

BRAND : “ CC ”

**PRODUCT : DUCTILE IRON GATE VALVE & CHECK
VALVE**

DESCRIPTION : PLUMBING INSTALLATION

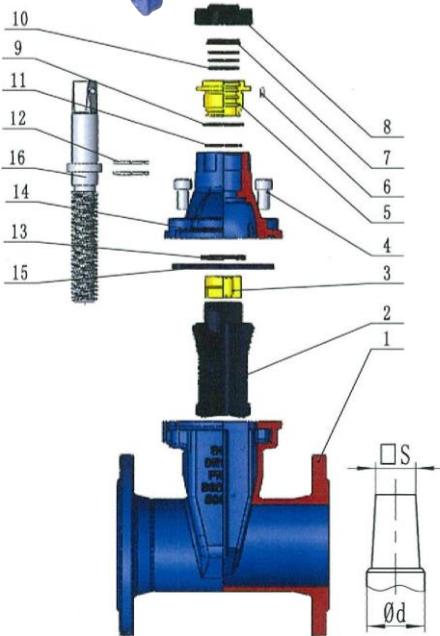
CC

Resilient Seated Ductile Iron Sluice Valve

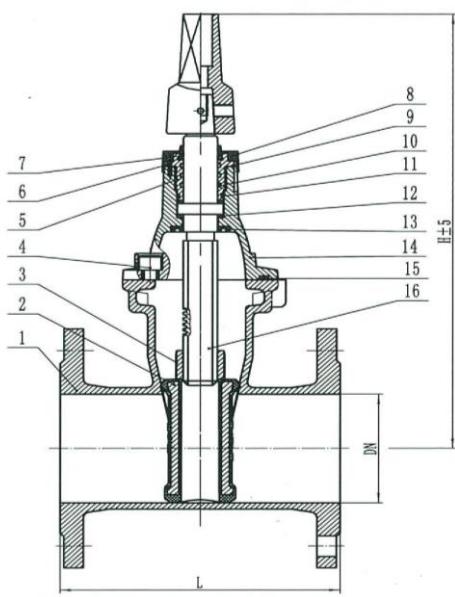
**comply to BS 5163-1:2004, BS 5163-2:2004, BS EN 1074-1:2000,
BS EN 1074-2:2000, flanged ends to BS EN 1092-2, PN16**



- For Water, Sewage and Neutral Liquids
- Working Temperature -10° to +70°
- Maximum Working Pressure 16 bars
- Finishes fusion bonded epoxy coated (Min. 250μ DFT)
- Operation method by manual operated clockwise closing
(Optional counterclockwise closing available upon request)
- Ductile Iron Wedge fully vulcanised with EPDM
- Straight through bore ensures optimum flow characteristics
- Watertight sealing by compression of the rubber without friction
- O-ring stem seals replaceable in open position under full operating condition
- Allow inspection and replacement of gate without removing valve from the pipeline



S/No	Part Name	Material	S/No	Part Name	Material
1	Body	Ductile Iron, GGG50	9	O-ring I	EPDM
2	Wedge	Ductile Iron, GGG50 / EPDM	10	O-ring II	EPDM
3	Stem Nut	DZR Brass	11	O-ring III	EPDM
4	Hexagon Bolt	Zinc Plated Steel / S/Steel	12	Wear Resistance O-ring	PTFE
5	Sealing Nut	DZR Brass	13	Anti Dust O-ring II	EPDM
6	Bolt	SS304	14	Bonnet	Ductile Iron, GGG50
7	Anti Dust O-ring I	EPDM	15	Sealing Gasket	EPDM
8	Anti Dust Cap	EPDM	16	Stem	2Cr13



Nominal Size (DN)		Height (H)	Face-to-face (L)	No. Hole Ø Size	(S)	(Ød)	Approx. Weight
mm	Inch	mm	mm	mm	mm	mm	kg
50	2"	301	178	4-Ø19	17.3	20	9.6
80	3"	353	203	8-Ø19	17.3	24	13.4
100	4"	406	229	8-Ø19	19.3	28	20
150	6"	484	267	8-Ø23	19.3	28	34
200	8"	580	292	12-Ø23	24.3	30	58
250	10"	670	330	12-Ø28	27.3	36	82
300	12"	759	356	12-Ø28	27.3	36	114

Note: DN350 ~ DN500 only available upon request

GRANDE ALLIANCE CORPORATION PTE LTD

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🌐 www.grandealliance.com.sg ✉️ info@grandealliance.com.sg

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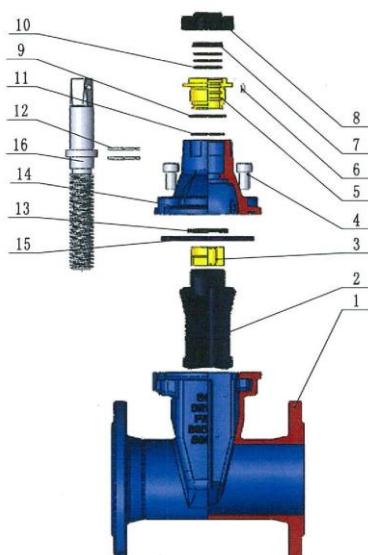
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Resilient Seated Ductile Iron Gate Valve

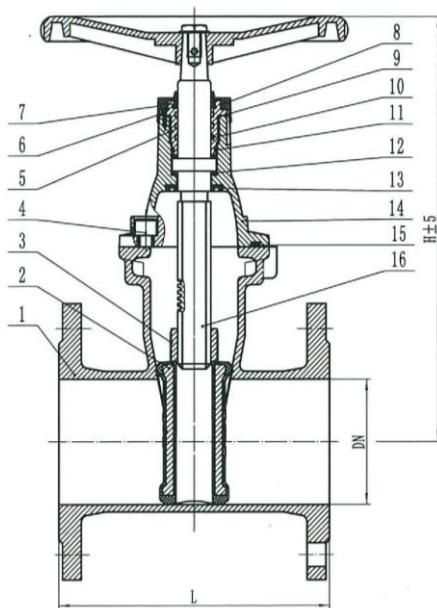
**comply to BS 5163-1:2004, BS 5163-2:2004, BS EN 1074-1:2000,
BS EN 1074-2:2000 (Non-Rising Stem)**



- For Water, Sewage and Neutral Liquids
- Working Temperature -10° to +70°
- Maximum Working Pressure 16 bars
- Finishes fusion bonded epoxy coated (Min. 250µ DFT)
- Operation method by manual operated clockwise closing
(Optional counterclockwise closing available upon request)
- Ductile Iron Wedge fully vulcanised with EPDM
- Straight through bore ensures optimum flow characteristics
- Watertight sealing by compression of the rubber without friction
- O-ring stem seals replaceable in open position under full operating condition
- Allow inspection and replacement of gate without removing valve from the pipeline



S/No	Part Name	Material	S/No	Part Name	Material
1	Body	Ductile Iron, GGG50	9	O-ring I	EPDM
2	Wedge	Ductile Iron, GGG50 / EPDM	10	O-ring II	EPDM
3	Stem Nut	DZR Brass	11	O-ring III	EPDM
4	Hexagon Bolt	Zinc Plated Steel / S/Steel	12	Wear Resistance O-ring	PTFE
5	Sealing Nut	DZR Brass	13	Anti Dust O-ring II	EPDM
6	Bolt	SS304	14	Bonnet	Ductile Iron, GGG50
7	Anti Dust O-ring I	EPDM	15	Sealing Gasket	EPDM
8	Anti Dust Cap	EPDM	16	Stem	2Cr13



