control disengaged for a total of 504,000 cycles.

INTERMEDIATE CYCLE TEST: (CONT'D)

Section 5

RESULTS

Model F1916

The door closer [did] [did not] complete the cycles.

Model F8300

The door closer [did] [did not] complete the cycles.

Model F8900BC

The door closer [did] [did not] complete the cycles.

Model F1714BC

The door closer [did] [did not] complete the cycles.

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Note on Spring Force Adjustment: Once spring force is set, adjust all speed regulating valves for a door closing time from a 90 degree opening to between 3 and 6 seconds. Maintain this time during the cycling by re-regulating if necessary.

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Section 6

INTERIM STATIC TEST: (Models F1916, F8300 ,F8900BC, F1714BC)

METHOD

The following tests were repeated, as applicable to the closer type:

[x] Range of Checking Control (4.2), [x] Adjustment Through Range of Sizes (4.6), [x] Door Closer Efficiency (4.7), [x] Checking Cylinder Test (4.8),

[x] Backcheck Tests (4.9),

RESULTS

[x] Range of Checking Control (4.2): [x] Surface or Concealed-in-Door Closers, Grade 1 (PT1) and Concealed-in-Floor or Overhead Concealed Closers, Grade 1 (PT5)

Models F1916

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

Models F8300

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

Models F8900BC

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

Models F1714BC

The point at which the closing motion of the door essentially stopped [was] [was not] more than 20° from release point.

[x] Adjustment Through Range of Sizes (4.6)

Models F1916

Test #1 The recorded force [was] {was not} less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] {was not} equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

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Models F8300

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Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Models F8900BC

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Models F1714BC

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

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INTERIM STATIC TEST: (CONT'D)

[x] Door Closer Efficiency (4.7),

	F3	F4	F5	Fб	F7	F8
Model	98	102	92	63	66	61
F1916						
Model	95	92	98	65	57	61
F8300						
Model	105	100	95	70	68	72
F8900BC						
Model	76	85	75	48	51	45
F1714BC						

Model F1916

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(65.1%)

Model F8300

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(64.2%)

Model F8900BC

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(70%)

Model F1714BC

The door closer efficiency [was] [was not] a minimum of 50% for sizes I and II and 60% for sizes III through VI.(61.0%)

[x] Checking Cylinder Test (4.8), Model F1916

The time required for the door to fully close *[was]* [was not] less than 8 seconds.

Model F8300

The time required for the door to fully close **[was]** [was not] less than 8 seconds.

Model F8900BC

The time required for the door to fully close **[was]** [was not] less than 8 seconds.

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Model F1714BC

The time required for the door to fully close *[was]* [was not] less than 8 seconds.

[x] Backcheck Tests (4.9), [x] Adjustable Backcheck for Surface or Concealed-in-Door closers, Grades 1 and 2 only (PT1 and PT2 only), Optional (PT4D) and Adjustable Backcheck for Concealed-in-Floor or Overhead Concealed closers, Grades 1 and 2 only (PT5 and PT6 only), Optional (PT8F).

Model F1916

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

Model F8300

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

Model F8900BC

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

Model F1714BC

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door (did) (did not) completely stopped at a maximum of 90 degrees.

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Section 7

FINAL CYCLE TEST: (Models F1916, F8300
,F8900BC, F1714BC)

METHOD

[x] For Surface or Concealed-in-Door Closers with Back check, Grades 1, 2, 3 (PT1, PT2, PT3) and Concealed-in-Floor or Overhead Concealed Closers with Backcheck, Grades 1, 2, 3 (PT5, PT6, PT7)

The general and latch speed regulating valves were opened, the back check control was turned off and the spring force was adjusted. The door was mechanically opened to 90 degrees and released, which allowed the door closer to close the door. One opening and closing constitutes one cycle.

[x] For Grade 1 (PT1, PT5), run 996,000 cycles for a total of 1,500,000 cycles.

RESULTS

Models F1916

The door closer [did] [did not] complete the cycles.

Model F8300

The door closer [did] [did not] complete the cycles.

Model F8900BC

The door closer [did] [did not] complete the cycles.

Model F1714BC

The door closer [did] [did not] complete the cycles.

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FINAL STATIC ,F8900BC ,F1	TEST: (Models F1916,F8 714BC)	8300				Section 8	
		METH	IOD				
 [x] Range of Checking Control (4.2), [x] Two speeds of closing control (4.3) [x] Adjustable Closing Speed (4.4) [x] Adjustment Through Range of Sizes (4.6), [x] Door Closer Efficiency (4.7), [x] Checking Cylinder Test (4.8), [x] Backcheck Tests (4.9), [x] Overload Abuse Test for Surface or Concealed-in-Door closers (4.12), 							
		RESU	LTS				
<pre>[x] Range of [x] Surface Floor or Ove</pre>	Checking Control (4.2 or Concealed-in-Door C rhead Concealed Closers): losers s, Gra	s, Grade 1 (P1 de 1 (PT5)	[1] and Co	onceal	ed-in-	
Models F1916							
The point at [was not] mo	which the closing mot: re than 20° from releas	ion of se poi	the door ess .nt.	sentially	stopp	bed [was]	
Model F8300							
The point at [was not] mo	which the closing mot: re than 20° from releas	ion of se poi	the door ess .nt.	sentially	stopp	bed [was]	
Model F8900B	С						

The point at which the closing motion of the door essentially stopped $\prescript{was}\prescript{was}\prescript{was}\prescript{abs}\prescript{was}\prescript{abs}\prescript{was}\prescript{abs}\prescrip$

Model F1714BC

The point at which the closing motion of the door essentially stopped **[was]** [was not] more than 20° from release point.

