

Summary of Test Results

Reference no. : BC-SUMMARY-2020-165

Customer : Gate Way Valve & Fitting Ltd.

Address : Flat A1, 4/F., Galaxy Factory Building, 25-27 Luk Hop Street, San Po Kong, Kowloon, H. K.

Sample description : Ball Float Valve

Manufacturer : GENWEC WASHROOM, S. L.

Brand name : VALVULAS CT

Body marking : CT AISI 316L

Model no. : 200A-RPH

Origin : Spain

Sample submitted by : Gate Way Valve & Fitting Ltd.

Test standard : BS 1212-1 : 1990 / BS EN 10088-1 : 2014

Test period : 21 August to 27 November 2020

A) Sample List

| Size (mm) | Inch | Specimen no. |
|-----------|--------|--------------------|
| 20 | 3/4" | BC0200811-002-MISL |
| 25 | 1" | BC0200811-003-MISL |
| 32 | 1-1/4" | BC0200811-004-MISL |
| 40 | 1-1/2" | BC0200811-005-MISL |
| 50 | 2" | BC0200811-006-MISL |

B) Test Item**1) Dimensions Check (BS 1212-1 : 1990 Section 3)**

| Size (mm) | Inch | Test results | Castco LRN |
|-----------|--------|--------------|--------------------|
| 20 | 3/4" | Passed | BC0200811-001-MISL |
| 25 | 1" | Passed | |
| 32 | 1-1/4" | Passed | |
| 40 | 1-1/2" | Passed | |
| 50 | 2" | Passed | |

2) Hydraulic Pressure Test and Shut-off Test (BS 1212-1 : 1990 Clause 24)

| Size (mm) | Inch | Test results | Castco LRN |
|-----------|--------|--------------|--------------------|
| 20 | 3/4" | Passed | BC0200811-001-MISL |
| 25 | 1" | Passed | |
| 32 | 1-1/4" | Passed | |
| 40 | 1-1/2" | Passed | |
| 50 | 2" | Passed | |

3) Chemical Composition (Body) (BS EN 10088-1 : 2014 Table 2 Grade 1.4401 (316))

| Size (mm) | Inch | Test results | Castco LRN |
|-----------|--------|--------------|--------------|
| 20 | 3/4" | Passed | MS0200827-35 |
| 32 | 1-1/4" | Passed | MS0200827-39 |
| 50 | 2" | Passed | MS0200827-43 |

Summary of Test Results

Reference no. : BC-SUMMARY-2020-165

B) Test Item (con't)

4) Chemical Composition (Seat (Piston)) (BS EN 10088-1 : 2014 Table 2 Grade 1.4401 (316))

| Size (mm) | Inch | Test results | Castco LRN |
|-----------|--------|--------------|--------------|
| 20 | 3/4" | Passed | MS0200827-36 |
| 32 | 1-1/4" | Passed | MS0200827-40 |
| 50 | 2" | Passed | MS0200827-44 |

5) Chemical Composition (Lever) (BS EN 10088-1 : 2014 Table 2 Grade 1.4401 (316))

| Size (mm) | Inch | Test results | Castco LRN |
|-----------|--------|--------------|--------------|
| 20 | 3/4" | Passed | MS0200827-37 |
| 32 | 1-1/4" | Passed | MS0200827-41 |
| 50 | 2" | Passed | MS0200827-45 |

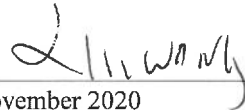
6) Chemical Composition (Float Ball) (BS EN 10088-1 : 2014 Table 2 Grade 1.4401 (316))

| Size (mm) | Inch | Test results | Castco LRN |
|-----------|--------|--------------|--------------|
| 20 | 3/4" | Passed | MS0200827-38 |
| 32 | 1-1/4" | Passed | MS0200827-42 |
| 50 | 2" | Passed | MS0200827-46 |

Prepare by : _____
Date : 28 November 2020

 **FU HO MAN**
Assistant Technical Manager

Review by : _____
Date : 28 November 2020

 **WONG KA MAN**
Senior Manager

Test Report
Float Operated Valves - Dimensions Check
(BS 1212 : Part 1 : 1990 Section 3)

Date of issue : 28 November 2020

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Castco LRN : BC0200811-001-MISL

Details as supplied by customer

Customer : Gate Way Valve & Fitting Ltd.