Nominal Size (DN)		Height (H)	Face-to face (L)	No. Hole Ø Size	Approx. Weight
mm	Inch	mm	mm	mm	kg
50	2"	236	178	4-Ø19	9.6
80	3"	295	203	8-Ø19	13.4
100	4"	343	229	8-Ø19	20
150	6"	421	267	8-Ø23	34.5
200	8"	513	292	12-Ø23	59.1
250	10"	606	330	12-Ø28	83
300	12"	695	356	12-Ø28	115

Note: DN350 ~ DN500 only available upon request

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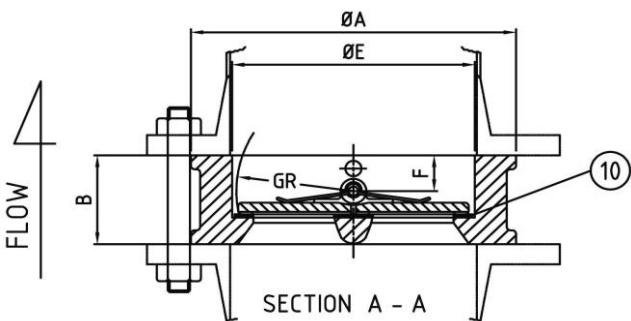
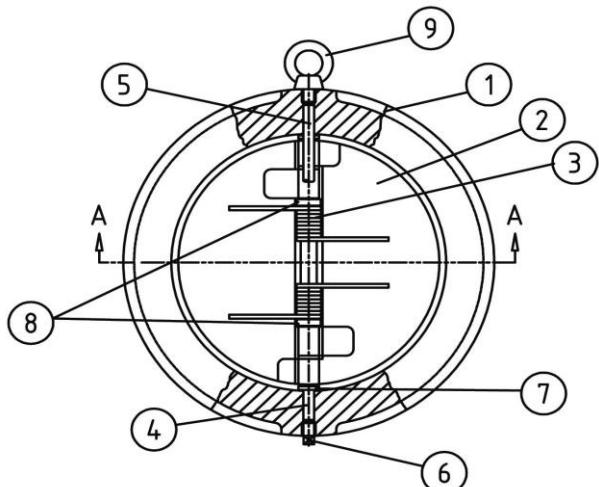
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CC

Ductile Iron Wafer Check Valve

comply to BS EN 16767:2016



- Small in size, easy to install and maintain
- Two torsion springs are used on each of the disc plate, which close the disc quickly & automatically
- The quick-close action prevents the medium from flowing back and eliminates water hammering effect
- High quality Ductile Iron material, fusion bonded internally and externally
- Valve operates in both horizontal and vertical positions
- Suitable for Water, Warm water & Weak Acid

S/No	Part Name	Material
1	Body	Ductile Iron
2	Disc	CF8
3	Spring	SS304 / SS316
4	Hinge Pin	SS304 / SS316
5	Stop Pin	SS304 / SS316
6	Plug	Carbon Steel
7	Body Bearing	SS304 / PTFE
8	Spring Bearing	SS304 / PTFE
9	Eye Bolt	Carbon Steel
10	Body Seat	EPDM / NBR

Note: Lifting eye bolt is fitted for size DN200 & above

Nominal Pipe Size		External Diameter PN10/16 ØA	Internal Diameter ØE	Face To Face B	Max. Working Pressure	Max. Working Temp.
mm	Inch	mm	mm	mm	Bar(10°C)	°C
50	2"	107	65	43	16	70
65	2.5"	127	80	46	16	70
80	3"	142	94	64	16	70
100	4"	165	117	64	16	70
125	5"	192	145	70	16	70
150	6"	218	170	76	16	70
200	8"	273	224	89	16	70
250	10"	328	265	114	16	70
300	12"	378	310	114	16	70
350	14"	438	360	127	10	70
400	16"	489	410	140	10	70

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TEST REPORT: 7191101310-CHM14-06-EO

Date: 17 DEC 2014

Tel: +65 68851291 Fax: +65 67784301

Client's Ref:

Email: huayi.chen@tuv-sud-psb.sg

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SUBJECT

Metal toxicity test of fitting to meet the requirements and compliance to AS/NZS 4020:2005 Appendix H.

CLIENT

CHONG CHEONG FOUNDRY WORKS PTE LTD
32 Benoi Place
Singapore 629949

Attn: Aaron Wan

SAMPLE SUBMISSION / TESTING DATE

18 NOV 2014 / 19 NOV 2014

DESCRIPTION OF SAMPLE

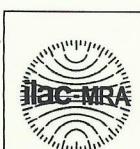
Two pieces of cut samples described as "CC" Brand Ductile Iron Materials for DI Gate Valve and DI Check Valve were tested. Each piece of the sample consisted of an approximate surface area of 20900mm².



METHOD OF TEST

AS/NZS 4020:2005 Products for use in contact with drinking water. (To be evaluated in accordance with WHO Guidelines for Drinking-Water Quality – Fourth Edition 2011)

- 1) Sample Preparation – Appendix A.
 - 2) Scaling Factor – Derivation and Application, Appendix B.
- Test Method – Extraction of Metals, Appendix H (Elemental Analysis by ICP-MS).



LA-2007-0380-A
LA-2007-0381-F
LA-2007-0382-B
LA-2007-0383-G
LA-2007-0384-A
LA-2007-0385-E
LA-2007-0386-C
LA-2010-0464-D
FFT-2013-0002-A
LA-2007-0383-G-1

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.

Laboratory:
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Singapore 118221

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Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
TUV®



RESULTS

Items	Sample Marked	“CC” Brand Ductile Iron Materials for DI Gate Valve and DI Check Valve (7 th Extraction)		Requirements
	Elements (unit = mg/litre)	Sample 1	Sample 2	Table A3.3 Guideline values for Chemicals that are of Health Significance in Drinking-Water (Guideline Value mg/litre)
1	Antimony, Sb	< 0.003	< 0.003	0.02
2	Arsenic, As	< 0.007	< 0.007	0.01
3	Barium, Ba	< 0.01	< 0.01	0.7
4	Cadmium, Cd	< 0.001	< 0.001	0.003
5	Chromium, Cr	< 0.01	< 0.01	0.05
6	Copper, Cu	< 0.1	< 0.1	2
7	Lead, Pb	< 0.01	< 0.01	0.01
8	Mercury, Hg	< 0.001	< 0.001	0.006
9	Molybdenum, Mo	< 0.01	< 0.01	0.05 *
10	Nickel, Ni	< 0.01	< 0.01	0.07
11	Selenium, Se	< 0.01	< 0.01	0.04
12	Silver, Ag	< 0.01	< 0.01	0.1 *

Note:

< : Less than

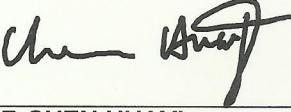
* : The requirements for Molybdenum (Mo) and Silver (Ag) are taken from AS/NZS 4020:2005 Table 2 Maximum Allowable Concentrations of Metals.

Scaling Factor : Not applied, the product was tested by immersion method. Each sample with an approximate surface area of 20900mm² respectively were exposed to 1 litre of test water

REMARKS

- Both “Sample 1” and “Sample 2” water extracts satisfied the WHO Guideline values for Drinking-Water Quality (2011) with respect to the 12 itemized toxic metals.
- The results stated in this report relate to sample or samples of the product submitted for testing. Any changes in the material formulation, the process manufacture, the method of application, or the surface area-to-volume ratio in the end use, could affect the suitability of the product for the use in contact with drinking water.


