

CERTIFICATE

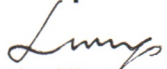
for Material Manufacturer

Manufacturer (name & address):	HEBEI MINHAI PIPE FITTING CO., LTD. BIANWU INDUSTRY ZONE, YANSHAN COUNTY, HEBEI, P. R. CHINA (THE EAST OF NATIONAL ROAD 205)
Manufacturing plant (s):	HEBEI MINHAI PIPE FITTING CO.,LTD. BIANWU INDUSTRY ZONE, YANSHAN COUNTY, HEBEI, P. R. CHINA(THE EAST OF NATIONAL ROAD 205)
Requirements and Standard (s):	Directive 2014/68/EU, Annex I, Par 4.3 Pressure Equipment Directive (PED)
Certificate is valid for 3 years until:	12/12/2027
Inspection Report No:	CHTPI508R-241216
Range of materials:	Flanges and Pipe Fittings (Tee, Cross, Elbow, Reducer, Cap, Stub End) - Refer to <i>Annex I</i> for details

ERGOCERT HELLAS S.A. as a Third Party Certification Body, hereby certifies that the material manufacturer has established and applies a Quality Assurance System in accordance with the European Pressure Equipment Directive 2014/68/EU, Annex I, Paragraph 4.3, with regard to the materials as listed on the attached Annex I.

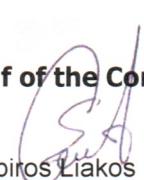
- This certificate may be quoted on the EN 10204 Type 3.1 certificate issued by the manufacturer to accompany the product listed on this certificate.
- The validity of the certificate is in conjunction with a valid manufacturer's certification in accordance with ISO 9001: 2015 related to production of materials for pressure equipment scope.
- This Certificate reflects findings during inspection in time and place only for the product and configuration described hereby.

Inspector


Lu Ningyuan



On behalf of the Company


Spiros Liakos

CERTIFICATE

for Material Manufacturer

ANNEX I

TABLE OF MATERIALS

Product	Flanges		
Standards	EN 1092-1, BS 4504, BS 10, ASME B16.5, ASME B16.47, ASME B16.48, MSS SP-44, DIN 86044, AWWA C207, HG/T 20592~20635, SH/T 3406, GB/T 9124, GBT 9115, GB/T 13402		
Material	Material Grade	Material Standard	Flanges Dimension
	A105, A105N	ASTM A105	DN15(1/2") ~ DN3600(144")
	F304, F304L, F304H, F316, F316L, F316H, F316N, F321, F321H, F347, F347H, F310, F310H, F317, F317L, F44, F904L, F51, F53, F60, F22, F11, F5, F9	ASTM A182	DN15(1/2") ~ DN3600(144")
	Gr.1	ASTM A181	DN15(1/2") ~ DN3600(144")
	LF1, LF2, LF3, LF4, LF5, LF6	ASTM A350	DN15(1/2") ~ DN3600(144")
	F42, F46, F48, F50, F51, F52, F53, F56, F60, F65, F70	ASTM A694	DN15(1/2") ~ DN3600(144")
	ST37.2	DIN 17100	DN15(1/2") ~ DN3600(144")
	C22.8	DIN 17243	DN15(1/2") ~ DN3600(144")
	P245GH, P250GH, P280GH, 16Mo3, 14CrMo4-5	EN 10222-2	DN15(1/2") ~ DN3600(144")
	X6CrNiTi18-10, X5CrNiMo17-12-2	EN 10222-5	DN15(1/2") ~ DN3600(144")
	L7C, L1, B8, B8LN	ASTM A320	DN15(1/2") ~ DN3600(144")
	Gr.1, Gr.2, Gr.3, Gr.4	ASTM A266	DN15(1/2") ~ DN3600(144")
	Q245R, Q345R, 12Cr1MoVR, 12Cr2Mo1R15CrMoR, 14Cr1MoR, Q370R	GB 713	DN10 ~ DN2000
	Q235A, Q235B, 20	GB/T 700 GB/T 711	DN10 ~ DN2000
	16MnDR, 09MnNiDR	GB/T 3531	DN10 ~ DN2000
	06Cr19Ni10, 022Cr19Ni10, 06Cr18Ni11Ti, 06Cr17Ni12Mo2, 022Cr17Ni12Mo2, 06Cr18Ni11Nb	GB/T 4237	DN10 ~ DN2000
	20, 16Mn, 15CrMo, 12Cr1MoV, 12Cr2Mo1, 20MnMo, 12Cr5Mo, 10Cr9Mo1VNbN	NB/T 47008	DN10 ~ DN1000
	16MnD, 20MnMoD, 09MnNiD, 08MnNiCrMoVD	NB/T 47009	
	06Cr19Ni10/S30408, 022Cr19Ni10/S30403, 06Cr17Ni12Mo2/S31608, 022Cr17Ni12Mo2/S31603, 06Cr18Ni11Ti/S32168, 07Cr18Ni11Nb/S34779	NB/T 47010	

