


**Summary of Test Results**

Reference no. : BC-SUMMARY-2021-106

Customer : Gate Way Valve & Fitting Ltd.  
 Address : Flat A1, 4/F., Galaxy Factory Building, 25-27 Luk Hop Street, San Po Kong, H. K.  
 Sample description : Ductile Iron Y-strainer  
 Nominal pressure (PN) : 16  
 Manufacturer : Waterfront Fluid Controls Ltd.  
 Brand name : Waterfront

Body marking :  (DN) PN16

Model no. : Series 861S

Origin : PRC

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

Test standard : WIS 4-52-01 Dec. 1992 : Issue 1 / BS EN 12266-1 : 2012 / BS EN 1563 : 2011 / BS EN 10088-1 : 2014

Test period : 01 to 15 June 2021

**A) Sample List**

DN (mm)	Inch	Specimen no.
20	3/4"	210518-2486-001
25	1"	210518-2486-002
32	1-1/4"	210518-2486-003
40	1-1/2"	210518-2486-004
50	2"	210518-2486-005

**B) Test Item****1) Dimensions Check (In-house method based on Manufacturer requirement)**

DN (mm)	Inch	Test results	Castco LRN
20	3/4"	Passed	210518-2486
25	1"	Passed	
32	1-1/4"	Passed	
40	1-1/2"	Passed	
50	2"	Passed	

**2) Coating Thickness Test (WIS 4-52-01 Dec. 1992 : Issue 1 Appendix B)**

DN (mm)	Inch	Test results	Castco LRN
20	3/4"	Passed	210518-2486
25	1"	Passed	
32	1-1/4"	Passed	
40	1-1/2"	Passed	
50	2"	Passed	

**Remark(s) :**

1. This page no. 1A of this summary supersedes page no. 1 of the previous summary of Reference no. : BC-SUMMARY-2021-106 issued on 24 June 2021.

**Summary of Test Results**

Reference no. : BC-SUMMARY-2021-106

**B) Test Item (con't)****3) Shell Tightness to Internal Pressure (BS EN 12266-1 : 2012 Clause 4)**

DN (mm)	Inch	Test results	Castco LRN
20	3/4"	Passed	210518-2486
25	1"	Passed	
32	1-1/4"	Passed	
40	1-1/2"	Passed	
50	2"	Passed	

**4) Tensile Test (BS EN 1563 : 2011 Clause 7.2.1.1 Table 1 (Grade EN-GJS-500-7) and Clause 9.1)**

DN (mm)	Inch	Test results	Castco LRN
20	3/4"	Passed	210518-2486
32	1-1/4"	Passed	
50	2"	Passed	

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

DN (mm)	Inch	Test results	Castco LRN
20	3/4"	Passed	210603-2252
32	1-1/4"	Passed	210603-2253
50	2"	Passed	210603-2254

**Remark(s) :**

1. This page no. 2A of this summary supersedes page no. 2 of the previous summary of Reference no. : BC-SUMMARY-2021-106 issued on 24 June 2021.

Prepare by : \_\_\_\_\_

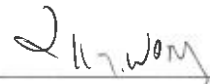
Date : 26 October 2021



**FU HO MAN**  
Assistant Technical Manager

Review by : \_\_\_\_\_

Date : 26 October 2021



**WONG KA MAN**  
Senior Manager

**Test Report  
Strainers - Dimensions  
(In-house method VAL-STRAINER-DIM)**

Date of issue : 26 October 2021

Page 1A of 6 page(s)

Castco LRN : 210518-2486

**Details as supplied by customer**

Customer : Gate Way Valve &amp; Fitting Ltd.

Customer's ref. no. : - -

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

Contract no. : - -

Job title : - -

Sample description : Ductile Iron Y-strainer

Nominal pressure (PN) : 16

Manufacturer : Waterfront Fluid Controls Ltd.