MS ELSIE OW
TECHNICAL EXECUTIVE


DR CHEN HUAYI
ASSISTANT VICE PRESIDENT
ELEMENTAL AND ENVIRONMENTAL ANALYSIS
CHEMICAL & MATERIALS

TEST REPORT: 7191101310-CHM14-06-EO
17 DEC 2014

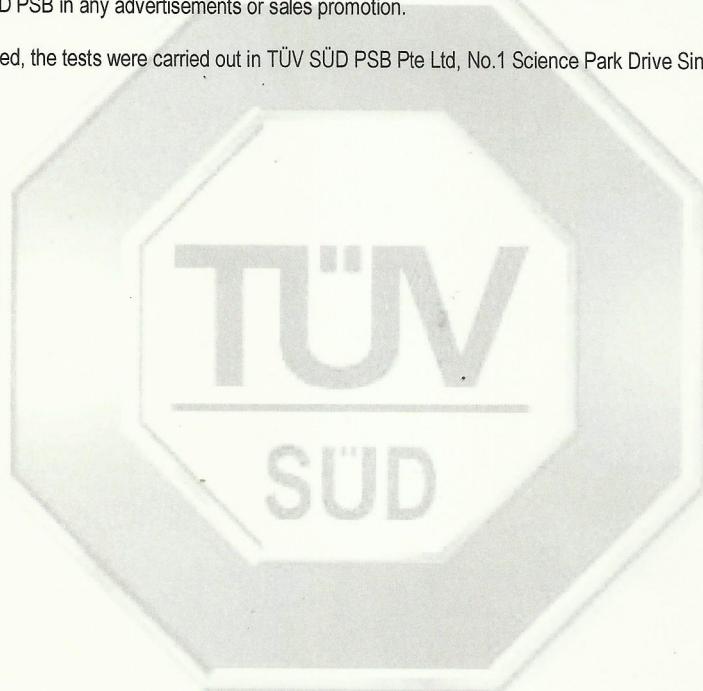


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July 2011



Test Report No. 7191101310-MEC14/3-SBT

Date: 17 NOV 2014

Tel: +65 68851292 Fax: +65 68720726

Client's Ref:

Email: beng-thai.shau@tuv-sud-psb.sg



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SUBJECT

Microstructural examination of ductile iron gate valve and check valve

TESTED FOR

Chong Cheong Foundry Works Pte Ltd
32 Benoi Place
Singapore 629949

Attn: Mr Aaron Wan

SAMPLE DESCRIPTION

Ductile iron gate valve and check valve
Brand: CC

DATE SUBMITTED

17/11/2014

METHOD OF TEST

The test specimen was sectioned from the sample submitted and the microstructure of the test specimen was evaluated in accordance to BS EN 545: 2010 Specifications for ductile iron pipes, fittings, accessories and their joints for water pipelines.



TÜV SÜD PSB

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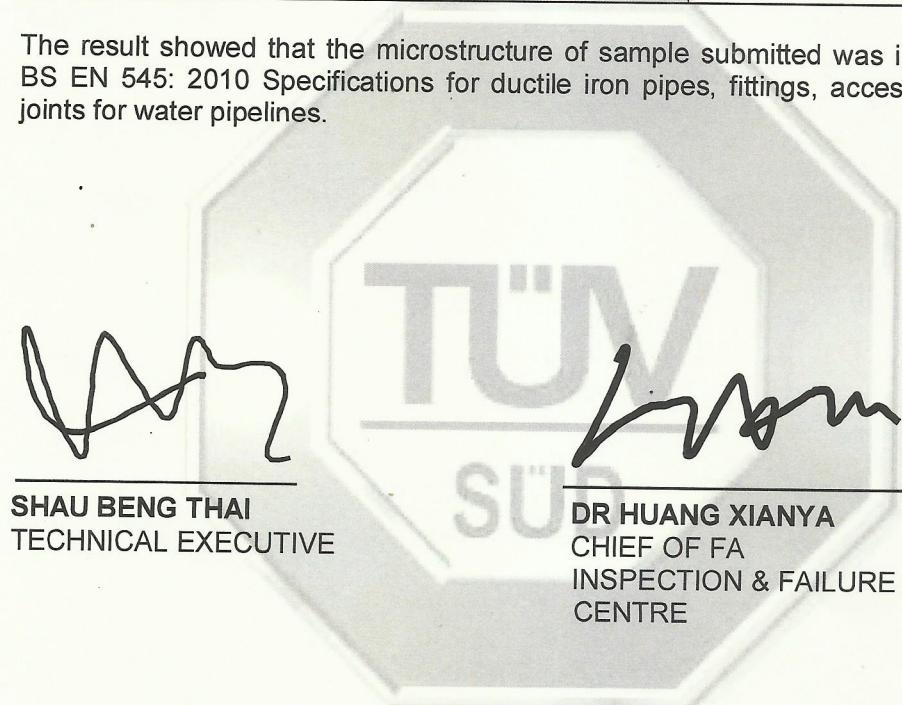
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3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
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RESULTS

Microstructural Examination

Sample	Microstructure	BS EN 545: 2010
Ductile iron gate valve and check valve	Spheroidal graphite, pearlite and ferrite (See Fig. 1)	Cast iron used for pipes, fittings and accessories in which graphite is present substantially in spheroidal form.

The result showed that the microstructure of sample submitted was in compliance to BS EN 545: 2010 Specifications for ductile iron pipes, fittings, accessories and their joints for water pipelines.



SHAU BENG THAI
TECHNICAL EXECUTIVE

DR HUANG XIANYA
CHIEF OF FA
INSPECTION & FAILURE ANALYSIS
CENTRE

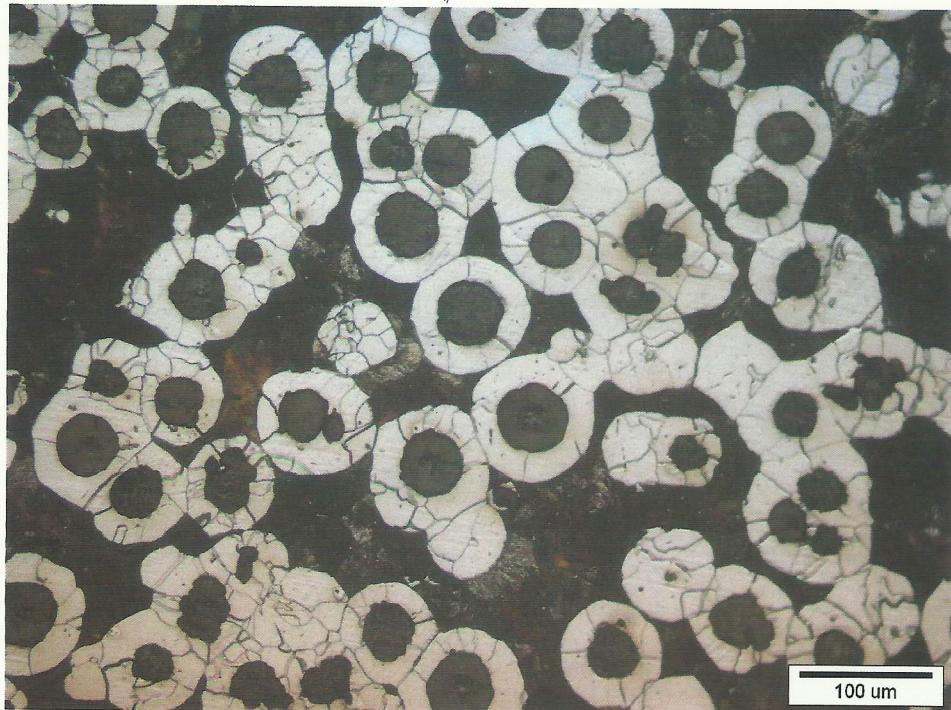


Fig. 1 Optical micrograph showing the microstructure of ductile iron gate and check valve.

Test Report No. 7191101310-MEC14/3-SBT
dated 17 NOV 2014



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July 2011

Test Report No. 7191101310-MEC14-02-CYW
dated 16 DEC 2014

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SUBJECT:

Testing of " CC " Brand ductile iron wafer check valves submitted by Chong Cheong Foundry Works Pte Ltd

TESTED FOR:

Chong Cheong Foundry Works Pte Ltd
32, Benoi Place
Singapore 629949

Attn: Mr.Aaron Wan

TEST METHOD:

1. BS 6755 : 1986: Testing of valves:Part 1 " Specification for production pressure testing requirements."
2. BS 5153: 1974: " Specification for cast iron check valves for general purposes".