Customer's ref. no. : - -

Address : Flat A1, 4/F., Galaxy Factory Building, 25-27 Luk Hop Street, San Po Kong, Kowloon, H. K.

Contract no. : - -

Job title : - -

Sample description : Ball Float Valve

Manufacturer : GENWEC WASHROOM, S. L.

Brand name : VALVULAS CT

Body marking : CT AISI 316L

Model no. : 200A-RPH

Origin : Spain

Sample submitted by : Gate Way Valve & Fitting Ltd.

Laboratory test results

Date of sample received : 11 August 2020

Date of test : 27 November 2020

| Specimen no. | | BC0200811-002-MISL | BC0200811-003-MISL | BC0200811-004-MISL | BC0200811-005-MISL | BC0200811-006-MISL |
|--------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Size (mm) | | 20 | 25 | 32 | 40 | 50 |
| Inch | | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
| A (mm) | Measured mean value | 45 | 46 | 53 | 58 | 70 |
| | Requirement | 40 to 50 | 42 to 52 | 48 to 58 | 54 to 64 | 66 to 76 |
| B (mm) | Measured mean value | 47.03 | 47.01 | 46.96 | 84.40 | 84.58 |
| | Requirement | 42 to 52 | 42 to 52 | 42 to 52 | 81 to 91 | 81 to 91 |
| B1 (mm) | Measured mean value | 46.40 | 46.50 | 46.36 | 85.38 | 85.21 |
| | Requirement | 41.5 to 51.5 | 41.5 to 51.5 | 41.5 to 51.5 | 81 to 91 | 81 to 91 |
| ØD (mm) | Measured mean value | 165 | 164 | 162 | 204 | 201 |
| | Requirement | 155 to 165 | 155 to 165 | 155 to 165 | 195 to 205 | 195 to 205 |
| d (mm) | Measured mean value | 8.03 | 7.92 | 7.92 | 12.04 | 12.02 |
| | Requirement | 7 to 9 | 7 to 9 | 7 to 9 | 11 to 13 | 11 to 13 |
| Ød2 (mm) | Measured mean value | 18.90 | 24.43 | 31.93 | 38.16 | 48.85 |
| | Requirement | 18 to 22 | 23 to 27 | 30.5 to 34.5 | 36 to 40 | 47 to 51 |
| H (mm) | Measured mean value | 63.57 | 63.51 | 63.49 | 120.87 | 121.11 |
| | Requirement | 61.5 to 65.5 | 61.5 to 65.5 | 61.5 to 65.5 | 119 to 123 | 119 to 123 |

Test Report
Float Operated Valves - Dimensions Check
(BS 1212 : Part 1 : 1990 Section 3)

Date of issue : 28 November 2020

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Castco LRN : BC0200811-001-MISL

Laboratory test results (con't)

| Specimen no. | | BC0200811-002-MISL | BC0200811-003-MISL | BC0200811-004-MISL | BC0200811-005-MISL | BC0200811-006-MISL |
|--------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Size (mm) | | 20 | 25 | 32 | 40 | 50 |
| Inch | | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
| H2 (mm) | Measured mean value | 450 | 610 | 640 | 810 | 815 |
| L (mm) | Measured mean value | 480 | 685 | 690 | 890 | 910 |
| L1 (mm) | Measured mean value | 405 | 625 | 625 | 780 | 790 |

Remark(s) :

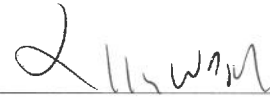
1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS 1212 : Part 1 : 1990 Section 3 (effect of measurement uncertainty has not been taken into account).

Checked by : _____



FU HO MAN
Assistant Technical Manager

Certified by : _____



WONG KA MAN
Senior Manager

Test Report

Float Operated Valves - Hydraulic Pressure and Shut-off Pressure Test
(BS 1212 : Part 1 : 1990 Clause 24 and Appendix A)

Date of issue : 28 November 2020

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Castco LRN : BC0200811-001-MISL

Details as supplied by customer

Customer : Gate Way Valve & Fitting Ltd.

Customer's ref. no. : - -

Address : Flat A1, 4/F., Galaxy Factory Building, 25-27 Luk Hop Street, San Po Kong, Kowloon, H. K.

Contract no. : - -

Job title : - -

Sample description : Ball Float Valve

Manufacturer : GENWEC WASHROOM, S. L.