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Product	Pipe Fittings (Tee, Cross, Elbow, Reducer, Cap, Stub End)		
Standards	ASTM A234, ASTM A350, ASTM A335, EN 10253-2, ASTM A420, ASTM A860, ASTM A403, ASME B16.9, ASME B16.11, MSS SP-97, GB/T 12459, GB/T 13401, SH/T 3408, SH/T 3410, DL/T 695, GB/T 14383, GB/T 35072		
Material	Material Grade	Material Standard	Fitting Dimension
	WPB, WPC, WP91, WP11 CL1, WP22 CL1	ASTM A234	DN15(1/2") ~ DN3600(144")
	LF2	ASTM A350	DN15(1/2") ~ DN3600(144")
	P5, P9, P12, P91	ASTM A335	DN15(1/2") ~ DN3600(144")
	P235GH, P265GH, P235TR2, P265TR2, P355N, P355NH, L290NB, L360NB	EN 10253-2	DN15(1/2") ~ DN3600(144")
	X2CrNi18-9, X5CrNi18-10, X2CrNiMo17-12-2, X5CrNiMo17-12-2	EN 10253-3 EN 10253-4	DN15(1/2") ~ DN3600(144")
	WPL3, WPL6	ASTM A420	DN15(1/2") ~ DN3600(144")
	WPHY 42, WPHY 46, WPHY 52, WPHY 60, WPHY 65, WPHY 70	ASTM A860	DN15(1/2") ~ DN3600(144")
	304, 304L, 304H, 316, 316L, 316H, 316N, 321, 321H, 347, 347H, 310S, 310H, 317, 317L	ASTM A403	DN15(1/2") ~ DN3600(144")
	CF370, CF415, CF415K, CF485, CF485K, AF11, AF11G, AF12, AF12G, AF14, AF22, AF22G, AF5, AF5G, AF9, AF9G, AF91, LF415K2, LF485K2, LF450K3, SF304, SF304L, SF316, SF316L, SF321, SF2225, SF2205, SF2507	GB/T 13401	DN15(1/2") ~ DN1500(60")
	20, 16Mn, 15CrMo, 12Cr1MoV, 12Cr2Mo1, 20MnMo, 12Cr5Mo, 10Cr9Mo1VNbN	NB/T 47008	DN6 ~ DN100
	16MnD, 20MnMoD, 09MnNiD, 08MnNiCrMoVD	NB/T 47009	DN6 ~ DN100
	06Cr19Ni10/S30408, 022Cr19Ni10/S30403, 06Cr17Ni12Mo2/S31608, 022Cr17Ni12Mo2/S31603, 06Cr18Ni11Ti/S32168, 07Cr18Ni11Nb/S34779	NB/T 47010	DN6 ~ DN100

(end)