SAMPLE DESCRIPTION:

Six No of ductile iron wafer check valves said to be " CC " brand of size 80mmØ, 100mmØ, 150mmØ, 200mmØ, 250mmØ and 300mmØ were received.

TESTS CONDUCTED:

- 1 Hydrostatic pressure.
- 2 Microstructure test– Test report will issued separately
- 3 Metal toxicity– Test report will issued separately
- 4 Water effect test on epoxy coating - Test report will issued separately
- 5 Water effect test on rubber material - Test report will issued separately

EMBOSSSED MARKINGS ON VALVE BODY:

CC BS 5153 DI PN16
DN 80, DN 100, DN 150, DN 200 , DN 250, DN 300



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3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
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RESULTS:

Hydrostatic Pressure Test

Sample Reference	" CC " brand				BS 6755: Part.1 : 1986 & BS 5153:1974 Requirements
	80mmØ	100mmØ	150mmØ	200mmØ	
Closed-end valve seat test	Satisfactory-No sign of visible surface leakage was observed.				Test pressure of 17.6 bar was maintained for a minimum test duration of 30 seconds for DN 65 to DN 200
Hydrostatic body pressure test	Satisfactory-No sign of visible surface leakage was observed.				Test pressure of 24.0 bar was maintained for a minimum test duration of 60 seconds for DN 65 to DN 200

Sample Reference	" CC " brand		BS 6755: Part.1 : 1986 & BS 5153:1974 Requirements
	250mmØ	300mmØ	
Closed-end valve seat test	Satisfactory-No sign of visible surface leakage was observed.		Test pressure of 17.6 bar was maintained for a minimum test duration of 60 seconds for DN 65 to DN 200
Hydrostatic body pressure test	Satisfactory-No sign of visible surface leakage was observed.		Test pressure of 24.0 bar was maintained for a minimum test duration of 180 seconds for DN 250 to DN 450

CONCLUSION:

The above results of the tested sample meet the requirements of BS 6755 :Part.1 : 1986 & BS 5153:1974 specification.



Cliff Yew
Senior Associate Engineer

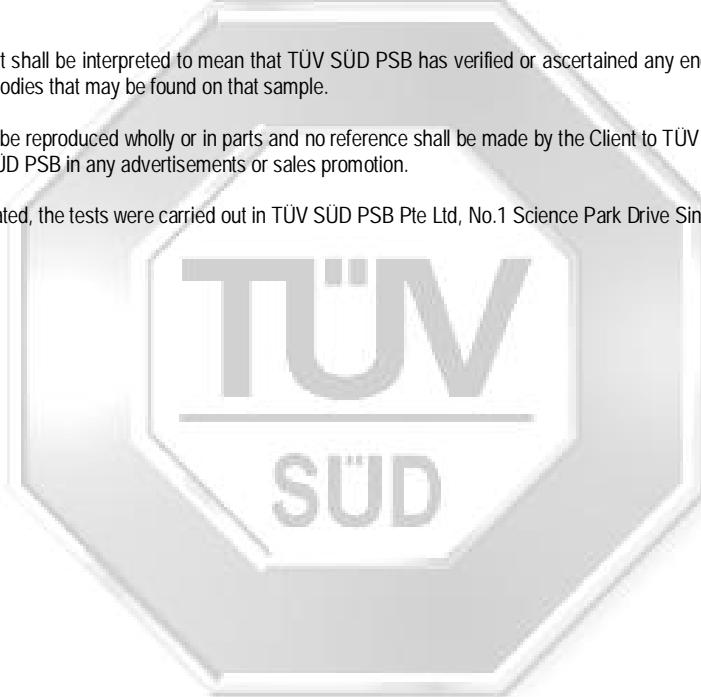


Kyle Seet
Engineer
Industrial Group
Mechanical Centre

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July 2011





Date: 27/10/2021

M/s. SUNBEAM M&E PTE LTD

Dear Sir / Madam,

Kindly be informed that we had supplied and are supplying our "CC" brand Ductile Iron Pipe Fittings to BSEN598 and BSEN545 to the following projects:-

PROJECT REFERENCES

S/No.	PROJECT	OWNER	MAIN CONTRACTOR	M & E CONSULTANT	YEAR of TOP
1	West Mall Shopping Centre		Kumagai Gumi Co Ltd		1998
2	Summerlea Garden at Kismis Avenue		Keong Hong Constrn		1998
3	Nanyang Polytechnic Phase 3 at Ang Mo Kio Avenue 5		JDC/ Kim Seng Heng JV		1998
4	Duchess Crest condominium at duchess Avenue		Kumagai Gumi Co Ltd		1998
5	Paya Lebar Methodist Church at Boundary Road		Hexacon Constrn P L		1998
6	Anderson Condominium at Walshe Road	Lumeric Pte Ltd	Kumagai Gumi Co Ltd		2000
7	Pantech Industrial Complex	City Developments Ltd	Mitsui Constrn Co Ltd		1995
8	Dover MRT @ Singapore Polytechnic	Land Transport Authority	Kumagai Gumi Co., Ltd		1998 - 2001
9	The Sterling condominium at Bukit Timah Road		Dragages Et Travaux Public P L		2000
10	6-Storey Food factor with 1 level basement at Kampong Ampat		Semtec Constr P L		1997
11	Equatorial Condominium at Stevens Road	City Developments Ltd	Dragages Et Travaux Public (S) Pte Ltd		2001
12	Central View at Hougang Street 11	Hougang View Pte Ltd	Hexacon Construction Pte Ltd		2002
13	12 Sty Residential Bldg at Holt Road	CPL Ventures Pte Ltd	Santarli Construction Pte Ltd		2001



S/No.	PROJECT	OWNER	MAIN CONTRACTOR	M & E CONSULTANT	YEAR of TOP
14	Starhub Centre (formerly Cuppage Centre)	Cuppage Centre P/L	Sato Kogyo Co Ltd		1999
15	Ardmore Park condominium	MP-Bilt Pte Ltd	Shimizu Corporation		2001
16	HDB Hub @ Toa Payoh	Housing and Development Board	Shimizu Corporation		2002
17	Freesia Woods	Keppel Land Ltd	Santarli Construction Pte Ltd		2003
18	Setia Mansion at No.11 Evelyn Road	Setia Pte Ltd	Penta-Ocean Construction Co Ltd		2005
19	East Meadows condominium	Tanamera Heights Pte Ltd	Poh Lian Construction Pte Ltd		2001
20	Hillview Regency Condo at Bukit Batok	Hillview Regency Pte Ltd	Poh Lian Construction Pte Ltd		2006
21	2RVG Condominium at River Valley Road	Affluence Properties Pte Ltd			2006
22	LDS Church at 253 Bukit Timah Road	The Church Jesus Christ Latter Day Saint	Wee Hur Construction Pte Ltd		2006
23	Lasalle SIA College	Takenaka Corporation	Lasalle Foundation Limited		2008
24	Singapore Flyer Project	Singapore Flyer Pte Ltd	Takenaka Corporation		2008
25	Marine Club House @ Sentosa Cove	Sutl Marina Development Pte Ltd	Kim Seng Heng Engineering Construction (Pte) Ltd		2007
26	Xilinx Project @ Changi Business Park Vista	Xilinx Asia Pacific Pte Ltd	Bovis Lend Lease Pte Ltd		2007
27	Tribeca Condominium	City Developments Ltd	Tiong Seng Contractors (Pte) Ltd		2010
28	Straits Trading Building	Straits Trading Pte Ltd	Obayashi Corporation		2010
29	Sky at Eleven Condominium at Thomson Road	Times Development Pte Ltd	Tiong Seng Contractors (Pte) Ltd		2011
30	City Square Mall @ Kitchener Road	City Developments Ltd	Kajima Overseas Asia Pte Ltd		2010
31	One North Residences	Vista Development Pte Ltd	Low Keng Huat (Singapore) Ltd		2012
32	Carlton Hotel	Carlton Properties (Spore) Pte Ltd	Shimizu Corporation		2011
33	Marina Bay Residence at Marina Boulevard Road	Marina Bay Residences Pte Ltd	Woh Hup (Pte) Ltd		2010



