



EU-TYPE EXAMINATION CERTIFICATE

According to
Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 for Pressure Equipment

CERTIFICATE NO.: **S-16-1008709-102, Rev. 10**
This Certificate consists of four (4) pages

THIS IS TO CERTIFY THAT THE EQUIPMENT

SAFETY ACCESSORY

WITH THE TYPE DESIGNATION/EQUIPMENT DESCRIPTION

Safety accessories of series CRV/CRB, CRV SS, VRV and VRVH.

MANUFACTURED BY

GENERANT COMPANY INC.

**1865 ROUTE 23 SOUTH, PO BOX 768, BUTLER, NJ 07405
UNITED STATES OF AMERICA**

is found to comply with the requirements in Annex I, Essential Safety Requirements and EN 13648-1, EN ISO 4126 (For full list refer to GENERANT CRV/CRVB, CRV SS and VRV/VRVH – type approval files)

The equipment has been examined with respect to the procedure of conformity assessment as described for Module B Production Type – Annex III, point 3.1

APPLICATIONS

Category:	IV	
Module:	B Production Type – Annex III, point 3.1	
	Room 1.	Room 2.
Allowable Pressure PS min/max:	See page 2 to 4	N.A.
Allowable Temperature TS min/max:	See page 2 to 4	N.A.
Volume/DN:	N.A.	N.A.
Fluid group:	01	N.A.
Fluid name:	See page 2 to 4	N.A.
Effect:	N.A.	kW

Further details of the product and conditions for the certification are given on next page.

This Certificate is valid until: **2036-04-22**

MÖLNDAL 2026-04-21
SIGNED FOR AND BEHALF OF

Kiwa Sweden AB

Notified Body No.: 0409



Jacob Persson



Notice: The certificate is subject to terms and conditions, if any, overleaf. Any significant changes in design or construction of the product, the quality system or amendments to the Directive 2014/68/EU or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with the Directive, as amended.



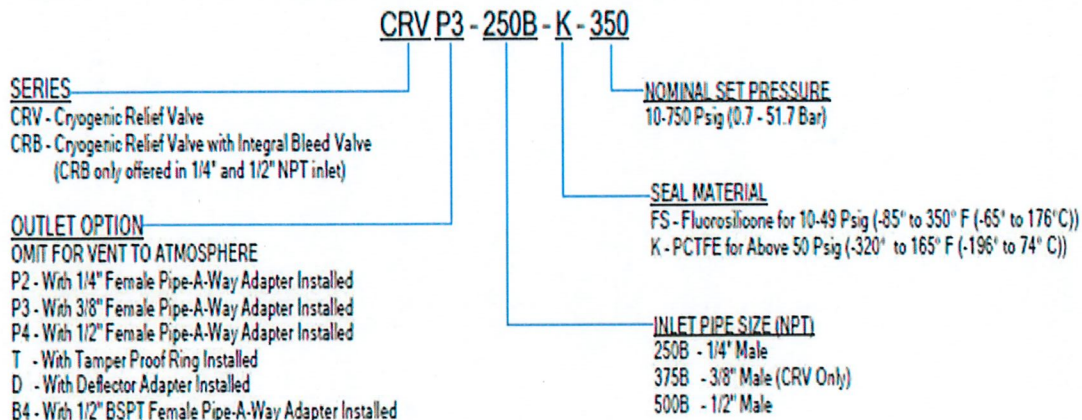
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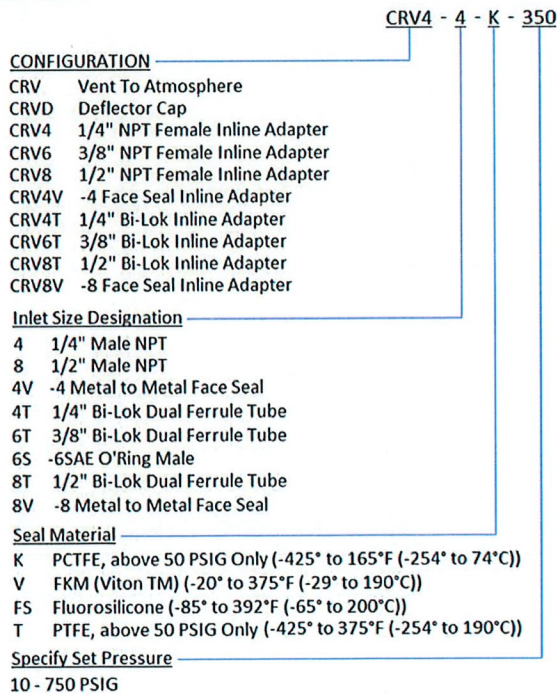
TYPE APPROVAL VALIDITY

