

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

33, On Kui Street, Fanling, Hong Kong. 29A, On Chuen Street, Fanling, Hong Kong.

Tel: 2597 8333

Fax: 2597 8399



Test Report Chemical Analysis of Steel

Date of issue: 21-06-2023 Specimen No.: CHEM-230605-2842-001

Castco LRN: 230605-2842

Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Page 1 of 2

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

Job Title:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Sample details as supplied by customer

Date Sampled:

Sample Description:

DN50 Ductile Iron Wafer Type Silent Check Valve (Seat)

Specification:

BS EN 10283:2010, Table 1, Grade 1.4408 (316)

Specimen No.:

230601-2575-001

Sample Identification No.: -- / Model No.: 580PHS-RS / Origin: New Zealand

Manufacturer:

Cla-Val Pacific Limited / Brand name: Cla-Val

Test Method(s):-

BS EN ISO 15350: 2010

ST-Multi-1(ICP-OES)

Remark(s):

I. Test results only relate to the specimen tested.

Checked by:

Lau Hir Yat

Approved Signatory:

Cheng Chi Fai

Senior Manager



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Test Report

Chemical Analysis of Steel

Date of issue: 21-06-2023

Page 2 of 2

Specimen No.: CHEM-230605-2842-001 Castco LRN: 230605-2842

Laboratory test details

Date of Request Confirmed:

02-06-2023

Date of Received by Lab.:

02-06-2023

Testing Period:

14-06-2023 to 15-06-2023

Chemical Analysis		Result
1) Total Carbon Content	С%	0.030
1) Total Sulfur Content	S %	0.0053
²⁾ Chromium	Cr %	18.18
²⁾ Manganese	Mn %	1.21
²⁾ Molybdenum	Мо %	2.34
²⁾ Nickel	Ni %	9.39
²⁾ Phosphorus	Р%	0.026
²⁾ Silicon	Si %	1.31

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: 21-06-2023

Specimen No.: CHEM-230605-2842-001

Castco LRN: 230605-2842

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Page 1 of 1

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

02-06-2023

Testing Period: 14-06-2023 to 15-06-2023

Castco LRN:			230605-2842		
Sample Description :			DN50 Ductile Iron Wafer Type Silent Check Valve (Seat)		
Specimen No.:				230601-25	575-001
Sample Identification No.:			/ Model No. : 580PHS-RS / Origin : New Zealand		
Manufacturer :			Cla-Val Pacific Limited / Brand name: Cla- Val		
Specification: BS EN 10283:2010, Table 1, Grade 1.4408			Test Results	Within / Exceed limit	
Carbon	С	0.07 max.	%	0.030	Within limit
Sulfur	S	0.030 max.	%	0.0053	Within limit
Chromium	Cr	18.00 to 20.00	%	18.18	Within limit
Manganese	Mn	1.50 max.	%	1.21	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.34	Within limit
Nickel	Ni	9.00 to 12.00	%	9.39	Within limit
Phosphorus	P	0.040 max.	%	0.026	Within limit
Silicon	Si	1.50 max.	%	1.31	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 10283:2010, Table 1, Grade 1.4408.



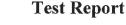
CASTCO TESTING CENTRE LIMITED

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Chemical Analysis of Steel

Date of issue: 21-06-2023 Specimen No.: CHEM-230605-2843-001

Castco LRN: 230605-2843

Details as supplied by customer

Name of Customer:

Gate Way Valve & Fitting Limited

Address:

Page 1 of 2

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

Job Title:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Sample details as supplied by customer

Date Sampled:

Sample Description:

DN50 Ductile Iron Wafer Type Silent Check Valve (Disc)

Specification:

BS EN 10283:2010, Table 1, Grade 1.4408 (316)

Specimen No.:

230601-2575-001

Sample Identification No.: -- / Model No.: 580PHS-RS / Origin: New Zealand

Manufacturer:

Cla-Val Pacific Limited / Brand name: Cla-Val

Test Method(s):-

BS EN ISO 15350: 2010

ST-Multi-1(ICP-OES)

Remark(s):

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Technical Manager

Approved Signatory:

Cheng Chi Fai

Senior Manager



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Test Report

Chemical Analysis of Steel

Date of issue: 21-06-2023

Page 2 of 2

Castco LRN: 230605-2843

Laboratory test details

Date of Request Confirmed:

02-06-2023

Date of Received by Lab.:

02-06-2023

Specimen No.: CHEM-230605-2843-001

Testing Period:

14-06-2023 to 15-06-2023

Chemical Analysis	Result	
1) Total Carbon Content	С %	0.030
1) Total Sulfur Content	S %	0.0043
²⁾ Chromium	Cr %	18.30
²⁾ Manganese	Mn %	1.03
²⁾ Molybdenum	Мо %	2.50
²⁾ Nickel	Ni %	9.34
²⁾ Phosphorus	Р%	0.027
²⁾ Silicon	Si %	1.27