S/No.	PROJECT	OWNER	MAIN CONTRACTOR	M & E CONSULTANT	YEAR of TOP
34	The Metropolitan @ Alexandra Road	Tanglin Residential Pte Ltd	Nakano Singapore (Pte) Ltd		2009
35	Latitude Condominium at Jalan Mutiara	Phoenix Realty Pte Ltd	Nakano Singapore (Pte) Ltd		2011
36	Singapore Driving Test Centre at Woodlands	Chip Eng Seng Contractors (1988) Pte Ltd	Singapore Safety Driving Centre Ltd		2010
37	St Thomas Suites	FCL Tower Pte Ltd	Nakano Singapore (Pte) Ltd		2011
38	One Shenton Way Condominium	Cpl Land Pte Ltd	Hyundai Engineering & Construction Co Ltd		2011
39	Soleil @ Sinaran	Riverside Investments Pte Ltd	China Construction (South Pacific) Development Co Pte Ltd		2012
40	Viva Condominium @ Thomson	Thomson Pek Pte Ltd	Tiong Aik Construction Pte Ltd		2012
41	Livia Condominium @ Pasir Ris	Hong Realty (Pte) Ltd	Hyundai Engineering & Construction Co Ltd		2011
42	Ocean Tower	Ocean Properties Pte Ltd	Takenaka Corporation		1992
43	CCRC at Rochester Drive				
44	Asia Square Tower Office Block	Asia Square Tower 2 Pte Ltd	Hyundai Engineering & Construction Co Ltd		2014
45	Martin Place Residences	FCL Land Pte Ltd	Keong Hong Construction Pte Ltd		2012
46	The Sage @ Nassim Road	Hong Leong Holdings Ltd	Woh Hup Pte Ltd		2012
47	Campus for Research Excellence & Technological Enterprise (Create)	National Research Foundation			2012
48	NUS – UTD Graduate Resident Project	National University of Singapore	Shimizu Corporation		2012
49	d' Leedon @ Empress Road	Morganite Pte Ltd (CapitaLand)	Woh Hup (Pte) Ltd		2013 - 2015
50	Marina Bay Suites	Marina Bay Suites Pte Ltd	Woh Hup (Pte) Ltd		2013
51	NV Residences	Hong Realty (Pte) Ltd	Hyundai Engineering & Construction Co Ltd		2013



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52	Seven Palms Sentosa Cove	Trollius Pte. Ltd.			2010
53	The Laurels @ Cairnhill Road				2013
54	Centennia Suites @ Kim Seng Road	Lippo Real Estate Pte Limited			2012
55	Miltonia Residences @ Yishun Avenue	Hoi Hup Sunway Development Pte Ltd	Straits Construction Singapore Pte Ltd		2015
56	Boulevard Vue	High Oak Properties Pte Ltd	China Construction (South Pacific) Development Co Pte Ltd		2014
57	Carlton City Hotel Singapore @ Tanjong Pagar	Carlton Properties (Spore) Pte Ltd	Kajima Overseas Asia Pte Ltd		2013
58	BreadTalk IHQ @ Paya Lebar iPark	BreadTalk Group Limited			2011 - 2013
59	National Heart Centre	Ministry of Health	Shimizu Corporation		2014
60	Oue Twin Peaks	Cove Development Pte Ltd / Overseas Union Enterprises Ltd	Hyundai Engineering & Construction Co Ltd		2015
61	Atrium @ Orchard	CapitaMall Trust Management Ltd	Obayashi Corporation		2012
62	Singapore Sports Hub	Sportshub	Dragages Singapore Pte Ltd		2014
63	Leedon Residence	Guocoland (Singapore) Pte Ltd (Leedon Residence Development Pte Ltd)	Woh Hup Pte Ltd		2016
64	RV Residences	Asiawide Resources Pte Ltd	Lee Kim Tah - Woh Hup JV		2014
65	The Palette @ Pasir Ris Grove	City Developments Limited	Woh Hup (Private) Limited		2014 - 2016
66	Halliburton (phase 1 & 2)	Halliburton Far East Pte Ltd	Obayashi Corporation		2012 - 2014
67	The Seawind @ Telok Kurau	Bayshore Green Pte Ltd			2013 -2015
68	Bartley Residences @ Bartley Road	Bartley Development Pte Ltd	Woh Hup Pte Ltd		2013 - 2015
69	Microsoft SG2 Data Centre		Obayashi Corporation		2012 - 2014
70	Jurong West Gate	Jg Trustee Pte Ltd & Jg 2 Trustee Pte Ltd	Shimizu Corporation		2011- 2014



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71	Kingsford WaterBay @ 11 upper Serangoon View	Kingsford Development Pte Ltd	Kingsford Development Pte Ltd	United Projects Consultants Pte Ltd	2015 - 2018
72	Robin Residences @ Robin Drive	Sing Holdings Limited (Sing Holdings (Robin) Pte Ltd)	Daiya Engineering Construction Pte Ltd		2014 - 2016
73	Capitagreen @ 138 Market Street	Capitaland Ltd	Takenaka Corporation		2012-2015
74	Safra Punggol	SAFRA National Service Association	Hyttech Builders Pte Ltd		2014 - 2016
75	Shaw Centre Renovation				2015 - 2016
76	Waterway Point & Water Town @ Punggol	Far East Organization, Frasers Centrepoint, Sekisui House Ltd	Hyundai Engineering & Construction Co.Ltd		2013 - 2017
77	M2 Macpherson Mall	LVND Investments Pte Ltd		PCA Consulting Engineers	2016 - 2018
78	New Futura Condo @ Leonie Hill Road	City Development Ltd	Dragages Singapore		2015 - 2017
79	Cairnhill Nine (Mixed Development at Cairnhill)	Capitaland Singapore Limited (CH Residential Pte Ltd)	Woh Hup Pte Ltd		2014 - 2016
80	KAP @ King Albert Park Residence	Oxley Sanctuary Pte Ltd			2015 - 2017
81	Duo Residences – Mix Development @ Ophir Road	M+S Pte Ltd (Ophir-Rocher Residential Pte Ltd, Ophir-Rocher Commercial Pte Ltd, Ophir-Rocher Hotel Pte Ltd)	Obayashi Corporation	Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd	2013 - 2017
82	Oxley Tower @ 138 Robinson Road	Oxley Holding Limited	Lian Beng Construction (1988) Pte Ltd	Squire Mech Pte Ltd	2013 - 2016
83	The Maisons@ Braddell Road	Global Star Developement PTE LTD (Top Global Limited)	Penta-Ocean Construction Co Ltd		2015 - 2017
84	Goodwood Grand @ 16 Balmoral Road	Tong Eng Group (Feature (Balmoral) Pte Ltd)	Soil-Build (Pte) Ltd		2015 - 2018
85	Stratum @ Elias Road	Elitist Development Pte. Ltd			2014 - 2016
86	Mercure Hotel @ 122 Middle Road				2014 - 2017



