



**Danfoss A/S**

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**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):**


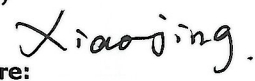
- Check valves                                      Type NRV(H), NRV E, NRV10s H
- Differential pressure valve                  Type NRD
- Sight glasses                                    Type SG, SGP, SGS
- Shut-off valve                                    Type BM ,GBC, GBC E, GBC CO2, GBCH, CBV

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 12284: 2003 "Refrigerating systems and heat pumps – Valves – Requirements, Testing and marking";

Types	Range	DN (mm)	PS (Bar)	Fluid Group	Ts (°C)	PED category
NRV(H) NRD	NRV(H) 6s~28s NRV 6~19 NRD 6s~12s	6-25	46	1, 2	-50 ~ 140	Article 4, Paragraph 3
	NRV(H) 28s <sup>(1)</sup> ~35s	32	46	2	-50 ~ 140	
	NRV(H) 6s~19s NRD 6s~12s	6-19	49	1, 2	-50 ~ 155	
NRV(H) E	22s-28s	22-25	49	1	-50 ~ 155	
	22s-35s	22-32	49	2	-50 ~ 155	
NRV10s H	10s	10	90	2	-50 ~ 140	
SG	SGR,SG 6~22	6-25	35	2	-50 ~ 80	
	SGRH,SGH 6~22	6-25	46	2	-50 ~ 80	
SGP	SGPR, SGP 6~22	6-25	52	1, 2	-50 ~ 80	
SGS	SGS	6-25	52	1, 2	-50 ~ 80	

Date: 2022.03.28 Place of issue: 301700 Tianjin China	Issued by   <b>Signature:</b> <b>Name: Lina Cao</b> <b>Title: Design Engineer</b>	Date: 2022.2.26 Place of issue: 301700 Tianjin China	Approved by   <b>Signature:</b> <b>Name: Jing(Amy) Xiao</b> <b>Title: Director of RD&amp;E , RAC-RPC</b>
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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
GBC	6s~28s	6~25	45	1,2	-40 ~150*	
	35s	32	45	2	-40 ~150*	
GBC CO2	6s~35s	6~32	45	2	-40 ~100	
GBC E	6s~28s	6~25	49	1	-40 ~100	
	6s~35s	6~32	49	2	-40 ~100	
GBCH	6s~28s	6~28	90	2	-40 ~100	
GBCH	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

\* -40°C -150°C (short term 100°C to 150°C), for long term use in high temperature (Temp.> 100°C) application, please consult Danfoss

**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.