

香港粉嶺安居街33號 香港粉嶺安全街29A號 E-mail: info@castco.com.hk

33, On Kui Street, Fanling, Hong Kong. 29A, On Chuen Street, Fanling, Hong Kong. Website: www.castco.com.hk

Tel: 2597 8333

Fax: 2597 8399



# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 2

Castco LRN: MS0200827-35

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN20 Stainless Steel Ball Float Valve (Body)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-002-MISL / Origin: Spain

Sample Identification No.:

-- / Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

1) BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Assistant Technical Manager

Approved Signatory:

Cheng Chi Fai

Senior Manager



## **CASTCO TESTING CENTRE LIMITED**

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# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-35 Page 2 of 2

Chemical Analysis		Result
1) Total Carbon Content	С%	0.028
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.91
<sup>2)</sup> Manganese	Mn %	1.37
<sup>2)</sup> Molybdenum	Мо %	2.12
<sup>2)</sup> Nickel	Ni %	10.05
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.393
<sup>3)</sup> Nitrogen	N %	0.039

**End of Report** 



## **CASTCO TESTING CENTRE LIMITED**

# Appendix A

#### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-35 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:			MS0200827-35		
Sample I.D. No.:				/ Model No.	: 200A-RPH
Sample Description :			DN20 Stainless Stee (Bod		
Location of Worl	k :			/ Brand Name: V	/ALVULAS CT
Specimen No.:				BC0200811-002-MI	SL / Origin: Spain
Manufacturer :				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.028	Within limit
Sulfur	S	0.015 max.	%	<0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	16.91	Within limit
Manganese	Mn	2.00 max.	%	1.37	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.12	Within limit
Nickel	Ni	10.0 to 13.0	%	10.05	Within limit
Phosphorus	P	0.045 max.	%	0.034	Within limit
Silicon	Si	1.00 max.	%	0.393	Within limit
Nitrogen	N	0.10 max.	%	0.039	Within limit

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



#### CASTCO TESTING CENTRE LIMITED

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Website: www.castco.com.hk

# **Test Report**

**Chemical Analysis of Steel** 

Date	of issue:	15-09-2020
Date	or issue.	13-07-2020

Page 1 of 2

Castco LRN: MS0200827-36

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN20 Stainless Steel Ball Float Valve (Seat(Piston))

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-002-MISL / Origin: Spain

Sample Identification No.: --/ Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Assistant Technical Manager

Approved Signatory

Cheng Chi Fai Senior Manager



#### **CASTCO TESTING CENTRE LIMITED**

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# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-36

Chemical Analysis		Result
1) Total Carbon Content	С%	.0.026
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.95
<sup>2)</sup> Manganese	Mn %	1.38
<sup>2)</sup> Molybdenum	Mo %	2.04
<sup>2)</sup> Nickel	Ni %	10.08
<sup>2)</sup> Phosphorus	Р%	0.033
<sup>2)</sup> Silicon	Si %	0.385
3) Nitrogen	N %	0.038

**End of Report** 



## **CASTCO TESTING CENTRE LIMITED**

# Appendix A

#### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-36 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:			MS0200827-36		
Sample I.D. No.:				/ Model No.: 200A-RPH	
Sample Description :			DN20 Stainless Stee (Seat(Pi		
Location of Worl	κ:			/ Brand Name: V	/ALVULAS CT
Specimen No.:				BC0200811-002-MI	SL / Origin: Spain
Manufacturer:				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.026	Within limit
Sulfur	S	0.015 max.	%	< 0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	16.95	Within limit
Manganese	Mn	2.00 max.	%	1.38	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.04	Within limit
Nickel	Ni	10.0 to 13.0	%	10.08	Within limit
Phosphorus	P	0.045 max.	%	0.033	Within limit
Silicon	Si	1.00 max.	%	0.385	Within limit
Nitrogen	N	0.10 max.	%	0.038	Within limit

#### Remarks:

Test results only relate to the specimen tested. I.

II.