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87	The Panorama @ Ang Mo Kio Avenue 2	Wheelock Properties (Singapore) Limited	Tiong Seng Contractors (Private) Limited	United Projects Consultants Pte Ltd	2014 - 2017
88	Bellewaters EC – Executive Condominium @ Anchorvale Crescent	QINGJIAN REALTY (South Pacific) Group Pte Ltd			2014 - 2017
89	Marina Square Renovation				2015 - 2016
90	JTC Space @ Tampines North	JTC Corporation	Sanchoon Builders Pte Ltd	Aecom Singapore Pte Ltd	2014 - 2016
91	Proxima @ Gambas Crescent		Chan Rong Fen Building Construction Pte Ltd	PDC Consulting Engineers	2015 - 2017
92	Workers Recreation Center @ Tuas	JTC Corporation	Hon Industries Pte Ltd		2014 - 2017
93	Workers Recreation Center @ Jalan Terusan	JTC Corporation	Hon Industries Pte Ltd		2014 - 2016
94	Micron @ North Coast Drive				2015 - 2017
95	Skyvue Condo @ Bishan Street 15	CapitaLand Residential Limited	Dragages Singapore Pte Ltd	Belmacs Pte Ltd	2013 - 2016
96	Amber Skye Condo @ 8 Amber Road	China Sonangol Land Pte Ltd (CS Amber Development Pte Ltd)	Kimly Construction Pte Ltd		2015 - 2017
97	Sengkang General and Community Hospital	Ministry of Health	Penta-Ocean Construction Company Limited	WSP Consultancy Pte Ltd	2014 - 2018
98	JTC Space @ Gul Circle	JTC Corporation	LBD Engineering Pte Ltd	Mott MacDonald Singapore Pte Ltd	2015 - 2017
99	JTC Chemical Hub @ Tuas South Ave 5	JTC Corporation	Tat Hin Builders Pte Ltd	Arup Singapore Pte Ltd	2014 - 2016
100	Yishun Community Hospital	Ministry of Health	Shimizu Corporation		2013 - 2016
101	SOL ACRES EC @ Choa Chu Kang Grove	MCL Land Limited	Tiong Seng Contractors (Private) Limited	Rankine and Hill (S) Pte Ltd	2015 - 2019
102	Newest @ West Coast	Oxley Viva Pte Ltd	Kim Seng Heng Engineering Construction (Pte) Ltd		2014 - 2016
103	Spottiswoode Suites @ 12 Spottiswoode Park Road	Lian Beng Group Ltd	Millennium International Builders	KTP Consultants Pte Ltd	2013 - 2016



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104	Land Preparation Works for Airport Development - Terminal 5	Ministry of Transport		Penta-Ocean Construction Co., Ltd.	2015 - 2020
105	Construction of Vehicular Underpass at Nicoll Highway / Guillemand Road Junction – ER403	Land Transport Authority	Sato Kogyo (S) Pte Ltd		
106	Global Indian International School @ Punggol Field Walk	Global Indian International School Pte Ltd	Hon Industries Pte Ltd	Mott MacDonald Singapore Pte Ltd	2016 - 2017
107	Changi General Hospital	Ministry of Health	Kimly-Shimizu Joint Venture	WSP Consultancy Pte Ltd	2014 - 2017
108	Gramercy Park @ 57 Grange Road	City Developments Limited (Aston Properties Pte Ltd)	Hyundai Engineering & Construction Co.Ltd		2013 - 2016
109	Laguna Hotel @ 11 Laguna Golf Green	Laguna National Golf & Country Club	WSP Ng Pte Ltd	Shanghai Chong Kee Furniture & Construction Pte Ltd	2014 - 2017
110	Whampoa Community Centre - Upgrade	Ministry of Social and Family Development (MSF)			2017 - 2018
111	NUH Centre for Oral Health	National University Hospital	Obayashi Corporation	Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd	2016 - 2018
112	Telin Singapore Data Centre and Telecommunication Hub @ Sunview Drive	Telin Singapore	Sato Kogyo (S) Pte Ltd	Meinhardt (Singapore) Pte Ltd	2015 - 2016
113	SingTel Data Center @ Yung Ho Road	Singtel Singapore Pte Ltd	Kienta Engineering Construction Pte Ltd	DSCO Group Pte Ltd	2015 - 2016
114	Kampung Admiralty @ Woodlands Drive 71	Housing and Development Board	Aecom Singapore Pte Ltd	Lum Chang Building Contractors Pte Ltd	2014 - 2017
115	Tanjong Pagar Centre @ Peck Seah Street	GUocoland (Singapore) Pte Ltd	Samsung C&T Corporation		2013 - 2017
116	Singapore Power East West Transmission Cable Tunnel Contract - EW1 @ North Buona Vista	SP Power Assets Ltd (SPPA)	Obayashi Corporation		2012 - 2016
117	Hawker Center @ Woodland Street 12	National Environment Agency	Conint Pte Ltd	J.M. Pang & Seah Pte Ltd	2016 - 2017



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118	Fajar Secondary School @ 31 Gangsa Road	Ministry of Education	Kwan Yong Construction Pte Ltd	CPG Consultants Pte Ltd	2016 - 2017
119	Ulu Pandan Bus Depot	Land Transport Authority	Tiong Seng Contractors (Private) Limited	Rankine and Hill (S) Pte Ltd	2016 - 2019
120	Sungei Seletar Bus Depot	Land Transport Authority	Tiong Seng Contractors (Private) Limited		2015 - 2017
121	ICPH @ Airport Road		Soil-Build (Pte) Ltd		2016 - 2018
122	Northpoint City & North Park Residences @ Yishun	Frasers Centrepoint Ltd	Lum Chang Building Contractors Pte Ltd	Aecom Singapore Pte Ltd	2015 - 2018
123	Kreta Ayer Community Club - Upgrade	People's Association	Fucom Construction Pte Ltd		2015 - 2016
124	Factory @ 21 Fan Yoong Road	Tiong Seng Contractors (Private) Limited	Tiong Seng Contractors (Private) Limited	Rankine and Hill (S) Pte Ltd	2016 - 2018
125	PTC @ 39 Tuas West Drive		Tiong Seng Contractors (Private) Limited		2016 - 2018
126	Jurong West Market & Hawker Centre @ Jurong West Street 61	National Environment Agency	LBD Engineering Pte Ltd	Bescon Consulting Engineers Pte	2015 - 2017
127	CITY GATE @ Beach Road	Fragrance Group Limited	Woh Hup (Private) Limited	William Ng Consultants Pte Ltd	2016 - 2019
128	LUXUS HILL – Phase 16	Bukit Sembawang Estates Ltd	Seah Construction Pte Ltd	Squire Mech Pte Ltd	2016 - 2018
129	TE15 – Great World MRT Station	Land Transport Authority	Tiong Seng Contractors (Private) Limited	Aecom Singapore Pte Ltd	2014 - 2020
130	Hawker Center @ Pasir Ris central	National Environment Agency	LBD Engineering Pte Ltd	CPG Consultants Pte Ltd	2015 - 2016
131	JTC @ Buroh Lane (POULTRY PROCESSING HUB)	JTC Corporation	HPC Builders Pte Ltd	Surbana Jurong Consultants Pte Ltd	2016 - 2018
132	The Clan Hotel @ 12 / 13 Amoy Street	Far East Organization	Hexacon Construction Pte Ltd	United Projects Consultants Pte Ltd	2016 - 2020
133	New State Courts Complex @ 1 Havelock Square	Judiciary - State Courts	Samsung C&T Corporation	CPG Consultants Pte Ltd	2016 - 2019
134	Changi Naval Base				2016 - 2017
135	Francois (Stena Marine) @ 30 Pandan Road				2016 - 2017



