

**Danfoss A/S**6430 Nordborg
Denmark
CVR nr.: 20 16 57 15Telephone: +45 7488 2222
Fax: +45 7449 0949**MANUFACTURER'S DECLARATION****Danfoss A/S****Danfoss Cooling Segment**

declares under our sole responsibility that the

Product category : Check Valve , differential pressure valve , Shut off valve , Sight glass

Type designation(s):



Check valves	Type NRV, NRV H, NRV10s H, CCV
Differential pressure valve	Type NRD
Sight glasses	Type SG, SGP, SGS
Shut-off valve	Type BM ,GBC, GBCH, CBV

Covered by this declaration is in conformity with the following directive(s), standard(s) or other normative document(s), provided that the product is used in accordance with our instructions.

Pressure Equipment Directive 2014/68/EU

EN ISO 21922:2021 "Refrigerating systems and heat pumps – Valves – Requirements, Testing and marking";

Types	Range	DN (mm)	PS (Bar)	Fluid Group	Ts (°C)	PED category
NRV/NRVH NRD	NRV 6~19	6-19	46	1, 2	-50 ~ 140	Article 4, Paragraph 3
	NRV/NRVH 6s~28s NRD 6s~12s	6-25	46	1, 2	-50 ~ 140	
	NRV/NRVH 28s ⁽¹⁾ ~35s	32	46	2	-50 ~ 140	
	NRV/NRVH 6s~19s NRD 6s~12s	6-19	49	1, 2	-50 ~ 155	
NRV/NRVH	22s E~28s E	22-25	49	1	-50 ~ 155	
	22s E~35s E	22-32	49	2	-50 ~ 155	
NRV10s H	10s	10	90	2	-50 ~ 140	
CCV	6s~28s	6-25	45	1, 2	-50 ~ 155	
	35s	32	45	2	-50 ~ 155	
	35s	32	35	2	-50 ~ 155	

Date: 2023.11.24 Place of issue: 301700 Tianjin China	Issued by  Signature: Name: Biao Chen Title: Design Engineer	Date: 2023.11.24 Place of issue: 301700 Tianjin China	Approved by  Signature: Name: Jing(Amy) Xiao Title: Director of RD&E , RAC-RPC
---	--	---	--

Danfoss only vouches for the correctness of the English version of this declaration. In the event of the declaration being translated into any other language, the translator concerned shall be liable for the correctness of the translation

Types	Range	DN (mm)	PS (Bar)	Fluid Group	Ts (°C)	PED category
BM	BMT 6, BML 6s~22s BML 6~18	6~22	28	1,2	-55 ~100	Article 4, Paragraph 3
SG	SG 6s~22s	6-25	35	1,2	-50 ~ 80	
	SGH 6s~22s	6-25	46	1,2	-50 ~ 80	
	SG 6~19	6-19	35	1,2	-50 ~ 80	
	SGR	6-25	35	1,2	-50 ~ 80	
	SGRH	6-25	46	1,2	-50 ~ 80	
SGP	SGP 6s~22s	6-25	52	1,2	-50 ~ 80	
	SGP 6~19	6-19	52	1,2	-50 ~ 80	
	SGPR	6-25	52	1,2	-50 ~ 80	
SGS	SGS	6-25	52	1, 2	-50 ~ 80	
GBC	6s~28s	6~25	45	1,2	-40 ~100	
	35s	32	45	2	-40 ~100	
	6s CO2~35s CO2	6~32	45	2	-40 ~100	
	6s E ~28s E	6~25	49	1	-40 ~150	
	6s E ~35s E	6~32	49	2	-40 ~150	
GBCH	6s~28s	6~28	90	2	-40 ~100	
	35s	32	75	2	-40 ~100	
CBV	6s~35s	6~32	45	2	-30 ~120	

(1) Oversize connections

Note:

- Fluid group 2 (non-toxic and non-flammable refrigerants) ;
- Fluid group 1 (toxic and flammable refrigerants) ;
- Solder connection is approved for the qualified A2L, A2, A3 refrigerants, see datasheet
- Flare connections are only approved for the qualified A2L refrigerants, see datasheet

Ignition Hazard Assessments for component(s) used in fluid group I were conducted in accordance to :

EN ISO 80079-36 Non-electrical equipment for explosive atmospheres – Basic method and requirements

The component(s) do not have its own source of ignition according to 2014/34/EU, Article 2 when operated as intended in normal conditions (Category3, Zone 2)

Equipment used for the above condition must be designed, installed and maintained according to: IEC60335-2-24/IEC60335-2-40/IEC60335-2-89/ EN378/ ISO5149/ GBT9237 or equivalent standards.



MANUFACTURER'S DECLARATION

Danfoss A/S

Danfoss Cooling Segment

declares under our sole responsibility that the

Product category : Check Valve , differential pressure valve , Shut off valve , Sight glass

Type designation(s):

Check valves	Type NRV/NRVH (up to 16mm connections), NRV10s H, NRVT, CCV
Differential pressure valve	Type NRD
Sight glasses	Type SG , SGP
Shut-off valve	Type BM
	Type GBC, GBCH (up to 16mm connections) , GBCT

Covered by this declaration is in conformity with the following directive(s), standard(s) or other normative document(s), provided that the product is used in accordance with our instructions.

RoHS Directive 2011/65/EU including amendment 2015/863

EN IEC 63000:2018. Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Above mentioned products conform with the restrictions as specified in Annex II of the RoHS Directive, except for a specific component which however conforms with the exemption **6 (b)** and **6 (c)** as specified in **Annex III** of the RoHS 2 directive.