## **CASTCO TESTING CENTRE LIMITED**

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# **Test Report**

**Chemical Analysis of Steel** 

Page 1 of 2

Castco LRN: MS0200827-37

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN20 Stainless Steel Ball Float Valve (Lever)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-002-MISL / Origin: Spain

Sample Identification No.: --/ Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Assistant Technical Manager

Approved Signatory:

Cheng Chi Fai Senior Manager



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# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-37

Chemical Analysis		Result
1) Total Carbon Content	С%	0.028
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.09
<sup>2)</sup> Manganese	Mn %	1.39
<sup>2)</sup> Molybdenum	Mo %	2.08
<sup>2)</sup> Nickel	Ni %	10.17
<sup>2)</sup> Phosphorus	Р%	0.033
<sup>2)</sup> Silicon	Si %	0.387
3) Nitrogen	N %	0.038

**End of Report** 



# ASTCO 佳力高試驗中心有限公司

# **CASTCO TESTING CENTRE LIMITED**

# Appendix A

#### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Gate Way Valve & Fitting Limited

Name of Customer: Job Title:

Contract No.:

Page 1 of 1

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN: MS0200827-37

Duto of Received					
Castco LRN:			MS0200827-37		
Sample I.D. No.:				/ Model No.	: 200A-RPH
Sample Descript	ion:			DN20 Stainless Stee (Lev	
Location of Wor	k:			/ Brand Name: V	ALVULAS CT
Specimen No.:				BC0200811-002-MI	SL / Origin: Spain
Manufacturer:				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.028	Within limit
Sulfur	S	0.015 max.	%	< 0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.09	Within limit
Manganese	Mn	2.00 max.	%	1.39	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.08	Within limit
Nickel	Ni	10.0 to 13.0	%	10.17	Within limit
Phosphorus	P	0.045 max.	%	0.033	Within limit
Silicon	Si	1.00 max.	%	0.387	Within limit
Nitrogen	N	0.10 max.	%	0.038	Within limit

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



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Website: www.castco.com.hk

# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 2 Castco LRN: MS0200827-38

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received:

27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN20 Stainless Steel Ball Float Valve (Float Ball)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-002-MISL / Origin: Spain

Sample Identification No.:

-- / Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Lau Hin Yat

Assistant Technical Manager

Approved Signatory

Cheng Chi Fai

Senior Manager



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# **Test Report**

**Chemical Analysis of Steel** 

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-38

Chemical Analysis		Result
1) Total Carbon Content	С%	0.029
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.93
<sup>2)</sup> Manganese	Mn %	1.38
<sup>2)</sup> Molybdenum	Mo %	2.03
<sup>2)</sup> Nickel	Ni %	10.07
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.390
3) Nitrogen	N %	0.037

**End of Report** 



#### **CASTCO TESTING CENTRE LIMITED**

# Appendix A

### Summary of Chemical Analysis of Steel

Date of issue: 15-09-2020

Castco LRN: MS0200827-38 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

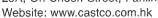
Castco LRN:			MS0200827-38			
Sample I.D. No.:				/ Model No.	/ Model No.: 200A-RPH	
Sample Description :			DN20 Stainless Stee (Float			
Location of Wor	k:			/ Brand Name: V	VALVULAS CT	
Specimen No.:				BC0200811-002-MI	SL / Origin: Spain	
Manufacturer:				GENWEC WAS	HROOM, S.L.	
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit			
Carbon	С	0.07 max.	%	0.029	Within limit	
Sulfur	S	0.015 max.	%	< 0.0020	Within limit	
Chromium	Cr	16.5 to 18.5	%	16.93	Within limit	
Manganese	Mn	2.00 max.	%	1.38	Within limit	
Molybdenum	Mo	2.00 to 2.50	%	2.03	Within limit	
Nickel	Ni	10.0 to 13.0	%	10.07	Within limit	
Phosphorus	P	0.045 max.	%	0.034	Within limit	
Silicon	Si	1.00 max.	%	0.390	Within limit	
Nitrogen	N	0.10 max.	%	0.037	Within limit	

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



#### CASTCO TESTING CENTRE LIMITED

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# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 2

Castco LRN: MS0200827-39

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received:

27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN32 Stainless Steel Ball Float Valve (Body)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-004-MISL / Origin: Spain

Sample Identification No.:

-- / Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

i) BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Approved Signatory

Cheng Chi Fai

Senior Manager



香港粉嶺安居街33號 香港粉嶺安全街29A號 E-mail: info@castco.com.hk 33, On Kui Street, Fanling, Hong Kong. 29A, On Chuen Street, Fanling, Hong Kong. Website: www.castco.com.hk