End of Report



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Appendix A

Summary of Chemical Analysis of Steel

Date of issue: 21-06-2023

Specimen No.: CHEM-230605-2843-001

Castco LRN: 230605-2843

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Page 1 of 1

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

02-06-2023

Testing Period: 14-06-2023 to 15-06-2023

Castco LRN:				230605-2843		
Sample Description:				DN50 Ductile Iron Wafer Type Silent Check Valve (Disc)		
Specimen No.:				230601-25	575-001	
Sample Identification No.:			/ Model No. : 580PHS-RS / Origin : New Zealand			
Manufacturer :			Cla-Val Pacific Limited / Brand name: Cla- Val			
Specification: BS EN 10283:2010, Table 1, Grade 1.4408			Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.030	Within limit	
Sulfur	S	0.030 max.	%	0.0043	Within limit	
Chromium	Cr	18.00 to 20.00	%	18.30	Within limit	
Manganese	Mn	1.50 max.	%	1.03	Within limit	
Molybdenum	Mo	2.00 to 2.50	%	2.50	Within limit	
Nickel	Ni	9.00 to 12.00	%	9.34	Within limit	
Phosphorus	P	0.040 max.	%	0.027	Within limit	
Silicon	Si	1.50 max.	%	1.27	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 10283:2010, Table 1, Grade 1.4408.



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Test Report Chemical Analysis of Steel

Date of issue: 21-06-2023

Page 1 of 2

Specimen No.: CHEM-230605-2844-001

Castco LRN: 230605-2844

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:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Sample details as supplied by customer

Date Sampled:

Sample Description:

DN80 Ductile Iron Wafer Type Silent Check Valve (Seat)

Specification:

BS EN 10283:2010, Table 1, Grade 1.4408 (316)

Specimen No.:

230601-2575-003

Sample Identification No.: --/ Model No.: 580PHS-RS / Origin: New Zealand

Manufacturer:

Cla-Val Pacific Limited / Brand name: Cla-Val

Test Method(s):-

1) BS EN ISO 15350: 2010

ST-Multi-1(ICP-OES)

Remark(s):

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

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: 21-06-2023

Page 2 of 2

Specimen No.: CHEM-230605-2844-001

Castco LRN: 230605-2844

Laboratory test details

Date of Request Confirmed:

02-06-2023

Date of Received by Lab.:

02-06-2023

Testing Period:

14-06-2023 to 15-06-2023

Chemical Analysis	Result	
1) Total Carbon Content	С%	0.028
1) Total Sulfur Content	S %	0.0045
²⁾ Chromium	Cr %	18.07
²⁾ Manganese	Mn %	1.18
²⁾ Molybdenum	Мо %	2.42
²⁾ Nickel	Ni %	9.26
²⁾ Phosphorus	Р%	0.023
²⁾ Silicon	Si %	1.41

End of Report



CASTCO TESTING CENTRE LIMITED

Appendix A

Summary of Chemical Analysis of Steel

Date of issue: 21-06-2023

Specimen No.: CHEM-230605-2844-001

Castco LRN: 230605-2844

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

Page 1 of 1

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Date of Received by Lab.:

02-06-2023

Testing Period: 14-06-2023 to 15-06-2023

Castco LRN:			230605-2844		
Sample Description :			DN80 Ductile Iron Wafer Type Silent Check Valve (Seat)		
Specimen No.:				230601-2	575-003
Sample Identification No.:			/ Model No. : 580PHS-RS / Origin : New Zealand		
Manufacturer :			Cla-Val Pacific Limite Va		
Specification: BS EN 10283:2010, Table 1, Grade 1.4408		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.028	Within limit
Sulfur	S	0.030 max.	%	0.0045	Within limit
Chromium	Cr	18.00 to 20.00	%	18.07	Within limit
Manganese	Mn	1.50 max.	%	1.18	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.42	Within limit
Nickel	Ni	9.00 to 12.00	%	9.26	Within limit
Phosphorus	P	0.040 max.	%	0.023	Within limit
Silicon	Si	1.50 max.	%	1.41	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 10283:2010, Table 1, Grade 1.4408.