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136	T202 – Woodlands North Station	Land Transport Authority	Penta-Ocean Construction Company Limited		2014 - 2019
137	Outram Community Hospital	Ministry of Health	Penta-Ocean Construction Company Limited	Surbana Jurong Consultants Pte Ltd	2016 - 2019
138	Hougang Community Club	People's Association	Union Contractors (S) Pte Ltd	HY M&E Consultancy Services Pte Ltd	2016 - 2018
139	EVONIK ME6 PROJECT @ 101 Banyang Avenue	Evonik Methionine SEA Pte Ltd	JDC Corporation	Kurihara Kogyo Co. Ltd	2016 - 2018
140	WATERHUB @ 80/82 Toh Guan Road East	Public Utilities Board (PUB)	Wee Hur Construction Pte Ltd	Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd	2017 - 2018
141	DJITSUN MALL @ Bedok North street 1	Overseas Movie (Pte) Ltd	Chong Tong Construction Pte Ltd	Icon Engineers LLP	2017 - 2018
142	Taman Jurong nursing home @ Yuan Ching Road	Ministry of Health	Chiu Teng Construction	CPG Consultants Pte Ltd	2017 - 2018
143	Funan Digital Mall	CapitaMall Trust Management Ltd	Woh Hup (Private) Limited	Alpha Consulting Engineers Pte Ltd	2017 - 2020
144	Warehouse @ 90 Second Lokyang Road	COSMOSTEEL HOLDINGS LIMITED			2017 - 2019
145	New National Cancer Centre Singapore	Ministry of Health	Shimizu Corporation	Aecom Singapore Pte Ltd	2017 - 2022
146	SCDF HQ @ 91 Ubi Ave 4	Ministry of Home Affairs	ADES Engineering Pte Ltd		2017
147	Factory @ 41 Benoi Road	Makino Asia Pte Ltd	Erecon Construction Co Pte Ltd	Leong CW & Associates	2016 - 2017
148	Warehouse @ Tampines Industrial Drive - Plot 2	Hock Lian Seng Infrastructure (Pte) Ltd	Hock Lian Seng Infrastructure (Pte) Ltd	PDC Consulting Engineers	2017 - 2019
149	Stabling Yard at Gali Batu Depot (Contract 9061)	Land Transport Authority	Hock Lian Seng Infrastructure (Pte) Ltd		2015 - 2019
150	Kranji Secondary School @ Choa Chu Kang Street 51 - Upgrade	Ministry of Education	Chiu Teng Construction Co Pte Ltd	Meinhardt (Singapore) Pte Ltd	2017 -2019
151	T222 – Outram Park Station	Land Transport Authority	Daelim Industrial Co. Ltd		2014 - 2021



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152	Data Centre @ Sunview Drive	Mapletree Industrial Trust Management Ltd	Shimizu Corporation		2017 - 2018
153	Paya Lebar Quarter (Plot A)	Lend Lease Singapore Pte Ltd	Lend Lease Singapore Pte Ltd	Meinhardt (Singapore) Pte Ltd	2017 - 2020
154	Warehouse @ Tuas South Ave 14	Yang Kee Logistics Pte Ltd	HPC Builders Pte Ltd	Aurecon Singapore Pte Ltd	2017 - 2020
155	DODID Data Centre @ 71 Tagore Lan	Magnificent Seven Corporation Pte Ltd	Magnificent Seven Corporation Pte Ltd		2015 - 2017
156	Solaris @ Kallang 164 - 2 Blocks of 9-Storey Multiple-User General Industrial Factory Development @ 164 Kallang Way	Soilbuild Group Holdings Pte Ltd	Soilbuild Group Holdings Pte Ltd	Bescon Consulting Engineers Pte	2017 - 2019
157	Nexus International School - Aljunied Campus @ Aljunied Road	Nexus International School (Singapore)		Aecom Singapore Pte Ltd	2017 - 2019
158	FACTORY - 8 storey @ 39 Senoko Road	Kim Seng Heng Engineering Construction (Pte) Ltd	Kim Seng Heng Engineering Construction (Pte) Ltd	BTC Consultants	2017 - 2018
159	Nursing Home @ Compassvale Bow		Pal-Link Construction Pte Ltd		2017 - 2018
160	Warehouse - 6 Storey (Tuas South Link 1 - Plot 1)	Yang Kee Logistics Pte Ltd	HPC Builders Pte Ltd	Aurecon Singapore Pte Ltd	2017 - 2018
161	Singapore Chinese Girls' School - Upgrade - 4 levels INDOOR SPORTS HALL @ Dunearn Road	Ministry of Education	Kwan Yong Construction Pte Ltd	United Projects Consultants Pte Ltd	2018 - 2019
162	DATA CENTRE - 6 storey @ Sunview Drive	Mapletree Industrial Trust Management Ltd.	Shimizu Corporation	Wah Loon Engineering Pte Ltd	2017 - 2018
163	Centrium Square @ 320 Serangoon Road	Tong Eng Brothers Pte Ltd	Kimly Construction Private Limited	DP Engineers Pte Ltd	2017 - 2020
164	Runway - Singapore Changi Airport (Package 2) @ Changi East	Changi Airport Group (Singapore) Pte Ltd	Hock Lian Seng Infrastructure (Pte) Ltd		2016 - 2020
165	ARTRA @ Alexandra View	Tang Group of Companies	Tiong Seng Contractors (Private) Limited	J Roger Preston (S) Pte Ltd	2017 - 2019



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166	Kallang Fire Station - Home Team Joint Facility	Ministry of Home Affairs	Sanchoon Builders Pte Ltd	CPG Consultants Pte Ltd	2017 - 2018
167	Bird Park @ Mandai Road	Temasek Holdings (Private) Limited	Obayashi Corporation (aka Obayashi Singapore Private Limited)		2017 - 2020
168	Office - Upgrade (Former Db2land Building) @ 139 Cecil Street	Ececil Pte Ltd	Lim Wen Heng Construction Pte Ltd	Elead Associates Pte. Ltd	2017 - 2018
169	Workshops Warehouse - 10 Buildings - New - 2 Storey (New Shipyard (Phase 3a)) @ Tuas South Boulevard	Sembcorp Marine Ltd	HPC Builders Pte Ltd	Surbana Jurong Consultants Pte Ltd	2018
170	Masjid Angullia @ 265 Serangoon Road	Masjid Angullia	Hong Shin Builders Pte Ltd	Conteem Engineers Pte Ltd	2018 - 2020
171	Replacement of Water Pipes to 42 Blocks 442 to 465 Choa Chu Kang Avenue 4, Blocks 469 to 474 Choa Chu Kang Avenue 3 & Block 483,484,484A-D,485,485A-D & 486 Choa Chu Kang Avenue 5	Chua Chu Kang Town Council	Deluge Fire Protection (S.E.A) Pte Ltd		2018
172	Hampton Court @Draycott Park	Celestial Fortune Pte Ltd	Unison Construction Pte Ltd	Squire Mech Pte Ltd	2017 - 2019
173	ANG MO KIO NURSING HOME @ Ang Mo Kio Avenue 3 / Ang Mo Kio Street 23	Ministry of Health	Vigcon Construction Pte Ltd (aka VC Hue Pte Ltd)	Meinhardt (Singapore) Pte Ltd	2018 - 2020
174	Google Data Centre @ Lok Yang Way	Google Asia Pacific Pte Ltd	Sato Kogyo (S) Pte Ltd		2018 - 2020
175	Whistler Grand @ West Coast Vale	City Developments Limited	Woh Hup (Private) Limited	United Projects Consultants Pte Ltd	2019 - 2021