Brand name : Waterfront

Body marking :  (DN) PN16

Model no. : Series 861S

Origin : PRC

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

**Laboratory test results**

Date of sample received : 17 May 2021

Date of test : 01 June 2021

Specimen no.		210518-2486-001	210518-2486-002	210518-2486-003	210518-2486-004	210518-2486-005
DN (mm)		20	25	32	40	50
Inch		3/4"	1"	1-1/4"	1-1/2"	2"
H (mm)	Measured mean value	88	85	95	110	134
	Manufacturer requirement	82	82	100	120	130
L (mm)	Measured mean value	113	113	135	158	191
	Manufacturer requirement	115	115	137	160	191

**Remark(s) :**

1. Test results relate only to the specimen tested.
2. Connection suit for BS EN 10226 (previously BS 21) thread connection.
3. This page no. 1A of this test report supersedes page no. 1 of the previous test report of Castco LRN : 210518-2486 issued on 24 June 2021 with amendment : "Waterfront Fluid Control Ltd." in "Manufacturer" was corrected as "Waterfront Fluid Controls Ltd." due to customer request.

Checked by : \_\_\_\_\_

  
**FU HO MAN**  
Assistant Technical Manager

Approved Signatory : \_\_\_\_\_

  
**WONG KA MAN**  
Senior Manager

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Website: www.castco.com.hk

## Test Report

## Valves - Coating Thickness Measurement

(Water Industry Specification 4-52-01 Dec. 1992 : Issue 1 Appendix B in conjunction with the following specification(s):  
Water Industry Specification 4-52-01 Dec. 1992 : Issue 1 Clause 12.7.1)

Date of issue : 26 October 2021

Page 2A of 6 page(s)

Castco LRN : 210518-2486

**Details as supplied by customer**

Customer : Gate Way Valve &amp; Fitting Ltd.

Customer's ref. no. : - -

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

Contract no. : - -

Job title : - -

Sample description : Ductile Iron Y-strainer

Nominal pressure (PN) : 16

Manufacturer : Waterfront Fluid Controls Ltd.

Brand name : Waterfront

Body marking :  (DN) PN16

Model no. : Series 861S

Origin : PRC

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

**Laboratory test results**

Date of sample received : 17 May 2021

Date of test : 01 June 2021

Specimen no.	210518-2486-001	210518-2486-002	210518-2486-003	210518-2486-004	210518-2486-005	
DN (mm)	20	25	32	40	50	
Inch	3/4"	1"	1-1/4"	1-1/2"	2"	
Ambient temperature (°C)	24.0	24.0	24.0	24.0	24.0	
Measured value of coating thickness at external surface (µm)	1	455	275	318	544	
	2	387	298	367	551	
	3	436	266	357	572	
	4	364	306	374	566	
	5	431	316	292	309	580
Measured value of coating thickness at internal surface (µm)	6	310	279	317	222	320
	7	431	511	271	400	226
	8	359	443	221	341	261
	9	305	202	343	340	316
	10	423	411	290	405	259
	11	414	438	253	378	276
	12	359	527	431	292	252
	13	334	450	218	322	341
	14	287	431	320	255	241
	15	353	523	353	314	299
Mean	376.5	378.4	315.0	326.3	373.6	
Minimum coating thickness (µm)	287	202	218	222	226	
Maximum coating thickness (µm)	455	527	431	405	580	
Standard deviation (µm)	53.4	106.0	59.1	50.8	141.9	
Manufacturer requirement (µm)	Minimum coating thickness	min. 200				
	Maximum coating thickness	max. 2000				

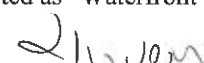
## Remark(s) :

1. Test results relate only to the specimen tested.
2. This page no. 2A of this test report supersedes page no. 2 of the previous test report of Castco LRN : 210518-2486 issued on 24 June 2021 with amendment : "Waterfront Fluid Control Ltd." in "Manufacturer" was corrected as "Waterfront Fluid Controls Ltd." due to customer request.

Checked by :

  
**FU HO MAN**  
Assistant Technical Manager

Approved Signatory :

  
**WONG KA MAN**  
Senior Manager

Form no. : BC\_VALVES\_CT\_WIS 4-52-01\_T\_dd\_22/04/2020

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29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399  
Website: www.castco.com.hk**Test Report  
Metallic Valves - Shell and Seat Tightness  
(BS EN 12266-1 : 2012 Annex A3 and A4)**

Date of issue : 26 October 2021

Page 3A of 6 page(s)

Castco LRN : 210518-2486

**Details as supplied by customer**

Customer : Gate Way Valve &amp; Fitting Ltd.