[x] Two speeds of closing control (4.3) Surface or Concealed-in-Door closers, Grades 1, 2, 3 (PT1, PT2, PT3) and Concealed-in-Floor or Overhead Concealed closers, Grades 1 (PT5).

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Page _ Project No. 11CA65200 File SV19158 2012-2-23-Tested by: Chen Aihua Date 8-21 Printed Name Signature FINAL STATIC TEST: (CONT'D) Section 8 Model F1916 [x] a) The point at which the door noticeably accelerates [was] {was not} between the 12 in. (305 mm) and 2 in. (51 mm) marks. Model F8300 [x] a) The point at which the door noticeably accelerates [was] [was not] between the 12 in. (305 mm) and 2 in. (51 mm) marks. Model F8900BC [x] a) The point at which the door noticeably accelerates [was] [was not] between the 12 in. (305 mm) and 2 in. (51 mm) marks. Model F1714BC [x] a) The point at which the door noticeably accelerates [was] {was not} between the 12 in. (305 mm) and 2 in. (51 mm) marks. [x] Adjustable Closing Speed (4.4) Model F1916 Results #1 The door [did] [did not] take 60 seconds or longer to fully close. Results #2 The door [did] [did not] fully close in 3 seconds or less. Model F8300 Results #1 The door [did] [did not] take 60 seconds or longer to fully close. Results #2 The door [did] [did not] fully close in 3 seconds or less. Model F8900BC Results #1 The door [did] [did not] take 60 seconds or longer to fully close. Results #2 The door [did] [did not] fully close in 3 seconds or less. Model F1714BC Results #1 The door [did] [did not] take 60 seconds or longer to fully close. Results #2 The door [did] [did not] fully close in 3 seconds or less. ANS-00305-FUOR-DataSheet-2004 Form Issued: 2007-04-02 Form Page 29 Form Revised: 2009-01-02

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[x] Adjustment Through Range of Sizes (4.6)

Model F1916

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F1916

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F8300

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F8900BC

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer.

Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

Model F1714BC

Test #1 The recorded force [was] [was not] less than the maximum value specified in Table 1 for the minimum size closer specified by the manufacturer. Test #2 The recorded force [was] [was not] equal to, or greater than the minimum value specified in Table 1 for the maximum size closer specified by the manufacturer.

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[x] Door Closer Efficiency (4.7),

	F3	F4	F5	Fб	F7	F8
Model	95	93	90	70	72	70
F1916						
Model	78	75	76	59	58	63
F8300						
Model	110	97	95	62	76	76
F8900BC						
Model	52	60	52	47	47	40
F1714BC						

Model F1916

The door closer efficiency [was] {was not] a minimum of 50% for size I and II and 60% for sizes III through VI.(76%)

Model F8300

The door closer efficiency [was] [was not] a minimum of 50% for size I and II and 60% for sizes III through VI.(78.6%)

Model F8900BC

The door closer efficiency [was] {was not} a minimum of 50% for size I and II and 60% for sizes III through VI.(70%)

Model F1714BC

The door closer efficiency [was] {was not} a minimum of 50% for size I and II and 60% for sizes III through VI.(81%)

[x] Checking Cylinder Test (4.8),

Model F1916

The time required for the door to fully close [was] [was not] less than 8 seconds.

Model F8300

The time required for the door to fully close [was] [was not] less than 8 seconds.

Model F8900BC

The time required for the door to fully close [was] [was not] less than 8 seconds.

Model F1714BC

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The time required for the door to fully close *[was]* [was not] less than 8 seconds.

[x] Backcheck Tests (4.9), [x] Adjustable Backcheck for Surface or Concealed-in-Door closers, Grades 1 and 2 only (PT1 and PT2 only), Optional (PT4D) and Adjustable Backcheck for Concealed-in-Floor or Overhead Concealed closers, Grades 1 and 2 only (PT5 and PT6 only), Optional (PT8F).

Model F1916

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door did) (did not) completely stopped at a maximum of 90 degrees.

Model F8300

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door did) (did not) completely stopped at a maximum of 90 degrees.

Model F8900BC

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door did) (did not) completely stopped at a maximum of 90 degrees.

Model F1714BC

When the backcheck valve was then adjusted the closer [did] [did not] have an observable reduction in the door opening speed between 60 degrees and 85 degrees of door opening and the door did) (did not) completely stopped at a maximum of 90 degrees.

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FINAL STATIC	TEST: (CONT'))			Section 8
[x] Overload	Abuse Test fo	or Surface or	Concealed-i	n-Door closers (4	4.12)
Model F1916					
The door clo	ser [did] [di d	d not] complet	e the cycles	3.	
Model F8300					
The door clo	ser [did] [di d	d not] complet	e the cycles	3.	
Model F8900B	2				
The door clo	ser [did] [di d	l not] complet	e the cycles	3.	
Model F1714B	2				
The door clo	ser [did] [di d	d not] complet	e the cycles	3.	

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