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# **Test Report**

### **Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-39

Chemical Analysis	Result	
1) Total Carbon Content	C %	0.027
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.92
<sup>2)</sup> Manganese	Mn %	1.38
<sup>2)</sup> Molybdenum	Mo %	2.03
<sup>2)</sup> Nickel	Ni %	10.07
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.386
3) Nitrogen	N %	0.037

End of Report



# ASTCO 佳力高試驗中心有限公司

## **CASTCO TESTING CENTRE LIMITED**

# Appendix A

### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 1 Castco LRN: MS0200827-39

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.: 27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:				MS0200827-39	
Sample I.D. No.:				/ Model No.	: 200A-RPH
Sample Descripti	ion:			DN32 Stainless Stee (Bod	
Location of Worl	k :			/ Brand Name: V	ALVULAS CT
Specimen No.:				BC0200811-004-MI	SL / Origin: Spain
Manufacturer:				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.027	Within limit
Sulfur	S	0.015 max.	%	< 0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	16.92	Within limit
Manganese	Mn	2.00 max.	%	1.38	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.03	Within limit
Nickel	Ni	10.0 to 13.0	%	10.07	Within limit
Phosphorus	P	0.045 max.	%	0.034	Within limit
Silicon	Si	1.00 max.	%	0.386	Within limit
Nitrogen	N	0.10 max.	%	0.037	Within limit

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



#### CASTCO TESTING CENTRE LIMITED

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Test Report

# **Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 2

Castco LRN: MS0200827-40

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN32 Stainless Steel Ball Float Valve (Seat(Piston))

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-004-MISL / Origin: Spain

Sample Identification No.: --/ Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat Assistant Technical Manager Approved Signatory

Cheng Chi Fai

Senior Manager



#### **CASTCO TESTING CENTRE LIMITED**

香港粉嶺安居街33號 香港粉嶺安全街29A號 E-mail: info@castco.com.hk

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Tel: 2597 8333 Fax: 2597 8399



## **Test Report**

#### **Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 2 of 2

Castco LRN: MS0200827-40

Chemical Analysis		Result
1) Total Carbon Content	C %	0.027
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.37
<sup>2)</sup> Manganese	Mn %	1.42
<sup>2)</sup> Molybdenum	Mo %	2.06
<sup>2)</sup> Nickel	Ni %	10.30
<sup>2)</sup> Phosphorus	Р%	0.033
<sup>2)</sup> Silicon	Si %	0.378
<sup>3)</sup> Nitrogen	N %	0.038

**End of Report** 



# ASTCO 佳力高試驗中心有限公司

# **CASTCO TESTING CENTRE LIMITED**

# Appendix A

#### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-40 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title: Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

			_		
Castco LRN:			MS0200827-40		
Sample I.D. No.:				/ Model No.: 200A-RPH	
Sample Descripti	on ·			DN32 Stainless Stee	
Sumpre 2 to tripe				(Seat(Pi	ston))
Location of Worl	ς:			/ Brand Name: V	ALVULAS CT
Specimen No.:				BC0200811-004-MI	SL / Origin: Spain
Manufacturer:				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.027	Within limit
Sulfur	S	0.015 max.	%	< 0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.37	Within limit
Manganese	Mn	2.00 max.	%	1.42	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.06	Within limit
Nickel	Ni	10.0 to 13.0	%	10.30	Within limit
Phosphorus	P	0.045 max.	%	0.033	Within limit
Silicon	Si	1.00 max.	%	0.378	Within limit
Nitrogen	N	0.10 max.	%	0.038	Within limit

- Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



### CASTCO TESTING CENTRE LIMITED

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Website: www.castco.com.hk

# **Test Report**

**Chemical Analysis of Steel** 

Date of issue: 15-09-2020

Page 1 of 2

Castco LRN: MS0200827-41

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN32 Stainless Steel Ball Float Valve (Lever)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-004-MISL / Origin: Spain

Sample Identification No.: --/ Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Assistant Technical Manager

Approved Signatory:

Cheng Chi Fai

Senior Manager



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# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-41 Page 2 of 2