Customer's ref. no. : - -

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

Contract no. : - -

Job title : - -

Sample description : Ductile Iron Y-strainer

Nominal pressure (PN) : 16

Manufacturer : Waterfront Fluid Controls Ltd.

Brand name : Waterfront

Body marking :  (DN) PN16

Model no. : Series 861S

Origin : PRC

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

**Laboratory test results**

Date of sample received : 17 May 2021

Date of test : 04 June 2021

**A) Shell Tightness**

Specimen no.	210518-2486-001	210518-2486-002	210518-2486-003	210518-2486-004	210518-2486-005
DN (mm)	20	25	32	40	50
Inch	3/4"	1"	1-1/4"	1-1/2"	2"
Water temperature (°C)	24.0	24.0	24.0	24.0	24.0
Apply pressure (bar)	24	24	24	24	24
Test duration (s)	60	60	60	60	60
Visually detectable leakage	No	No	No	No	No
Requirement	Visually detectable leakage is not permitted				


**Remark(s) :**

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 12266-1 : 2012 Clause 4 (this specification is not covered by the laboratory's HOKLAS accreditation).
3. Effect of measurement uncertainty has not been taken into account.
4. This page no. 3A of this test report supersedes page no. 3 of the previous test report of Castco LRN : 210518-2486 issued on 24 June 2021 with amendment : "Waterfront Fluid Control Ltd." in "Manufacturer" was corrected as "Waterfront Fluid Controls Ltd." due to customer request.

Checked by : \_\_\_\_\_

  
**FU HO MAN**  
Assistant Technical Manager

Approved Signatory : \_\_\_\_\_

  
**WONG KA MAN**  
Senior Manager

Test Report  
Metallic Materials - Tensile Test of Metallic Materials  
(BS EN ISO 6892-1 : 2009)

Date of issue : 26 October 2021

Page 4A of 6 page(s)

Castco LRN : 210518-2486

Details as supplied by customer

Customer : Gate Way Valve &amp; Fitting Ltd.

Customer's ref. no. : - -

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

Contract no. : - -


Job title : - -

Sample description : Ductile Iron Y-strainer

Nominal pressure (PN) : 16

Manufacturer : Waterfront Fluid Controls Ltd.

Brand name : Waterfront

Body marking :  (DN) PN16

Model no. : Series 861S

Origin : PRC

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

Acceptance standard : BS EN 1563 : 2011 Clause 7.2.1.1 Table 1 (Grade EN-GJS-500-7) and Clause 9.1

Laboratory test results

Date of sample received : 17 May 2021

Date of test : 05 June 2021

## Tensile Test

Specimen no.	DN (mm)	Type & Prepar'n	Specimen length (mm)	Area (mm <sup>2</sup> )	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Position of fracture	Remark
210518-2486-001	20	A, M	161	160.4	403	517	12.9	--	--
210518-2486-003	32	A, M	162	161.6	387	505	14.8	--	--
210518-2486-005	50	A, M	161	162.3	411	506	14.4	--	--

## Remark(s) :

1. A - Proportional; B - Non - proportional; M - Machined; N - Unmachined;  
+ - This measurement is 'invalid' which relates to the position of fracture only.
2. The yield strength is determined at 0.2% proof strength.
3. Test results relate only to the specimen tested.
4. Test results of sample comply with the requirement of BS EN 1563 : 2011 Table 1 (this specification is not covered by the laboratory's HOKLAS accreditation).
5. The requirement of BS EN 1563 : 2011 Table 1 : 0.2% proof strength = min. 320MPa; Tensile strength = min. 500MPa; Elongation = min. 7%.
6. The acceptance limit is the same as the tolerance limit (simple acceptance, see Figure A). Only test results out of the tolerance/acceptance limit will be concluded as out-of-tolerance.