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Test Report

Chemical Analysis of Steel

Date of issue:	21-06-2023

Page 1 of 2

Castco LRN: 230605-2845

Specimen No.: CHEM-230605-2845-001

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:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Sample details as supplied by customer

Date Sampled:

Sample Description:

DN80 Ductile Iron Wafer Type Silent Check Valve (Disc)

Specification:

BS EN 10283:2010, Table 1, Grade 1.4408 (316)

Specimen No.:

230601-2575-003

Sample Identification No.: -- / Model No.: 580PHS-RS / Origin: New Zealand

Manufacturer:

Cla-Val Pacific Limited / Brand name: Cla-Val

Test Method(s):-

BS EN ISO 15350: 2010

ST-Multi-1(ICP-OES)

Remark(s):

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Technical Manager

Approved Signatory:

Cheng Chi Fai Senior Manager



佳力高試驗中心有限公司 CASTCO TESTING CENTRE LIMITED

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On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399

Website: www.castco.com.hk



Test Report

Chemical Analysis of Steel

Date of issue: 21-06-2023

Page 2 of 2

Specimen No.: CHEM-230605-2845-001

Castco LRN: 230605-2845

Laboratory test details

Date of Request Confirmed:

02-06-2023

Date of Received by Lab.:

Tel: 2597 8333

02-06-2023

Testing Period:

14-06-2023 to 15-06-2023

Chemical Analysis	Result	
1) Total Carbon Content	С%	0.029
1) Total Sulfur Content	S %	0.0042
²⁾ Chromium	Cr %	18.25
²⁾ Manganese	Mn %	1.04
²⁾ Molybdenum	Мо %	2.31
²⁾ Nickel	Ni %	9.25
²⁾ Phosphorus	Р%	0.026
²⁾ Silicon	Si %	1.39

End of Report



CASTCO TESTING CENTRE LIMITED

Appendix A

Summary of Chemical Analysis of Steel

Date of issue: 21-06-2023 Specimen No.: CHEM-230605-2845-001

Page 1 of 1 Castco LRN: 230605-2845

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

--

Customer's Ref. No.:

--

Date of Received by Lab.: 02-06-2023

Testing Period: 14-06-2023 to 15-06-2023

Castco LRN:			230605-2845		
Sample Description :			DN80 Ductile Iron Wafer Type Silent Check Valve (Disc)		
Specimen No.:				230601-25	575-003
Sample Identification No.:			/ Model No. : 580PHS-RS / Origin : New Zealand		
Manufacturer :				Cla-Val Pacific Limited / Brand name: Cla- Val	
Specification: BS EN 10283:2010, Table 1, Grade 1.4408		Test Results	Within / Exceed limit		
Carbon	С	0.07 max.	%	0.029	Within limit
Sulfur	S	0.030 max.	%	0.0042	Within limit
Chromium	Cr	18.00 to 20.00	%	18.25	Within limit
Manganese	Mn	1.50 max.	%	1.04	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.31	Within limit
Nickel	Ni	9.00 to 12.00	%	9.25	Within limit
Phosphorus	P	0.040 max.	%	0.026	Within limit
Silicon	Si	1.50 max.	%	1.39	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 10283:2010, Table 1, Grade 1.4408.



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Test Report Chemical Analysis of Steel

Date of issue: 21-06-2023

Page 1 of 2

Specimen No.: CHEM-230605-2846-001

Castco LRN: 230605-2846

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:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Sample details as supplied by customer

Date Sampled:

Sample Description:

DN200 Ductile Iron Wafer Type Silent Check Valve (Seat)

Specification:

BS EN 10283:2010, Table 1, Grade 1.4408 (316)

Specimen No.:

230601-2575-006

Sample Identification No.: --/ Model No.: 580PHS-RS / Origin: New Zealand

Manufacturer:

Cla-Val Pacific Limited / Brand name: Cla-Val

Test Method(s):-

BS EN ISO 15350: 2010

ST-Multi-1(ICP-OES)

Remark(s):

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

Technical Manager

Approved Signatory

Cheng Chi Fai

Senior Manager



佳力高試驗中心有限公司 **CASTCO TESTING CENTRE LIMITED**

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Fax: 2597 8399



Test Report

Chemical Analysis of Steel

Date of issue: 21-06-2023

Specimen No.: CHEM-230605-2846-001

Castco LRN: 230605-2846

Laboratory test details

Date of Request Confirmed:

02-06-2023

Date of Received by Lab.:

02-06-2023

Testing Period:

Page 2 of 2

14-06-2023 to 15-06-2023

Website: www.castco.com.hk

Chemical Analysis		Result
1) Total Carbon Content	С %	0.030
1) Total Sulfur Content	S %	0.0048
²⁾ Chromium	Cr %	18.20
²⁾ Manganese	Mn %	1.19
²⁾ Molybdenum	Мо %	2.47
²⁾ Nickel	Ni %	9.35
²⁾ Phosphorus	Р%	0.025
²⁾ Silicon	Si %	1.39

End of Report



CASTCO TESTING CENTRE LIMITED

Appendix A

Summary of Chemical Analysis of Steel

Date of issue: 21-06-2023 Specimen No.: CHEM-230605-2846-001

Page 1 of 1 Castco LRN: 230605-2846

Name of Customer: Gate Way Valve & Fitting Limited

Job Title: WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Date of Received by Lab.: 02-06-2023 Testing Period: 14-06-2023 to 15-06-2023

