

PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU QUALITY ASSURANCE CERTIFICATE

Module: MM

The company

T K Corporation

Head Office & 1st Factory

117-12, Noksansaneop-Daero
Gangseo-Gu
Busan
Korea

2nd Factory

51, Hwajeonsandan 5-Ro
Gangseo-Gu
Busan
Korea

3rd Factory

37, Hwajeonsandan 2-Ro
Gangseo-Gu
Busan
Korea

*Successfully Implemented a Quality Assurance System
to meet the requirements of Section 4.3 of Annex I of the
Pressure Equipment Directive 2014/68/EU*

*This certificate applies to Manufacture of Carbon Steel, Alloy Steel, Stainless Steel and Nonferrous Steel
according to the Scope listed on page 2 and 3 of this certificate*

The Notified Body:
Hartford Steam Boiler Ireland Limited
28 Windsor Place
Lower Pembroke Street
Dublin 2, Ireland

Notified Body: 2833

CERTIFICATION

Certification Number	HSB IE-23-07-050
HSB IE Reg.-No.	KR.TKC.193.00-MM
First Certification (HSB)	30. Jul 2002
Certification Date	24. Jul 2023
Expiration Date	29. Jul 2026

Pedro Veiga
NAME

24-July-2023
DATE

Hartford
Steam
Boiler
Ireland Ltd.
SIGNATURE 2833

Certificate No.: HSB IE-23-07-050
 HSB-Registration No.: KR.TKC.193.00-MM

Material	Material Standard	Type of Product	Out of Diameter (mm)	Thickness (mm)
Carbon Steel	SA/A105, SA/A234, SA/A420, SA/A350 SA/A694, SA/A860 SA/A106, SA/A671, SA/A333 MSS SP-75, API-5L	Seamless, Welded, Forged Fittings	10.3mm~4248.2mm (1/8" ~ 158")	1.24 mm ~ 200 mm
Alloy Steel	SA/A234, SA/A182, SA/A420, SA/A350 SA/A333, SA/A335			
Stainless Steel	SA/A182, SA/A403, SA/A815 SA/A312, SA/A268, SA/A358, SA/A790			
Nonferrous Steel	SB/B366, SB/B472, SB/B564, SB/B649 SB/B165, SB/B407, SB/B423, SB/B444 SB/B464, SB/B619, SB/B673, SB/B674 SB/B704			
Carbon Steel	SA/A105, SA/A350 SA/A694	Forged Flanges		
Alloy Steel	SA/A182, SA/A350			
Stainless Steel	SA/A182			
Nonferrous Steel	SB/B472, SB/B564, SB/B574, SB/B649			

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Buttwelding Fittings		
Material number	EN	ASTM
Non-alloy		
1.0254 St 37.0	S235	-
-	-	-
1.0305 St 35.8/I	P235GH (1.0345)	A 234 Grade WPA
1.0305 St 35.8/III	P235GH (1.0345)	-
1.0405 St 45.8/I	P265GH (1.0425)	A 234 Grade WPB
1.0405 St 45.8/III	P265GH (1.0425)	-
Alloyed heat-resistant		
1.5415 15 Mo 3	16Mo3	A 234 Grade WP1
1.7335 13 CrMo 4	4 13CrMo4-5	A 234 Grade WP12
-	-	A 234 Grade WP11
1.738 10 CrMo 9 10	10CrMo9-10	A 234 Grade WP22
1.7362 12 CrMo 19 5	X11CrMo5	A 234 Grade WP5
-	-	A 234 Grade WP9
1.4903 -	X10CrMoVNb9-1	A 234 Grade WP91
Low temperature		
1.5637 10 Ni 14	12Ni14	A 420 Grade WPL3
1.0356 TTSt 35 N	P215NL (1.0451)	-
1.0356 TTSt 35 V	-	-
-	P265NL (1.0453)	A 420 Grade WPL6
Fine-grain steels		
1.0486 StE 285	-	A 860 Grade WPHY42
1.0562 StE 355	P355N	A 860 Grade WPHY52
1.0565 -	P355NH	-
1.0566 -	P355NL1	-
1.8902 StE 420	-	A 860 Grade WPHY60
1.8905 StE 460	-	A 860 Grade WPHY70
High yield steels		
1.0457 StE 240.7	-	-
1.0484 StE 290.7	L290NB / L290NE	A 860 Grade WPHY42
1.0582 StE 360.7	L360NB / L360NE	A 860 Grade WPHY52
1.8972 StE 415.7	L415NB / L415NE	A 860 Grade WPHY60
Stainless steel		
1.4307 -	X2CrNi18-9	A 403 Grade WP304L
1.4306 X 2 CrNi 19 11	X2CrNi19-11	A 403 Grade WP304L
1.4301 X 5 CrNi 18 10	X5CrNi18-10	A 403 Grade WP304
1.4541 X 6 CrNiTi 18 10	X6CrNiTi18-10	A 403 Grade WP321
1.455 X 6 CrNiNb 18 10	X6CrNiNb18-10	A 403 Grade WP347
1.4404 X 2 CrNiMo 17 13 2	X2CrNiMo17-12-2	A 403 Grade WP316L
1.4401 X 5 CrNiMo 17 12 2	X5CrNiMo17-12-2	A 403 Grade WP316
1.4571 X 6 CrNiMoTi 17 12 2	X6CrNiTi18-10	-
1.4429 X 2 CrNiMoN 17 13 3	X2CrNiMoN17-13-3	A 403 Grade WP316LN
1.4436 X 5 CrNiMo 17 13 3	X3CrNiMo17-13-3	A 403 Grade WP316
1.4435 X 2 CrNiMo 18 14 3	X2CrNiMo18-14-3	A 403 Grade WP316LN
1.4439 X 2 CrNiMoN 17 13 5	X2CrNiMoN17-13-5	UNS S 31726
1.4539 X 1 NiCrMoCuN 25 20 5	X1NiCrMoCu25-20-5	UNS N 08904 (904L)
1.4547 -	X1CrNiMoCuN20-18-7	UNS S 31254
1.4529 X 1 NiCrMoCuN 25 20 6	X1NiCrMoCuN25-20-7	UNS N 08926
1.4462 X 2 CrNiMoN 22 5 3	X2CrNiMoN22-5-3	UNS S 31803 (Duplex)
1.441 -	X2CrNiMoN25-7-4	UNS S 32750(Superduplex)