Brand name : VALVULAS CT

Body marking : CT AISI 316L

Model no. : 200A-RPH

Origin : Spain

Sample submitted by : Gate Way Valve & Fitting Ltd.

Laboratory test results

Date of sample received : 11 August 2020

Date of test : 27 November 2020

| Specimen no. | BC0200811-002-MISL | BC0200811-003-MISL | BC0200811-004-MISL | BC0200811-005-MISL | BC0200811-006-MISL |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Size (mm) | 20 | 25 | 32 | 40 | 50 |
| Inch | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |

A. Hydraulic Pressure Test (BS 1212 : Part 1 : 1990 Clause 24.1)

| | | | | | |
|-----------------------|-----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Apply pressure (bar) | 20 | 20 | 20 | 20 | 20 |
| Maintain period (min) | 15 | 15 | 15 | 15 | 15 |
| Observation | No leakage was observed | No leakage was observed | No leakage was observed | No leakage was observed | No leakage was observed |
| Requirement | Without leaking or sweating | | | | |

B. Shut-off Pressure Test (BS 1212 : Part 1 : 1990 Clause 24.2)

| | | | | | |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Apply pressure (bar) | 14 | 14 | 14 | 14 | 14 |
| Observation | No leakage was observed | No leakage was observed | No leakage was observed | No leakage was observed | No leakage was observed |
| Requirement | Shall not leak | | | | |

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS 1212 : Part 1 : 1990 Clause 24 (effect of measurement uncertainty has not been taken into account).

Checked by :  **FU HO MAN**
Assistant Technical ManagerCertified by :  **WONG KA MAN**
Senior Manager

Test Report
Float Operated Valves - Dimensions Check
(BS 1212 : Part 1 : 1990 Section 3)

Date of issue : 28 November 2020

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Castco LRN : BC0200811-001-MISL

Appendix A



BC0200811-002-MISL



BC0200811-003-MISL



BC0200811-004-MISL



BC0200811-005-MISL



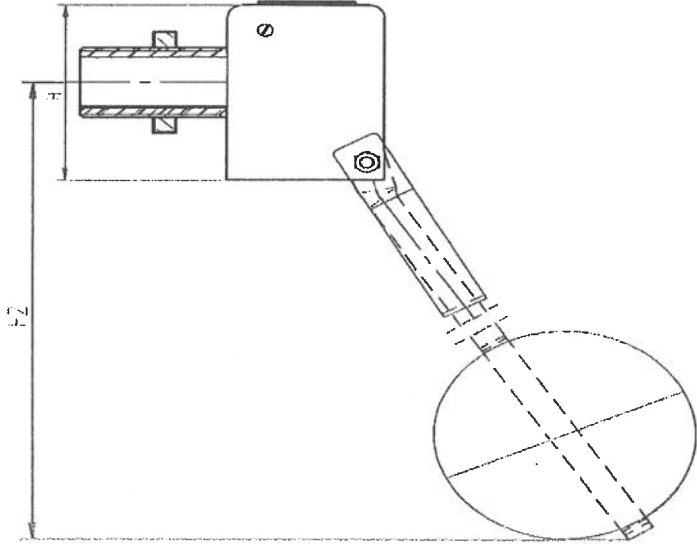
BC0200811-006-MISL

Test Report
Float Operated Valves - Dimensions Check
(BS 1212 : Part 1 : 1990 Section 3)

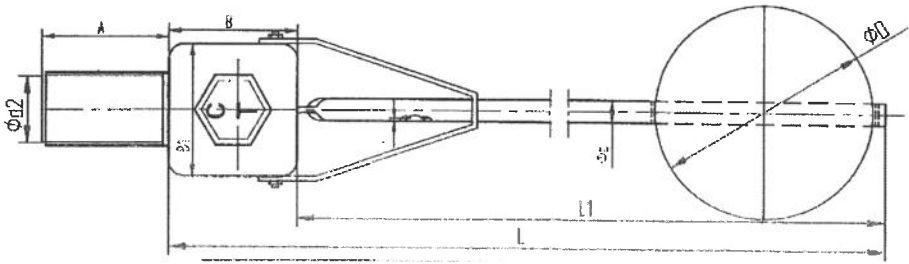
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Castco LRN : BC0200811-001-MISL

Appendix B



Dimensions Figure-1



Dimensions Figure-2

End of Report

Form no. : BC_FLOAT VALVE_DIM_BSI1212-1-1990_T_dd_20/06/2020