- Cryogenic Relief Valves – Series CRV/CRB

Design pressure: 0.7 - 51.7 bar
 Design temperature: Seal material dependent (FS: -65°C to 176°C, K-PCTFE: -196°C to 74°C)



- Cryogenic Relief Valves – Series SS CRV





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- Vent Relief Valves – Series VRV/VRVH

Design pressure: 1.45 - 27.58 bar

Design temperature: Seal material dependent (B&N: -40°C to 121°C, EP: -54°C to 148°C, FS: -62°C to 176°C, S: -54°C to 205°C, T: -220°C to 205°C)

<u>Reference</u>	<u>Fluids</u>	<u>Max working pressure</u>	<u>Applicable standards</u>
VRV-47A-30	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRV 049-22	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	1.52 BAR +/- 5%	EN 13648-1 EN ISO 4126-1
VRV 049-30	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRV 085-22	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	1.52 BAR +/- 5%	EN 13648-1 EN ISO 4126-1
VRV 085-30	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRV-292-22	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	1.52 BAR +/- 5%	EN 13648-1 EN ISO 4126-1
VRV-292-30	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRV-427	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	1.45 BAR +/- 5%	EN 13648-1 EN ISO 4126-1
VRV-428	INERT GAS, O ₂ , GAS MIXTURE WITH OXIDIZING POTENTIAL HIGHER THAN 21%	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRV-429	INERT GASES, OXYGEN AND POTENTIAL OXIDIZER GASES GREATER THAN 21%	1.58 BAR +/- 5%	EN 13648-1 EN ISO 4126-1
VRV-1034	AIR, INERT GASES, AND LIQUIDS COMPATIBLE WITH MATERIALS OF CONSTRUCTION	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRV-1035	INERT GASES, OXYGEN AND POTENTIAL OXIDIZER GASES GREATER THAN 21%	3.79 BAR +/- 3%	EN 13648-1 EN ISO 4126-1
VRV-1036	INERT GASES, OXYGEN AND POTENTIAL OXIDIZER GASES GREATER THAN 21%	2.07 BAR +/- 0.1 BAR	EN 13648-1 EN ISO 4126-1
VRVD-1035	INERT GASES, OXYGEN AND POTENTIAL OXIDIZER GASSES GREATER THAN 21%	3.79 BAR +/- 3%	EN 13648-1 EN ISO 4126-1
VRVH-251B	INERT GASES, OXYGEN AND POTENTIAL OXIDIZER GASSES GREATER THAN 21%	27.58 BAR +/-3%	EN 13648-1 EN ISO 4126-1

PRODUCTION AND TESTING AREAS

GENERANT COMPANY INC. - 1865 ROUTE 23 SOUTH, PO BOX 768 - BUTLER, NJ 07405 - UNITED STATES OF AMERICA

GENERANT COMPANY INC. - 1 SOUTH CORPORATE DRIVE - RIVERDALE, NJ 07457 - UNITED STATES OF AMERICA

EUROPEAN REPRESENTATIVE

DRUKON GMBH, HAUPTSTRASSE 29, 02794 SPITZKUNNERSDORF, GERMANY

EXAMINED TECHNICAL DOCUMENTATION

- Series CRV/CRB Brass DG PED Technical Files,
- Series VRV/VRVH PED Technical Files,
- Series SS CRV PED Technical Files.



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SUPPORTING EVIDENCE

Technical Files containing:

- Type Approval Files (Series CRV/CRB, SS CRV and VRV/MRVH),
- Technical Drawings,
- Marking,
- Spring Design,
- Design Calculation/Testing,
- Test Reports,
- Materials,
- Installation/User Instructions.

LIMITATIONS

- The Manufacturer is allowed to affix the "CE" mark to the approved pressure equipment in the conditions described in the Pressure Equipment Directive, only if the requirements stated in the Module D are fully complied with.
- This certificate replaces the one issued in 2024-09-16 (Rev. 9).

SCOPE OF EXAMINATION

Technical design data and calculations	Yes	<input checked="" type="checkbox"/>	
Materials assessment	Yes	<input checked="" type="checkbox"/>	
Manufacturing drawings	Yes	<input checked="" type="checkbox"/>	
Welding – specifications WPS (procedures)	Yes	<input type="checkbox"/>	N.A.
Welding – personnel approval	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
NDT – personnel verification	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
NDT – scope, methods and procedures	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Operating instructions	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hazard or risk analysis	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
External loads	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Fatigue	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Creep design	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Other tests or procedures	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>

TESTS CARRIED OUT

Production Type - Prototype vessel representative of type approval examined refer to technical file (tests reports).

Current testing revalidated by KIWA laboratory according to EN 13648-1 and EN ISO 4126-1 harmonized standards. See technical files

MALMÖ, 2026-04-21

Kiwa Sweden AB

DESIGN EXAMINATION CARRIED OUT BY

Thierry Tielemans

Senior Design Review Engineer