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MANUFACTURER’S DECLARATION

Danfoss A/S

Refrigeration & Air Conditioning Controls

Declares under our sole responsibility that the

Product category: Valves

Type designation(s):

Valves: CCM – CCMT – CTR - CVP - CVPP - CVH - CVQ - CVT – CVE - CVC - CVMD - EVM - ORV – AKS 4100/4100U – LLS 4000/4000U - BV - CVMQ - TEAT - TEVA - EVRS - EVRST - EVRB - DSV – ICV PM – ICV – ICS – ICM – ICLX - ICSH - ICMT - ICMTS - ICF – ICF SS - NRVA - NRVS - NRS - FA - FIA – FIA SS -FIL - LLG - MLI - OFV - QDV - REG – REG SS – SCA – SCA SS - CHV – CHV SS - SNV-ST – SNV SS - SVA – SVA SS - AKVA - EVRA - SGT - PMFL/H – CHV-140B

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 (PED)

EN ISO 21922:2021 Refrigerating systems and heat pumps. Valves, Requirements, testing and marking.

Valve group	Types	DN	PS (bar)	Ts (°C)	Fluid Group	PED category
Pilot valves for servo operated main valves	CVP	-	17	-50°/+120°	1 & 2	Article 4, Paragraph 3
			28	-50°/+120°	1 & 2	Article 4, Paragraph 3
			52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	CVPP	-	17	-50°/+120°	1 & 2	Article 4, Paragraph 3
			28	-50°/+120°	1 & 2	Article 4, Paragraph 3
			40	-50°/+120°	1 & 2	Article 4, Paragraph 3
			52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	CVH	-	65	-50°/+120°	1 & 2	Article 4, Paragraph 3
	CVQ	-	17	-50°/+120°	1 & 2	Article 4, Paragraph 3
	CVT	-	19	-40°/+140°	1 & 2	Article 4, Paragraph 3
	VE	-	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3

Date: 2024.08.30 Place of issue: Tianjin, China	Issued by DocuSigned by: Shuwei Liu Signature: 37EA0ECD664F4D3... Name: Shuwei Liu Title: Senior Design Engineer	Date: 2024.08.30 Place of issue: Tianjin, China	Approved by Signed by: Shaohui Li Signature: AA84EB33721F4AD... Name: Shaohui Li Title: Head of RAC RD&E China
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Valve group	Types	DN	PS (bar)	Ts (°C)	Fluid Group	PED category
Pilot valves for servo operated main valves	CVC	-	28	-50°/+120°	1 & 2	Article 4, Paragraph 3
			52	-50°/+120°	1 & 2	Article 4, Paragraph 3
			52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	CVMD	-	28	-50°/+120°	1 & 2	Article 4, Paragraph 3
	CVMQ	-	17	-50°/+120°	1 & 2	Article 4, Paragraph 3
	EVM	-	52	-60°/+120°	1 & 2	Article 4, Paragraph 3
			65	-60°/+120°	1 & 2	Article 4, Paragraph 3
Oil regulating valves	ORV	25	40	-10°/+110°	1 & 2	Article 4, Paragraph 3
Electronic operated modulating control valves	CCMT 3L-5L-8L 3/8" and 1/2"	-	130	-20°/+55°	2*	Article 4, Paragraph 3
	CCMT 3L-5L-8L-10L 5/8" and 7/8"	-	140	-20°/+55°	2*	Article 4, Paragraph 3
	CCMT 10L 1/2"	-	130	-20°/+55°	2*	Article 4, Paragraph 3
	CCM	-	90	-40°/+60°	2*	Article 4, Paragraph 3
	CCMT	-	140	-40°/+60°	1&2**	Article 4, Paragraph 3
	CTR	-	140	-10°/+150°	2*	Article 4, Paragraph 3
Liquid Level Sensor	AKS 4100/4100U	-	100	-60°/+100°	1 & 2	Article 4, Paragraph 3
Liquid Level Switch	LLS 4000 /4000U	-	65	-50°/+120°	1 & 2	Article 4, Paragraph 3
Block valve	BV	-	-	-	1 & 2	Article 4, Paragraph 3
Expansion valves	TEAT	-	20	-	1 & 2	Article 4, Paragraph 3
	TEVA	-	20	-	1 & 2	Article 4, Paragraph 3
Double stop valves	DSV 1	25	40	-50°/+100°	1 & 2	Article 4, Paragraph 3
	DSV 2	20-25	40	-50°/+100°	1 & 2	Article 4, Paragraph 3
	DSV 10	15	65	-50°/+100°	1 & 2	Article 4, Paragraph 3
Electric expansion valves	AKVA	10-15	42	-50°/+60°	1 & 2	Article 4, Paragraph 3
Solenoid valves	EVRS	10-25	50	-40°/+105°	1 & 2	Article 4, Paragraph 3
	EVRST	15-25	50	-40°/+105°	1 & 2	Article 4, Paragraph 3
	EVRB	-	-	-	1 & 2	Article 4, Paragraph 3
	EVRA	3-25	42	-40°/+105°	1 & 2	Article 4, Paragraph 3
	EVRAT	10-20	42	-40°/+105°	1 & 2	Article 4, Paragraph 3
Refrigerant regulation valve	ICV	15-25	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICS	15-25	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICLX	20-25	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICSH	20-25	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	PM	25-32	28	-60°/+120°	1 & 2	Article 4, Paragraph 3
	PMFL/H	20-32	28	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICM	15-25	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICMTS	25	140	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICF-SS	15-25	52	-60°/+120°	1 & 2	Article 4, Paragraph 3
	ICF	15-25	52/65	-60°/+120°	1 & 2	Article 4, Paragraph 3