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176	Clementi Neighbourhood 4 Contract 12 @ Clementi Avenue 1 / Clementi Avenue 2 / Commonwealth Avenue West	Housing and Development Board	Welltech Construction Pte Ltd		2017 - 2021
177	Bedok Green Secondary School Red Swastika School @ 360 Bedok North Avenue 3 / 350 Bedok North Avenue 3	Ministry of Education	Kwan Yong Construction Pte Ltd	WSP Consultancy Pte Ltd (formerly Parsons Brinckerhoff Pte Ltd)	2018 - 2019
178	Food Factory @ 218 Pandan Loop	X Properties Inc Pte Ltd		PDC Consulting Engineers	2018 - 2019
179	7 storey @ Tuas Bay Close	Soilbuild Group Holdings Ltd & SB (Northview) Investment Pte Ltd (A subsidiary of Soilbuild Group Holdings Ltd)	SoilBuild (Pte.) Ltd	Tritont Consulting Llp	2018 - 2020
180	8 storey (SIXTEEN 35 RESIDENCES) @ 16 Lorong 35 Geylang	Oxley Holding Limited	CKR Contract Services Pte Ltd	Elead Associates Pte. Ltd	2018 - 2020
181	Bukit Batok Neighbourhood 4 Contracts 18 - 21 @ Bukit Batok	Housing and Development Board	Qingjian International (South Pacific) Group Development Co. Pte. Ltd	Surbana Jurong Consultants Pte Ltd	2016 - 2020
182	Bukit Panjang Neighbourhood 6 Contrat 13&14 I Senja Valley @ Senja Road	Housing and Development Board	Sim Lian Construction Co Pte Ltd	United Projects Consultants Pte Ltd	2017 - 2021
183	Dawson Contract 4 @ Margaret Drive	Housing and Development Board	Master Contract Services Pte Ltd	Surbana Jurong Consultants Pte Ltd	2015 - 2020
184	Former Harrep Kitchen	Nanshan Group Singapore Co. Pte. Ltd		Rankine and Hill (S) Pte Ltd - Mechanical and Electrical Department	2017 - 2019



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185	Tampines Neighbourhood 8 Contract 32A & Contract 32B Tampines Greenbloom & Tampines Greenflora @ Tampines Street 85 / Tampines Street 86 / Tampines Avenue 8	Housing and Development Board	Sim Lian Construction Co Pte Ltd	United Projects Consultants Pte Ltd	2017 - 2020
186	Hougang Rivercourt Neighbourhood Centre Hougang Neighbourhood 3 Contract 13	Housing and Development Board	CKR Contract Services Pte Ltd	United Projects Consultants Pte Ltd	2016 - 2020
187	Cleantech Two : Extension	JTC Corporation	BHCC Construction Pte Ltd	Aecom Singapore Pte Ltd	2019 - 2022
188	Kallang Polyclinic @ Balestier / Serangoon Road	Ministry of Health - Headquarter	Tiong Seng Contractors (Private) Limited (aka Tiong Seng Holdings Limited)	WSP Consultancy Pte Ltd (formerly Parsons Brinckerhoff Pte Ltd)	2018 - 2020
189	Timmac @ Kranji Loop	JTC Corporation	SH Design & Build Pte Ltd	Mott MacDonald Singapore Pte Ltd	2018 - 2020
190	North London Collegiate School @1148 Depot Road	NLCS Depot Road Pte Ltd	HPC Builders Pte Ltd		2018 - 2020
191	NTUC Fresh Food Distribution Centre @ Sunview Road	NTUC Fairprice Co-Operative Ltd	United Tec Construction Pte Ltd	Surbana Jurong Consultants Pte Ltd	2019 - 2021
192	Yusof Ishak Secondary School @ Punggol Central	Ministry of Education	Kwan Yong Construction Pte Ltd	Rankine and Hill (S) Pte Ltd - Mechanical and Electrical Department	2019 - 2020
193	Digital Loyang 2 (Sin12) - Digital Realty Trust @ Loyang Drive	Digital Singapore 2 Pte. Ltd.	Straits Construction Singapore Private Limited	Arup Singapore Pte Ltd	2019 - 2021
194	Thomson-East Coast Line Contract T313 Xilin Station	Land Transport Authority	Samsung C&T Corporation		2016 - 2024



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195	Sembawang Neighbourhood 1 Contract 6 & 12 Eastlink I @ Canberra Eastlink II @ Canberra	Housing and Development Board	Nanjing Dadi Construction (Group) Co Ltd Singapore Branch	Bescon Consulting Engineers Pte	2016 - 2019
196	SENGKANG NEIGHBOURHOOD 3 CONTRACT 28A & COMMON GREEN ANCHORVALE PLAINS	Housing and Development Board	LC&T Builder (1971) Pte. Ltd	United Projects Consultants Pte Ltd	2016 - 2020
197	Tampines Neighbourhood 6 Contrat 20 Tampines Greenfoliage @ Tampines North Drive 2	Housing and Development Board	Ho Lee Construction Pte Ltd	Rankine & Hill (S) Pte Ltd	2018 - 2021
198	The Woodleigh Residences @ 33 Bidadari Park Drive	Singapore Press Holdings & Kajima Overseas Asia Pte Ltd	Kajima Overseas Asia Pte Ltd	Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd	2018 - 2021
199	Treasure At Tampines	Sim Lian Group Limited	Sim Lian Construction Co Pte Ltd	Kunda Consulting Engineers	2019 - 2023

Thank you,
Yours faithfully

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1st February 2022

TO OUR VALUED CUSTOMERS & CONCERNED PARTY(IES)

Dear Sir/Mdm,

Alternative Supply & Delivery of "CC" brand D.I. Cement Lined Pipes & Fittings to BS EN545:2010 & BS EN598:2007+A1 for current & near future projects in Singapore.

Indeed, we are grateful for your many years of continued support and purchase of 'YL' brand D.I. Pipes & 'HAH' D.I. fittings for your many previous projects locally and oversea.

- 2) Following the COVID-19 pandemic and recent severe Supply Chain disruption in Singapore and worldwide when materials cost have significantly being affected. In order to remain relevant and for long term business sustainability, we have chosen to synergize our regular supply and delivery of D.I. Pipes & Fittings as titled. This will ensure that our products will remain competitive with minimum impact if any, for a constant supply and consistent progress to your projects while maintaining high products' quality and good services.
- 3) Moving forward, it is envisaged that both "CC" brand Ductile Iron Pipes & Fittings to BS EN545:2010 &/or BS EN598:2007+A1 will be the primary brand for our future supply for the Plumbing, Sanitary and Hydrant pipeline systems. Should there be any specific requirement for "YL" Ductile Iron pipe & "HAH" D.I. Pipe Fittings, it will be purely on an indent basis and MOQ may apply at time of order.
- 4) Enclosed are relevant Test Certificates & Project Reference of "CC" brand DICL Pipes and Fittings to the respective Standards for your kind attention and perusal.

We deeply apologize for any inconvenience caused and sincerely looking forward to your kind understanding and continue support.

Yours sincerely,

.....
Bran Ng

TEST CERTIFICATE

Certificate number: TC-J0063

Client: Chong Cheong Foundry Works Pte Ltd
6, Sixth Lok Yang Road
Singapore 628104

Product: Ductile Iron Gate Valve

Brand / Model: CC

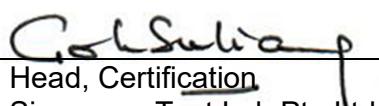
Detail: Nominal Diameter (mm) 80, 100, 150, 200, 250 and 300

Specification: BS 5163-1: 2004, BS EN 1092-2: 1997, BS EN 1074-1: 2000, BS EN 1074-2: 2000, SS 375: 2015, AS/NZS 4020: 2005, BS EN 545: 2010

Test Report: 2221572-OYC, 2020573-CPC, 7191101310-CHM14-06-EO

Summary

The product was found to comply with the test requirements of the above standard(s).


Head, Certification
Singapore Test Lab Pte Ltd

Date of Original Issue:

13 March 2019

Date of Last Revision:

6 April 2022

Date of Expiry:

31 March 2024

This Certificate is part of the listed full report(s) and should be read in conjunction with it. This Certificate remains the property of Singapore Test Lab Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the Terms and Conditions of Singapore Test Lab Pte Ltd.



Singapore Test Lab is an ISO / IEC 17065 Certification Body

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