Chemical Analysis		Result
1) Total Carbon Content	С%	0.026
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.90
<sup>2)</sup> Manganese	Mn %	1.38
<sup>2)</sup> Molybdenum	Mo %	2.03
<sup>2)</sup> Nickel	Ni %	10.07
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.390
3) Nitrogen	N %	0.038

**End of Report** 



# CASTCO 佳力高試驗中心有限公司

# **CASTCO TESTING CENTRE LIMITED**

# Appendix A

### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-41 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title: Contract No.: Customer's Ref. No.:

Testing Period: 08-09-2020 to 11-09-2020 Date of Received by Lab.: 27-08-2020

Castco LRN:				MS0200827-41	
Sample I.D. No.:			/ Model No.: 200A-RPH		
Sample Description	on:			DN32 Stainless Stee (Leve	
Location of Work	<u> </u>			/ Brand Name: V	
Specimen No.:				BC0200811-004-MI	SL / Origin: Spain
Manufacturer:				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.026	Within limit
Sulfur	S	0.015 max.	%	<0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	16.90	Within limit
Manganese	Mn	2.00 max.	%	1.38	Within limit
Molybdenum	Molybdenum Mo 2.00 to 2.50 %		2.03	Within limit	
Nickel Ni 10.0 to 13.0 %		10.07	Within limit		
Phosphorus	P	0.045 max.	%	0.034	Within limit
Silicon	Si	1.00 max.	%	0.390	Within limit
Nitrogen	N	0.10 max.	%	0.038	Within limit

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



#### CASTCO TESTING CENTRE LIMITED

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E-mail: info@castco.com.hk

**Test Report** 

# **Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 2 Castco LRN: MS0200827-42

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received:

27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN32 Stainless Steel Ball Float Valve (Float Ball)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-004-MISL / Origin: Spain

Sample Identification No.:

-- / Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Assistant Technical Manager

Approved Signatory

Cheng Chi Fai

Senior Manager



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Castco LRN: MS0200827-42

# Test Report Chemical Analysis of Steel

Date of issue: 15-09-2020

Page 2 of 2

Chemical Analysis		Result
1) Total Carbon Content	С%	0.027
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.98
<sup>2)</sup> Manganese	Mn %	1.39
<sup>2)</sup> Molybdenum	Mo %	2.02
<sup>2)</sup> Nickel	Ni %	10.09
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.387
3) Nitrogen	N %	0.037

**End of Report** 



# STCO 佳力高試驗中心有限公司

## **CASTCO TESTING CENTRE LIMITED**

# Appendix A

### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 1 of 1 Castco LRN: MS0200827-42

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.: Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:				MS0200827-42		
Sample I.D. No.:				/ Model No.	: 200A-RPH	
Sample Description :			DN32 Stainless Stee (Float I			
Location of Wor	k :			/ Brand Name: V	ALVULAS CT	
Specimen No.:				BC0200811-004-MI	SL / Origin: Spain	
Manufacturer:				GENWEC WAS	HROOM, S.L.	
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit			
Carbon	C	0.07 max.	%	0.027	Within limit	
Sulfur	S	0.015 max.	%	< 0.0020	Within limit	
Chromium	Cr	16.5 to 18.5	%	16.98	Within limit	
Manganese	Mn	2.00 max.	%	1.39	Within limit	
Molybdenum	Mo	2.00 to 2.50	%	2.02	Within limit	
Nickel	Ni	10.0 to 13.0	%	10.09	Within limit	
Phosphorus	P	0.045 max.	%	0.034	Within limit	
Silicon	Si	1.00 max.	%	0.387	Within limit	
Nitrogen	N	0.10 max.	%	0.037	Within limit	

- Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



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# Test Report

### **Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-43 Page 1 of 2

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received:

27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN50 Stainless Steel Ball Float Valve (Body)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-006-MISL / Origin: Spain

Sample Identification No.: -- / Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Assistant Technical Manager

Approved Signatory

Cheng Chi Fai Senior Manager



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## Test Report

#### **Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-43

Chemical Analysis	Result	
1) Total Carbon Content	С%	0.028
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.11
<sup>2)</sup> Manganese	Mn %	1.40
<sup>2)</sup> Molybdenum	Mo %	2.04
<sup>2)</sup> Nickel	Ni %	10.16
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.389
3) Nitrogen	N %	0.037