Valve group	Types	DN	PS (bar)	Ts (°C)	Fluid Group	PED category
Check valves	NRVA	15-25	40	-50°/+140°	1 & 2	Article 4, Paragraph 3
	NRVS	15-25	28	-50°/+140°	1 & 2	Article 4, Paragraph 3
	NRS	15-25	28	-50°/+140°	1 & 2	Article 4, Paragraph 3
Filter	FA	-	42	-50°/+140°	1 & 2	Article 4, Paragraph 3
	FIA	6-25	52/65	-60°/+150°	1 & 2	Article 4, Paragraph 3
	FIA-SS	10-25	52	-60°/+150°	1 & 2	Article 4, Paragraph 3
	FIL	6-25	52	-60°/+150°	1 & 2	Article 4, Paragraph 3
Sight glass	LLG	-	25	-10°/+100°	1 & 2	Article 4, Paragraph 3
				-50°/+30°	1 & 2	Article 4, Paragraph 3
	MLI	20-25	25	-40°/+80°	1 & 2	Article 4, Paragraph 3
	SG	10-25	35	-50°/+80°	1 & 2	Article 4, Paragraph 3
Pressure regulating valves	OFV	20-25	40	-50°/+150°	1 & 2	Article 4, Paragraph 3
Shut-off valve	QDV	-	40	-50°/+150°	1 & 2	Article 4, Paragraph 3
	SVA	3-25	52/65	-60°/+150°	1 & 2	Article 4, Paragraph 3
	SVA-SS	3-25	52	-60°/+150°	1 & 2	Article 4, Paragraph 3
Hand-operated regulating valves	REG	3-25	52/65	-60°/+150°	1 & 2	Article 4, Paragraph 3
	REG-SS	3-25	52	-60°/+150°	1 & 2	Article 4, Paragraph 3
Check & stop valves	SCA	15-25	52/65	-60°/+150°	1 & 2	Article 4, Paragraph 3
	SCA-SS	15-25	52	-60°/+150°	1 & 2	Article 4, Paragraph 3
Check Valves	CHV	15-25	52/65	-60°/+150°	1 & 2	Article 4, Paragraph 3
	CHV-SS	15-25	52	-60°/+150°	1 & 2	Article 4, Paragraph 3
Gauge valves	SNV-ST	-	52/65	-60°/+150°	1 & 2	Article 4, Paragraph 3
	SNV-SS	-	65	-60°/+200°	1 & 2	Article 4, Paragraph 3
Check valves	CHV-140B	15-32	140	-40°/+150°	2	Article 4, Paragraph 3

Note: **Fluid group 1 for R1234yf; Fluid group 2 for non-flammable refrigerants.