INSPECTION REPORT



ERGOCERT HELLAS S.A.
AUDITS-INSPECTIONS-CERTIFICATIONS

Report No: CHTPI508R-241216

Date of issue: 16/12/2024

Client / Holder	:	HEBEI MINHAI PIPE FITTING CO., LTD. BIANWU INDUSTRY ZONE, YANSHAN COUNTY, HEBEI, P.R. CHINA (THE EAST OF NATIONAL ROAD 205)			
Inspection type	:	Initial audit of certification of PED 2014/68/EU, Annex I, Par 4.3 certificate for Material Manufacturer			
Place of inspection	:	Yanshan, China			
Project	:	Flanges and Pipe Fittings (Tee, Cross, Elbow, Reducer, Cap, Stub End)			
Scope of inspection	:	Product	Material Grade	Material Standard	Dimension
		Flanges	A105,A105N	ASTM A105	DN15(1/2") - DN3600(144")
			F304, F304L, F304H, F316, F316L, F316H, F316N, F321, F321H, F347, F347H, F310, F310H, F317, F317L, F44, F904L, F51, F53, F60, F22, F11, F5, F9	ASTM A182	DN15(1/2") - DN3600(144")
			Gr.1	ASTM A181	DN15(1/2") - DN3600(144")
			LF1, LF2, LF3, LF4, LF5, LF6	ASTM A350	DN15(1/2") - DN3600(144")
			F42, F46, F48, F50, F51, F52, F53, F56, F60, F65, F70	ASTM A694	DN15(1/2") - DN3600(144")
			ST37.2	DIN 17100	DN15(1/2") - DN3600(144")
			C22.8	DIN 17243	DN15(1/2") - DN3600(144")
			P245GH, P250GH, P280GH, 16Mo3, 14CrMo4-5	EN 10222-2	DN15(1/2") - DN3600(144")
			X6CrNiTi18-10, X5CrNiMo17-12- 2	EN10222-5	DN15(1/2") - DN3600(144")
			L7C, L1, B8, B8LN	ASTMA320	DN15(1/2") - DN3600(144")
			Gr.1, Gr.2, Gr.3, Gr.4	ASTM A266	DN15(1/2") - DN3600(144")
			Q245R, Q345R, 12Cr1MoVR, 12Cr2Mo1R15CrMoR, 14Cr1MoR, Q370R	GB 713	DN10 - DN2000
			Q235A, Q235B, 20	GB/T 700 GB/T 711	DN10 - DN2000
			16MnDR, 09MnNiDR	GB/T 3531	DN10 - DN2000
			06Cr19Ni10, 022Cr19Ni10, 06Cr18Ni11Ti, 06Cr17Ni12Mo2,022Cr17Ni12Mo 2, 06Cr18Ni11Nb	GB/T 4237	DN10 - DN2000



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			20,16Mn, 15CrMo, 12Cr1MoV, 12Cr2Mo1, 20MnMo, 12Cr5Mo, 10Cr9Mo1VNbN	NB/T47008	DN10 - DN1000
			16MnD, 20MnMoD, 09MnNiD, 08MnNiCrMoVD	NB/T47009	
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		Pipe Fittings (Tee, Cross, Elbow, Reducer, Cap, Stub End)	WPB, WPC, WP91, WP11 CL1, WP22 CL1	ASTM A234	DN15(1/2") ~ DN3600(144")
			LF2	ASTM A350	DN15(1/2") ~ DN3600(144")
			P5, P9, P12, P91	ASTM A335	DN15(1/2") ~ DN3600(144")
			P235GH, P265GH, P235TR2, P265TR2, P355N, P355NH, L290NB, L360NB	EN 10253-2	DN15(1/2") ~ DN3600(144")
			X2CrNi18-9, X5CrNi18-10, X2CrNiMo17-12-2, X5CrNiMo17-12-2	EN 10253-3 EN 10253-4	DN15(1/2") ~ DN3600(144")
			WPL3, WPL6	ASTMA420	DN15(1/2") ~ DN3600(144")
			WPHY 42, WPHY 46, WPHY 52, WPHY 60, WPHY 65, WPHY 70	ASTMA860	DN15(1/2") ~ DN3600(144")
			304, 304L, 304H, 316, 316L, 316H, 316N, 321, 321H, 347, 347H, 310S, 310H, 317, 317L	ASTMA403	DN15(1/2") ~ DN3600(144")
			CF370, CF415, CF415K, CF485, CF485K, AF11, AF11G, AF12, AF12G, AF14, AF22, AF22G, AF5, AF5G, AF9, AF9G, AF91, LF415K2, LF485K2, LF450K3, SF304, SF304L, SF316, SF316L, SF321, SF2225, SF2205, SF2507	GB/T13401	DN15(1/2") ~ DN1500(60")
			20,16Mn, 15CrMo, 12Cr1MoV, 12Cr2Mo1, 20MnMo, 12Cr5Mo, 10Cr9Mo1VNbN	NB/T47008	DN6 ~ DN100
			16MnD, 20MnMoD, 09MnNiD, 08MnNiCrMoVD	NB/T47009	DN6 ~ DN100
			06Cr19Ni10/S30408, 022Cr19Ni10/S30403, 06Cr17Ni12Mo2/S31608, 022Cr17Ni12Mo2/S31603, 06Cr18Ni11Ti/S32168, 07Cr18Ni11Nb/S34779	NB/T47010	DN6 ~ DN100
Requirements Standards		/ :	EN 10204: 2004 Flanges: EN 1092-1, BS 4504, BS 10, ASME B16.5, ASME B16.47, ASME B16.48, MSS SP-44, DIN 86044, AWWA C207, HG/T 20592~20635, SH/T 3406, GB/T 9124, GBT 9115, GB/T 13402.		