**End of Report** 



# CASTCO 佳力高試驗中心有限公司

# **CASTCO TESTING CENTRE LIMITED**

# Appendix A

### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-43 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:				MS0200827-43	
Sample I.D. No.:				/ Model No.	: 200A-RPH
Sample Description :			DN50 Stainless Stee (Bod		
Location of Wor	k :			/ Brand Name: V	ALVULAS CT
Specimen No.:				BC0200811-006-MI	SL / Origin: Spain
Manufacturer:				GENWEC WAS	HROOM, S.L.
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.028	Within limit
Sulfur	S	0.015 max.	%	<0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.11	Within limit
Manganese	Mn	2.00 max.	%	1.40	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.04	Within limit
Nickel	Ni	10.0 to 13.0	%	10.16	Within limit
Phosphorus	P	0.045 max.	%	0.034	Within limit
Silicon	Si	1.00 max.	%	0.389	Within limit
Nitrogen	N	0.10 max.	%	0.037	Within limit

- Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



#### CASTCO TESTING CENTRE LIMITED

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# **Test Report**

**Chemical Analysis of Steel** 

Date	of issue	: 15-09	-2020

Castco LRN: MS0200827-44 Page 1 of 2

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN50 Stainless Steel Ball Float Valve (Seat(Piston))

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-006-MISL / Origin: Spain

Sample Identification No.: --/ Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Assistant Technical Manager

Approved Signatory

Cheng Chi Fai Senior Manager



# **CASTCO TESTING CENTRE LIMITED**

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# **Test Report Chemical Analysis of Steel**

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-44

Chemical Analysis		Result
1) Total Carbon Content	С%	0.026
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.02
<sup>2)</sup> Manganese	Mn %	1.38
<sup>2)</sup> Molybdenum	Mo %	2.03
<sup>2)</sup> Nickel	Ni %	10.09
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.386
3) Nitrogen	N %	0.036

**End of Report** 



# ASTCO 佳力高試驗中心有限公司

## **CASTCO TESTING CENTRE LIMITED**

# Appendix A

# **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-44 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:				MS0200827-44		
Sample I.D. No.:				/ Model No.	200A-RPH	
Sample Description	on *			DN50 Stainless Stee	l Ball Float Valve	
Sample Description	OH .			(Seat(Pi	ston))	
Location of Work	ζ:			/ Brand Name: V	ALVULAS CT	
Specimen No.:				BC0200811-006-MI	SL / Origin: Spain	
Manufacturer :				GENWEC WAS	HROOM, S.L.	
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit			
Carbon	С	0.07 max.	%	0.026	Within limit	
Sulfur	S	0.015 max.	%	< 0.0020	Within limit	
Chromium	Cr	16.5 to 18.5	%	17.02	Within limit	
Manganese	Mn	2.00 max.	%	1.38	Within limit	
Molybdenum	Molybdenum Mo 2.00 to 2.50 %		2.03	Within limit		
Nickel	Ni	10.0 to 13.0	%	10.09	Within limit	
Phosphorus	P	0.045 max.	%	0.034	Within limit	
Silicon	Si	1.00 max.	%	0.386	Within limit	
Nitrogen	N	0.10 max.	%	0.036	Within limit	

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).

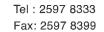


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Website: www.castco.com.hk





## Test Report

### **Chemical Analysis of Steel**

Castco LRN: MS0200827-45 Page 1 of 2

#### Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period:

08-09-2020 to 11-09-2020

Sample Description:

DN50 Stainless Steel Ball Float Valve (Lever)

Specification:

BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work:

-- / Brand Name: VALVULAS CT

Specimen No.:

BC0200811-006-MISL / Origin: Spain

Sample Identification No.: --/ Model No.: 200A-RPH

Manufacturer:

GENWEC WASHROOM, S.L.