Figure A - Graphical representation of a binary assessment - Simple acceptance

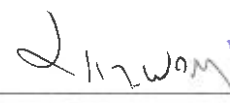
5. This page no. 4A of this test report supersedes page no. 4 of the previous test report of Castco LRN : 210518-2486 issued on 24 June 2021 with amendment : "Waterfront Fluid Control Ltd." in "Manufacturer" was corrected as "Waterfront Fluid Controls Ltd." due to customer request.

Checked by : \_\_\_\_\_



FU HO MAN  
Assistant Technical Manager

Approved Signatory : \_\_\_\_\_



WONG KA MAN  
Senior Manager

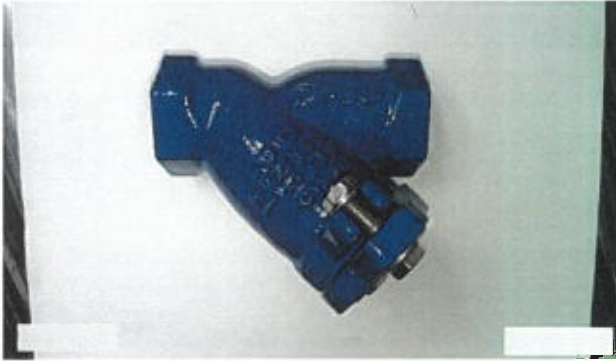
Form no. : ST 6892\_T1(for BC)\_dd\_02/01/2020

**Test Report  
Strainers - Dimensions  
(In-house method VAL-STRAINER-DIM)**

Date of issue : 24 June 2021

Page 5 of 6 page(s)

Castco LRN : 210518-2486

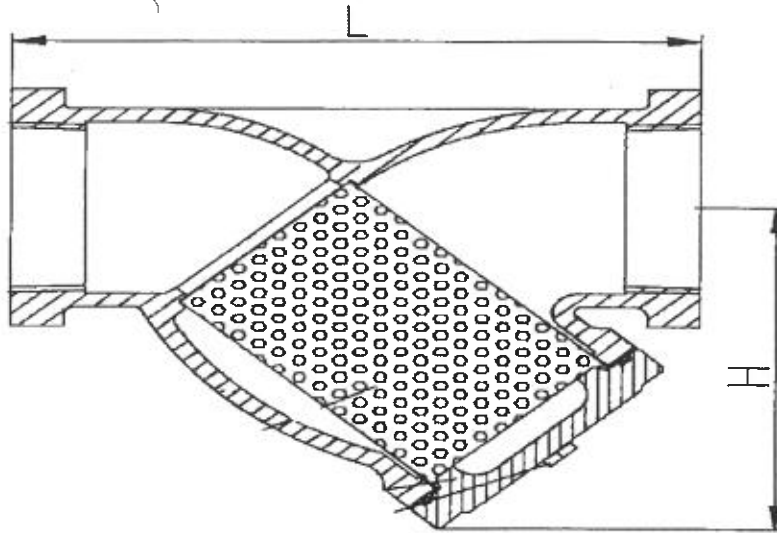
Appendix A210518-2486-001210518-2486-002210518-2486-003210518-2486-004210518-2486-005

Test Report  
Strainers - Dimensions  
(In-house method VAL-STRAINER-DIM)

Date of issue : 24 June 2021

Page 6 of 6 page(s)

Castco LRN : 210518-2486

Appendix CDimensions Figure

End of Report

Form no. : BC\_STRAINERS\_DIM\_IN-HOUSE\_T\_dd\_22/04/2020

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**Test Report  
Chemical Analysis of Steel**Date of issue: 18-06-2021  
Page 1 of 2Specimen No.: CHEM-210603-2252-001  
Castco LRN: 210603-2252**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 : 02-06-2021  
Test Period : 08-06-2021 to 15-06-2021  
Sample Description : DN20 Ductile Iron Y-Strainer (Screen)  
Specification : BS EN 10088-1:2014, Table 2, Grade 1.4401  
Specimen No. : 210518-2486-001  
Sample Identification No. : -- / Model No. : Series 861S / Origin : PRC  
Manufacturer : Waterfront Fluid Controls Ltd. / Brand name: Waterfront


**Test Method(s):-**

- 1) BS EN ISO 15350 : 2010
- 2) ST-Multi-1(ICP-OES)
- 3) BS EN ISO 15351: 2010

**Remark(s):**

- I. Test results only relate to the specimen tested.