Castco LRN:				220605	2016		
Castco LRIV.			230605-2846				
Sample Description	on ®			1	DN200 Ductile Iron Wafer Type Silent		
Sample Beseriptiv	OII .			Check Valv	ve (Seat)		
Specimen No. :				230601-25	575-006		
Comple Identifies	tion No			/ Model No. : 580	PHS-RS / Origin :		
Sample Identifica	HOII NO	••		New Ze	aland		
Manuella ataman				Cla-Val Pacific Limited	d / Brand name: Cla-		
Manufacturer :				Va	l		
Specification: BS EN 10283:2010, Table 1,				Within / Exceed			
Grade 1.4408		Test Results	limit				
Carbon	С	0.07 max.	%	0.030	Within limit		
Sulfur	S	0.030 max.	%	0.0048	Within limit		
Chromium	Cr	18.00 to 20.00	%	18.20	Within limit		
Manganese	Mn	1.50 max.	%	1.19	Within limit		
Molybdenum	Mo	2.00 to 2.50	%	2.47	Within limit		
Nickel	Ni	9.00 to 12.00	%	9.35	Within limit		
Phosphorus	P	0.040 max.	%	0.025	Within limit		
Silicon	Si	1.50 max.	%	1.39	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 10283:2010, Table 1, Grade 1.4408.



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Test Report

Chemical Analysis of Steel

Date of issue: 21-06-2023 Specimen No.: CHEM-230605-2847-001 Page 1 of 2

Castco LRN: 230605-2847

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:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

Customer's Ref. No.:

Sample details as supplied by customer

Date Sampled:

Sample Description:

DN200 Ductile Iron Wafer Type Silent Check Valve (Disc)

Specification:

BS EN 10283:2010, Table 1, Grade 1.4408 (316)

Specimen No.:

230601-2575-006

Sample Identification No.: --/ Model No.: 580PHS-RS / Origin: New Zealand

Manufacturer:

Cla-Val Pacific Limited / Brand name: Cla-Val

Test Method(s):-

BS EN ISO 15350: 2010

ST-Multi-1(ICP-OES)

Remark(s):

I. Test results only relate to the specimen tested.

Checked by:

Lau Hiu Yat

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: 21-06-2023

Specimen No.: CHEM-230605-2847-001

Castco LRN: 230605-2847

Laboratory test details

Date of Request Confirmed:

02-06-2023

Date of Received by Lab.:

02-06-2023

Testing Period:

Page 2 of 2

14-06-2023 to 15-06-2023

Website: www.castco.com.hk

Chemical Analysis		Result
1) Total Carbon Content	С %	0.030
1) Total Sulfur Content	S %	0.0043-
²⁾ Chromium	Cr %	18.16
²⁾ Manganese	Mn %	1.03
²⁾ Molybdenum	Мо %	2.35
²⁾ Nickel	Ni %	9.26
²⁾ Phosphorus	Р%	0.026
²⁾ Silicon	Si %	1.16

End of Report



CASTCO TESTING CENTRE LIMITED

Appendix A

Summary of Chemical Analysis of Steel

Date of issue: 21-06-2023 Specimen No.: CHEM-230605-2847-001

Page 1 of 1 Castco LRN: 230605-2847

Name of Customer:

Gate Way Valve & Fitting Limited

Job Title:

WSD GA renew of Cla-Val Silent Check Valve Model 580PHS-RS

Contract No.:

--

Customer's Ref. No.:

--

Date of Received by Lab.: 02

02-06-2023

Testing Period: 14-06-2023 to 15-06-2023

Castco LRN:				230605-2847	
Sample Description:				DN200 Ductile Iron Wafer Type Silent Check Valve (Disc)	
Specimen No.:				230601-2575-006	
Sample Identification No.:				/ Model No. : 580PHS-RS / Origin : New Zealand	
Manufacturer:				Cla-Val Pacific Limited / Brand name: Cla- Val	
Specification: BS EN 10283:2010, Table 1, Grade 1.4408				Test Results	Within / Exceed limit
Carbon	С	0.07 max.	%	0.030	Within limit
Sulfur	S	0.030 max.	%	0.0043	Within limit
Chromium	Cr	18.00 to 20.00	%	18.16	Within limit
Manganese	Mn	1.50 max.	%	1.03	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.35	Within limit
Nickel	Ni	9.00 to 12.00	%	9.26	Within limit
Phosphorus	P	0.040 max.	%	0.026	Within limit
Silicon	Si	1.50 max.	%	1.16	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 10283:2010, Table 1, Grade 1.4408.