

TYPE EXAMINATION CERTIFICATE – PRODUCTION TYPE

Certificate No.:
C711998

Initial date:
22 April, 2025

Validity:
22 April, 2025 – 21 April, 2035

This certificate consists of 7 pages

This is to certify that representative examples of products manufactured by:

F.C. Kingston Company Division of Storm Manufacturing Group

23201 Normandie Avenue, Torrance, CA 90501 USA

have been assessed with respect to the conformity assessment procedure described in:

ANNEX III MODULE B – PRODUCTION TYPE OF DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT

and found to comply with the requirements in Annex I – Essential Safety Requirements of the Directive.

This certificate is valid for the following scope:

Type of Pressure Equipment

Safety Valves

Product Name

Pressure Relief Valves

Product Version

**110C, 112C, 114, 115, 118C, 119, KSV10H,
KSV25, KSV30, KSV35, KSV40**

Place and date:
Vimercate, 22 April, 2025

Check Validity



N° 0003 PRD

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

For the issuing office:
Notified Body 0496, Italy
DNV Business Assurance Italy S.r.l.



Maurizio Bellina
Management Representative

Jurisdiction

Application of Directive 2014/68/EU and Decreto Legislativo n. 26 of 15 February 2016.

Certificate history:

Revision	Description	Issue Date
00	Original Certificate	22 April, 2025

Products covered by this Certificate:

Product Name	Product Description	Product version	PED category	Product standard
110C	Pressure Relief Valves	110C200 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
112C (.250" Orif.)	Pressure Relief Valves	112CSS200, 112CSS300, 112CR200, 112CR300 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
112C (.250" Orif.)	Pressure Relief Valves	112CSS200, 112CSS300, 112CR200, 112CR300 Steam	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
112C (.375" Orif.)	Pressure Relief Valves	112CSS400, 112CR400 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 114 & 115 (.219" Orif.)	Pressure Relief Valves	114200, 115200, 115CR200 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 114 & 115 (.219" Orif.) Valves	Pressure Relief Valves	114200, 115200, 115CR200 Steam	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 114 & 115 (.265 Orif.)	Pressure Relief Valves	114300, 115300 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 114 & 115 (.312" Orif.)	Pressure Relief Valves	114400, 115400 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013

Fig. 114 (.437" Orif.)	Pressure Relief Valves	114500 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 114 (.625" Orif.)	Pressure Relief Valves	114600 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 118C & 119 (.302" Orif.)	Pressure Relief Valves	118CSS200, 119200 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 118C & 119 (.359" Orif.)	Pressure Relief Valves	118CSS300, 118CSS400, 119400 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
Fig. 118C & 119 (.578" Orif.)	Pressure Relief Valves	118CSS500, 118CSS600, 119CSS500 Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
KSV10H	Pressure Relief Valves	KSV10H() Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
KSV25 (0.25 Orif.)	Pressure Relief Valves	KSV25() Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
KSV25 (0.25 Orif.)	Pressure Relief Valves	KSV25() Steam	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
KSV30	Pressure Relief Valves	KSV30() Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
KSV35	Pressure Relief Valves	KSV35() Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013
KSV40	Pressure Relief Valves	KSV40() Air / Gas	IV	ASME Sect. VIII Div. 1 and Div. XIII Ed. 2023 EN ISO 4126-1 2013

Design data:

Product Name	Maximum allowable pressure (PS)	Minimum allowable temperature (TS)	Maximum allowable temperature (TS)	Test pressure (PT)
110C	41.4 barg	-29 °C	+204 °C	62.05 barg
112C (.250" Orif.)	20.7 barg	-29 °C	+204 °C	31.03 barg
112C (.250" Orif.)	3.86 barg	-29 °C	+204 °C	5.79 barg
112C (.375" Orif.)	20.7 barg	-29 °C	+204 °C	31.03 barg
Fig. 114 & 115 (.219" Orif.)	20.7 barg	-29 °C	+204 °C	31.03 barg
Fig. 114 & 115 (.219" Orif.)	3.45 barg	-29 °C	+204 °C	5.17 barg
Fig. 114 & 115 (.265 Orif.)	18.96 barg	-29 °C	+204 °C	28.44 barg
Fig. 114 & 115 (.312" Orif.)	18.96 barg	-29 °C	+204 °C	28.44 barg
Fig. 114 (.437" Orif.)	17.24 barg	-29 °C	+204 °C	25.86 barg
Fig. 114 (.625" Orif.)	17.24 barg	-29 °C	+204 °C	25.86 barg
Fig. 118C & 119 (.302" Orif.)	20.7 barg	-29 °C	+204 °C	31.03 barg
Fig. 118C & 119 (.359" Orif.)	20.7 barg	-29 °C	+204 °C	31.03 barg
Fig. 118C & 119 (.578" Orif.)	20.7 barg	-29 °C	+204 °C	31.03 barg
KSV10H	20.7 barg	-29 °C	+204 °C	31.03 barg
KSV25 (0.25 Orif.)	31.03 barg	-29 °C	+204 °C	46.54 barg
KSV25 (0.25 Orif.)	3.73 barg	-29 °C	+204 °C	5.58 barg
KSV30	20.7 barg	-29 °C	+204 °C	31.03 barg
KSV35	20.7 barg	-29 °C	+204 °C	31.03 barg
KSV40	20.7 barg	-29 °C	+204 °C	31.03 barg

Design data:

Product Name	Inlet Size	DN	Fluid	Fluid group
110C	0.25 - 0.375 NPS	8 - 10 DN	Air/Gas	2
112C (.250" Orif.)	0.25 - 0.375 NPS	8 - 10 DN	Air/Gas	2
112C (.250" Orif.)	0.25 - 0.375 NPS	8 - 10 DN	Steam	2
112C (.375" Orif.)	0.5 NPS	15 DN	Air/Gas	2
Fig. 114 & 115 (.219" Orif.)	0.25 NPS	8 DN	Air/Gas	2
Fig. 114 & 115 (.219" Orif.)	0.25 NPS	8 DN	Steam	2
Fig. 114 & 115 (.265 Orif.)	0.375 NPS	10 DN	Air/Gas	2
Fig. 114 & 115 (.312" Orif.)	0.5 NPS	15 DN	Air/Gas	2
Fig. 114 (.437" Orif.)	0.75 NPS	20 DN	Air/Gas	2
Fig. 114 (.625" Orif.)	1 NPS	25 DN	Air/Gas	2
Fig. 118C & 119 (.302" Orif.)	0.25 NPS	8 DN	Air/Gas	2
Fig. 118C & 119 (.359" Orif.)	0.375 - 0.5 NPS	10 - 15 DN	Air/Gas	2
Fig. 118C & 119 (.578" Orif.)	0.75 - 1 NPS	20 - 25 DN	Air/Gas	2
KSV10H	0.125 - 0.25 NPS	6 - 8 DN	Air/Gas	2
KSV25 (0.25 Orif.)	0.125 - 0.25 NPS	6 - 10 DN	Air/Gas	2
KSV25 (0.25 Orif.)	0.125 - 0.25 NPS	6 - 10 DN	Steam	2
KSV30	0.5 NPS	15 DN	Air/Gas	2
KSV35	0.5 - 0.75 NPS	15 - 20 DN	Air/Gas	2
KSV40	1 - 1.25 NPS	25 - 32 DN	Air/Gas	2

Sites covered by this certificate

Site Name	Site Address	Product description	Date
F.C Kingston Company Division of Storm Manufacturing Group	"23201 Normandie Ave. Torrance, CA 90501 USA"	Direct Acting Safety Valve	22 Mar 2025

Applications/limitations

- Air/Gas
- Steam
- Approved PMA materials: HOU-PMA-25-062 Rev. -

Documents reviewed:

Document No	Rev	Date	Title	Status *)
CE Valve Matrix	-	5/4/2023	CE Valve Matrix	A
Coef of Disch (Kd)	-	9/9/2024	Coefficient of Discharge (Kd)- for CE	FI
Coef of Disch (Test)	-	9/20/2024	Coefficient of Discharge for CE using Test Results	FI
Kd Calc Example	-	9/20/2024	Kd Calculation Example- Kd Calculation Example for Test #1 For 110C-2-025	FI
Safety Valve Installation	-	10/30/2012	Kingston Valves SAFETY VALVE INSTALLATION	FI
Spring Deflection	-	3/21/2024	Spring Deflection Calculation Measurement KHV25	FI
110C Spec. 2016	-	3/29/2016	110C Safety Valve Specification	FI
112CRSpec. 2016	-	3/29/2016	112CR Safety Valve Specification	FI
112CSS Spec 2016	-	3/29/2016	112CSS Safety Valve Specification	FI
112CSSEN Spec 2016	-	4/1/2020	112CSSEN Safety Valve Specification	FI
114 Specification 2016	-	7/28/2020	114 ASME Code Safety Valve with Soft Seat Specification	FI
115 Specification 2016	-	3/31/2016	115 Safety Valve Specification	FI
115P Spec. 2016	-	1/11/2022	115P Specification	FI
118CSS Spec 2016	-	7/13/2021	118CSS ASME Code High Flow Safety Relief Valve, Brass with Stainless Steel Ball Specification	FI
119CSS Spec 2016	-	9/15/2016	Kingston119css	FI
KSV-Spec-Sht-Rev	-	12/1/2023	Kingston-KSV-Specification-Sheet-1223	FI
115CR Spec12	-	12/16/2021	Model 115CR Specification 2021	FI
ESR_SMG	-	3/7/2025	ESR-CHECKLIST	FI
Hazard Analysis	-	3/25/2025	SMG Hazard Analysis	FI
CE Hydr test exempt calcs	-	10/1/2024	CE Hydrostatic testing exemption calculations	FI
Storm Mfg code 84	-	8/27/2021	CERTIFIED TEST REPORT	FI

			(Sample) C36000 ALLOY	
PED CTR	-	10/1/2024	Kingston PED Certified Test Report	FI
PED UV-1 COC (.xlsx form)	-	3/10/2025	PED UV-1 Certificate of Conformance for Pressure Relief Valve	FI
IOM	-	3/6/2025	Safety Valve Installation and Operating Instructions	FI
CE Valve Test	-	3/10/2025	CE Valve Test (Raw Data)	FI
Production Test Plan	-	3/10/2025	Production Test Plan for manufacture for type test specimens	FI
EU DoC	-	3/10/2025	EU Declaration (Sample) 115 Series. Serial # B0000001 – B0000005	FI
Kd Calcs	-	3/10/2025	Kd Calcs for CE and Raw Test Data (CE valves)	FI
Type Testing Data	-	3/10/2025	Type Testing Data (Raw Data, Kd Calc)	FI
Kingston Portfolio	-	9/22/2020	Kingston-Safety-Valve-Portfolio- Linecard-Web-Version	FI
Certificate No: 1103599	-	3/10/2025	Quality Management System Certificate (ISO 9001 2015)	FI
KC-DOC-004	C	3/27/2020	Ammonia Vapor Test for Cu Alloy	FI
KSV10H()-CE	B	3/25/2025	SAFETY VALVE, CE, FIG. KSV10H (Nameplate Example)	FI

*) A=Approved, FI=For information

Terms and conditions

This Certificate does not give the Manufacturer the right to CE mark and put on the market the product(s) listed on this Certificate. Only after the product(s) have been found to comply with the requirements in one of the following Conformity Assessment Modules C2, D, E or F, the Manufacturer may draw up an EU declaration of conformity and legally affix the CE mark followed by the identification number of the Notified Body involved in these modules.

Other valid terms and conditions are found in the DNV's PED Certification Requirements.

End of Certificate