Checked by :

  
Lau Hiu Yat

Assistant Technical Manager

Approved Signatory :

  
Cheng Chi Fai

Senior Manager

**Test Report  
Chemical Analysis of Steel**Date of issue: 18-06-2021  
Page 2 of 2Specimen No.: CHEM-210603-2252-001  
Castco LRN: 210603-2252

Chemical Analysis		Result
<sup>1)</sup> Total Carbon Content	C %	0.033
<sup>1)</sup> Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.46
<sup>2)</sup> Manganese	Mn %	1.20
<sup>2)</sup> Molybdenum	Mo %	2.02
<sup>2)</sup> Nickel	Ni %	10.24
<sup>2)</sup> Phosphorus	P %	0.026
<sup>2)</sup> Silicon	Si %	0.530
<sup>3)</sup> Nitrogen	N %	0.048

**End of Report**

Form No.: CHM Steel-1 T dd 16/12/2015

## Appendix A

## Summary of Chemical Analysis of Steel

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2252-001

Page 1 of 1

Castco LRN: 210603-2252

Name of Customer: Gate Way Valve &amp; Fitting Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 02-06-2021

Testing Period: 08-06-2021 to 15-06-2021

Castco LRN:	210603-2252				
Specimen No. :	210518-2486-001				
Sample Description :	DN20 Ductile Iron Y-Strainer (Screen)				
Sample Identification No.:	-- / Model No. : Series 861S / Origin : PRC				
Manufacturer :	Waterfront Fluid Controls Ltd. / Brand name: Waterfront				
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401			Test Results	Within / Exceed limit	
Carbon	C	0.07 max.	%	0.033	Within limit
Sulfur	S	0.015 max.	%	<0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.46	Within limit
Manganese	Mn	2.00 max.	%	1.20	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.02	Within limit
Nickel	Ni	10.0 to 13.0	%	10.24	Within limit
Phosphorus	P	0.045 max.	%	0.026	Within limit
Silicon	Si	1.00 max.	%	0.530	Within limit
Nitrogen	N	0.10 max.	%	0.048	Within limit

**Remark(s):**

- 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.

**Test Report  
Chemical Analysis of Steel**

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2253-001

Page 1 of 2

Castco LRN: 210603-2253

**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 : 02-06-2021  
Test Period : 08-06-2021 to 15-06-2021  
Sample Description : DN32 Ductile Iron Y-Strainer (Screen)  
Specification : BS EN 10088-1:2014, Table 2, Grade 1.4401  
Specimen No. : 210518-2486-003  
Sample Identification No. : -- / Model No. : Series 861S / Origin : PRC  
Manufacturer : Waterfront Fluid Controls Ltd. / Brand name: Waterfront

**Test Method(s):-**

- 1) BS EN ISO 15350 : 2010
- 2) ST-Multi-1(ICP-OES)
- 3) BS EN ISO 15351: 2010

**Remark(s):**


I. Test results only relate to the specimen tested.

Checked by :

  
Lau Hiu Yat

Assistant Technical Manager

Approved Signatory :

  
Cheng Chi Fai

Senior Manager

**Test Report  
Chemical Analysis of Steel**

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2253-001

Page 2 of 2

Castco LRN: 210603-2253

<b>Chemical Analysis</b>		<b>Result</b>
<sup>1)</sup> Total Carbon Content	C %	0.032
<sup>1)</sup> Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.42
<sup>2)</sup> Manganese	Mn %	1.20
<sup>2)</sup> Molybdenum	Mo %	2.02
<sup>2)</sup> Nickel	Ni %	10.24
<sup>2)</sup> Phosphorus	P %	0.024
<sup>2)</sup> Silicon	Si %	0.528
<sup>3)</sup> Nitrogen	N %	0.050

**End of Report**

Form No.: CHM Steel-1 T dd 16/12/2015

## Appendix A

## Summary of Chemical Analysis of Steel

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2253-001

Page 1 of 1

Castco LRN: 210603-2253

Name of Customer: Gate Way Valve &amp; Fitting Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 02-06-2021