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	:	Pipe Fittings (Tee, Cross, Elbow, Reducer, Cap, Stub End): ASTM A234, ASTM A350, ASTM A335, EN 10253-2, ASTM A420, ASTM A860, ASTM A403, ASME B16.9, ASME B16.11, MSS SP-97, GB/T 12459, GB/T 13401, SH/T 3408, SH/T 3410, DL/T 695, GB/T 14383, GB/T 35072.
Date of inspection	:	13/12/2024
Inspection summary	:	Review: • quality manual and procedure documents • ISO 9001 certificate and audit report • work instruction Check: • internal audit report • management review report • technical drawings • product standards • manufacture records • inspection records • EN 10204 Type 3.1 material certificates • calibration certificates. HEBEI MINHAI PIPE FITTINGS CO., LTD. appointed ERGOCERT HELLAS S.A. for the material certification of the Raw material manufacturer. All the inspection works are based on the Annex I paragraph 4.3 of Pressure Equipment Directive 2014/68/EU & the products standards provided by the manufacturer. The overall audit target (as specified in the plan) was achieved. The documented system management conformity was measured through highly qualified process. Further, client's activity was compared with standard requirements. It was confirmed that the organization's MS is capable to meet the applicable requirements of the relevant standard(s) and directive. The organization meets and appropriately implements the applicable MS requirements, and can ensure the continued provision of this service or products in conformity to customer requirements and relevant laws and regulations in order to increase customer satisfaction. It is recommended to issue the PED 2014/68/EU, Annex I, Par 4.3 certificate for Material Manufacturer.
Inspection result	:	☒ satisfactory ☐ partial non-conforming ☐ rejected
Photos	:	☐ no photos ☒ attached (as below)



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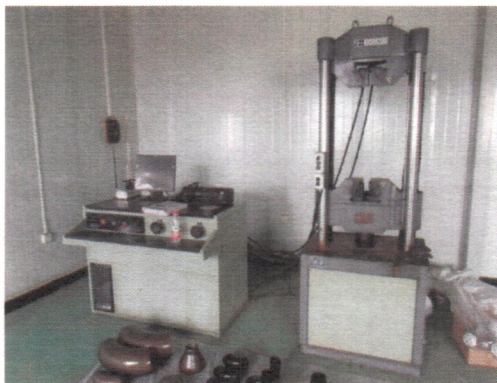
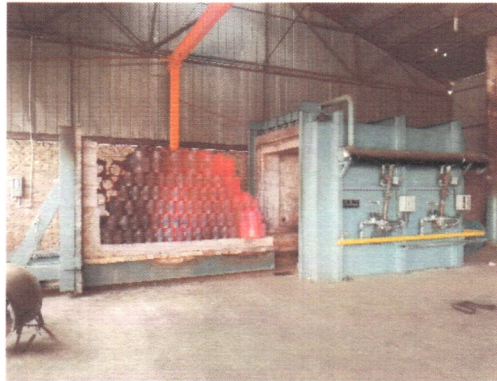
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Report No: CHTPI508R-241216

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Inspector's name &
signature

:

Lu Ningyuan