#### Test Method(s):-

BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Assistant Technical Manager

Approved Signatory:

Cheng Chi Fai

Senior Manager



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**Test Report** 

Date of issue: 15-09-2020

Page 2 of 2 Castco LRN: MS0200827-45

**Chemical Analysis of Steel** 

Chemical Analysis		Result
1) Total Carbon Content	С%	0.027
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.13
<sup>2)</sup> Manganese	Mn %	1.39
<sup>2)</sup> Molybdenum	Мо %	2.04
<sup>2)</sup> Nickel	Ni %	10.16
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.395
3) Nitrogen	N %	0.036

**End of Report** 



## **CASTCO TESTING CENTRE LIMITED**

# Appendix A

### Summary of Chemical Analysis of Steel

Date of issue: 15-09-2020

Castco LRN: MS0200827-45 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:			MS0200827-45		
Sample I.D. No.:			/ Model No.: 200A-RPH		
Sample Description :			DN50 Stainless Steel Ball Float Valve (Lever)		
Location of Work:			/ Brand Name: VALVULAS CT		
Specimen No. :			BC0200811-006-MISL / Origin: Spain		
Manufacturer :			GENWEC WASHROOM, S.L.		
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.027	Within limit
Sulfur	S	0.015 max.	%	< 0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.13	Within limit
Manganese	Mn	2.00 max.	%	1.39	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.04	Within limit
Nickel	Ni	10.0 to 13.0	%	10.16	Within limit
Phosphorus	P	0.045 max.	%	0.034	Within limit
Silicon	Si	1.00 max.	%	0.395	Within limit
Nitrogen	N	0.10 max.	%	0.036	Within limit

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).



#### CASTCO TESTING CENTRE LIMITED

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Website: www.castco.com.hk



# **Test Report**

#### **Chemical Analysis of Steel**

Date	of iss	sue:	15-	09-	-202	20

Page 1 of 2 Castco LRN: MS0200827-46

#### Details as supplied by customer

Name of Customer: Gate Way Valve & Fitting Limited

Address: Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title:

Contract No.:

Customer's Ref. No.:

#### Sample details as supplied by customer

Date Sampled:

Date of Sample Received: 27-08-2020

Test Period: 08-09-2020 to 11-09-2020

Sample Description: DN50 Stainless Steel Ball Float Valve (Float Ball)

Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Location of Work: -- / Brand Name: VALVULAS CT

Specimen No.: BC0200811-006-MISL / Origin: Spain

Sample Identification No.: -- / Model No.: 200A-RPH

GENWEC WASHROOM, S.L. Manufacturer:

#### Test Method(s):-

1) BS EN ISO 15350: 2010

In House Method: ST-Multi-1(ICP-OES)

BS EN ISO 15351: 2010

#### Remark:

I. Test results only relate to the specimen tested.

Checked by:

Lau Hill Yat

Assistant Technical Manager

Approved Signatory

Cheng Chi Fai

Senior Manager



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Tel: 2597 8333 Fax: 2597 8399

# **Test Report**

**Chemical Analysis of Steel** 

Date of issue: 15-09-2020

Page 2 of 2

Castco LRN: MS0200827-46

Chemical Analysis		Result
1) Total Carbon Content	С%	0.025
1) Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	16.90
<sup>2)</sup> Manganese	Mn %	1.38
<sup>2)</sup> Molybdenum	Mo %	2.02
<sup>2)</sup> Nickel	Ni %	10.05
<sup>2)</sup> Phosphorus	Р%	0.034
<sup>2)</sup> Silicon	Si %	0.393
3) Nitrogen	N %	0.038

**End of Report** 



# **CASTCO TESTING CENTRE LIMITED**

# Appendix A

#### **Summary of Chemical Analysis of Steel**

Date of issue: 15-09-2020

Castco LRN: MS0200827-46 Page 1 of 1

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

27-08-2020

Testing Period: 08-09-2020 to 11-09-2020

Castco LRN:			MS0200827-46		
Sample I.D. No.:			/ Model No.: 200A-RPH		
Sample Description :			DN50 Stainless Steel Ball Float Valve (Float Ball)		
Location of Work:			/ Brand Name: VALVULAS CT		
Specimen No.:			BC0200811-006-MISL / Origin: Spain		
Manufacturer :			GENWEC WASHROOM, S.L.		
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401(316)		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.025	Within limit
Sulfur	S	0.015 max.	%	< 0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	16.90	Within limit
Manganese	Mn	2.00 max.	%	1.38	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.02	Within limit
Nickel	Ni	10.0 to 13.0	%	10.05	Within limit
Phosphorus	P	0.045 max.	%	0.034	Within limit
Silicon	Si	1.00 max.	%	0.393	Within limit
Nitrogen	N	0.10 max.	%	0.038	Within limit

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401(316).