Testing Period: 08-06-2021 to 15-06-2021

Castco LRN:	210603-2253				
Specimen No. :	210518-2486-003				
Sample Description :	DN32 Ductile Iron Y-Strainer (Screen)				
Sample Identification No.:	-- / Model No. : Series 861S / Origin : PRC				
Manufacturer :	Waterfront Fluid Controls Ltd. / Brand name: Waterfront				
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401			Test Results	Within / Exceed limit	
Carbon	C	0.07 max.	%	0.032	Within limit
Sulfur	S	0.015 max.	%	<0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.42	Within limit
Manganese	Mn	2.00 max.	%	1.20	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.02	Within limit
Nickel	Ni	10.0 to 13.0	%	10.24	Within limit
Phosphorus	P	0.045 max.	%	0.024	Within limit
Silicon	Si	1.00 max.	%	0.528	Within limit
Nitrogen	N	0.10 max.	%	0.050	Within limit

**Remark(s):**

- 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.

**Test Report**  
**Chemical Analysis of Steel**

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2254-001

Page 1 of 2

Castco LRN: 210603-2254

**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 : 02-06-2021

Test Period : 08-06-2021 to 15-06-2021

Sample Description : DN50 Ductile Iron Y-Strainer (Screen)

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

Specimen No. : 210518-2486-005

Sample Identification No. : -- / Model No. : Series 861S / Origin : PRC

Manufacturer : Waterfront Fluid Controls Ltd. / Brand name: Waterfront


**Test Method(s):-**

- 1) BS EN ISO 15350 : 2010
- 2) ST-Multi-1(ICP-OES)
- 3) BS EN ISO 15351: 2010

**Remark(s):**

- I. Test results only relate to the specimen tested.

Checked by :

  
Lau Hiu Yat  
Assistant Technical Manager

Approved Signatory :

  
Cheng Chi Fai  
Senior Manager

**Test Report**  
**Chemical Analysis of Steel**

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2254-001

Page 2 of 2

Castco LRN: 210603-2254

Chemical Analysis		Result
<sup>1)</sup> Total Carbon Content	C %	0.032
<sup>1)</sup> Total Sulfur Content	S %	<0.0020
<sup>2)</sup> Chromium	Cr %	17.56
<sup>2)</sup> Manganese	Mn %	1.22
<sup>2)</sup> Molybdenum	Mo %	2.02
<sup>2)</sup> Nickel	Ni %	10.33
<sup>2)</sup> Phosphorus	P %	0.024
<sup>2)</sup> Silicon	Si %	0.535
<sup>3)</sup> Nitrogen	N %	0.049

**End of Report**

Form No.: CHM Steel-1 T dd 16/12/2015



## Appendix A

## Summary of Chemical Analysis of Steel

Date of issue: 18-06-2021

Specimen No.: CHEM-210603-2254-001

Page 1 of 1

Castco LRN: 210603-2254

Name of Customer: Gate Way Valve &amp; Fitting Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 02-06-2021

Testing Period: 08-06-2021 to 15-06-2021

Castco LRN:	210603-2254				
Specimen No. :	210518-2486-005				
Sample Description :	DN50 Ductile Iron Y-Strainer (Screen)				
Sample Identification No.:	-- / Model No. : Series 861S / Origin : PRC				
Manufacturer :	Waterfront Fluid Controls Ltd. / Brand name: Waterfront				
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401			Test Results	Within / Exceed limit	
Carbon	C	0.07 max.	%	0.032	Within limit
Sulfur	S	0.015 max.	%	<0.0020	Within limit
Chromium	Cr	16.5 to 18.5	%	17.56	Within limit
Manganese	Mn	2.00 max.	%	1.22	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.02	Within limit
Nickel	Ni	10.0 to 13.0	%	10.33	Within limit
Phosphorus	P	0.045 max.	%	0.024	Within limit
Silicon	Si	1.00 max.	%	0.535	Within limit
Nitrogen	N	0.10 max.	%	0.049	Within limit

**Remark(s):**

- 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.