

CERTIFICATE

Conformity to type based on quality assurance of the production process according to directive 2014/68/EU

Certificate No.: 07/202/1201/Z/0046/16/D/0085 (rev. 1)

Name and address of manufacturer: Danfoss A/S
Industrial Refrigeration
Nordborgvej 81
DK-6430 Nordborg

We hereby certify that the manufacturer has established a **quality system** for the manufacturing of pressure equipment according to directive 2014/68/EU. The manufacturer is entitled to mark the pressure equipment produced within the range of the quality system with the following mark:

CE 0045

Tested according to 2014/68/EU: **Module D1/D**
Audit report No.: **1201/P/0046/16/D0085/01 and 1201/P/00249/19/D/001(00)**
Range of products: **Control-, solenoid-, manual, and safety valves for industrial refrigeration (see enclosed list)**
Place of manufacture:

- Danfoss A/S, Danfoss Industrial Refrigeration, Albuen 29, 6000 Kolding, Danmark
- Danfoss (Tianjin) Ltd, Production Plant (Wuqing), No.9 Quanhui Road, Wuqing Development Area, 301700 Tianjin, China
- Danfoss Industries S.A. de C.V. Carretera Miguel Aleman 162, Colonia El Milagro Apodaca, Nuevo Leon, Mexico C.P. 66634

This certificate is valid until: **30th September 2019**

Attachment:
List of valve types (a.o. DNandPS)



Notified Body 0045 for pressure equipment



Digitally signed
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Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE

TÜV NORD Systems GmbH & Co. KG, Große Bahnstraße 31, 22525 Hamburg

Annex to Certificate 07/202/1201/Z/0046/16/D0085 rev.1

IRF 2019 Valve production in DKK, DKN, MX and CN for Category II + III + IV

PRODUCT - GROUP		Type designation		PED Module	DN	PS	PS	PED Categories	Production	Production	Production	Production
						Bar	Bar		DKK	CN	MX	DKN
	ALL		General / comments			Bar	Bar		DKK	CN	MX	DKN
Stop Valve	SVA-S		Stop Valves	D1	32- 100	52		II		X	X	
Stop Valve	SVA-S		Stop Valves	D1	32- 100		65	II		X	X	
Stop Valve	SVA-S		Stop Valves	H	125 - 200	52		III		X	X	
Stop Valve	SVA-S		Stop Valves	H	125 - 150		65	III		X	X	
Stop Valve	SVA		Stop Valves Compressor	D1	65 - 100	5		II		X		
Stop Valve	SVA		Stop Valves Compressor	H		5						
Stop Valve	SVA	DH	Stop Valves - high Δp	H	125	2		III		X		
Stop Valve	SVA	DH	Stop Valves - high Δp	H	250	40		III		X		
Stop Valve	SVA	DL	Stop Valves - low Δp	B+D	300	40		IV		X		
Stop Valve	SVA	DL	Stop Valves - low Δp	H	250	40		III		X		
Stop Valve	SVA-S	SS	Stop Valves-stainless steel	B+D	300	40		IV		X		
Stop Valve	SVA-S	SS	Stop Valves-stainless steel	D1	32- 100	52		II		X	X	
Stop Valve	SVA-S	SS	Stop Valves-stainless steel	H	125	52		III		X	X	
Regulating valve	REG	SA/S B	Regulating Valve	D1	32- 65	52		II		X	X	
Regulating valve	REG	SA/S B	Regulating Valve	D1	32 - 50		65	II		X	X	
Regulating valve	REG	SA/S B	Regulating Valve	D1	65		65	II		X	X	
Regulating valve	REG	SS	Stainless Regulating Valve	D1	32- 65	52		II		X	X	
Check Valve	SCA	-	Stop Check Valve	D1	32- 100	52		II		X	X	
Check Valve	SCA	-	Stop Check Valve	D1	32 - 100		65	II		X	X	
Check Valve	SCA	-	Stop Check Valve	H	125	52		III		X	X	
Check Valve	SCA	-	Stop Check Valve	H	125		65	III		X	X	
Check Valve	SCA	SS	Stop Check Valve	D1	32- 40	52		II		X	X	
Check Valve	CHV	-	Check Valve	D1	32- 100	52		II		X	X	
Check Valve	CHV	-	Check Valve	D1	32 - 100		65	II		X	X	
Check Valve	CHV	-	Check Valve	H	125	52		III		X	X	
Check Valve	CHV	-	Check Valve	H	125		65	III		X	X	
Check Valve	CHV	SS	Check Valve	D1	32- 40	52		II		X	X	
Filter	FIA		Filter	D1	32- 100	52		II		X	X	
Filter	FIA		Filter	D1	32- 100		65	II		X	X	
Filter	FIA		Filter	H	125 - 200	52		III		X	X	
Filter	FIA		Filter	H	125 - 150		65	III		X	X	
Filter	FIA		Filter	H	250	40		III		X		
Filter	FIA		Filter	B+D	300	40		IV		X		
Filter	FIA	SS	Filter	D1	32- 100	52		II		X	X	
Filter	FIA	SS	Filter	H	125	52		III		X	X	
Other	KDC-GVD	-	Compressor Discharge valve	D1	65 - 100	52		II	X			
Other	KDC-GVD	-	Compressor Discharge valve	H	125 - 200	52		III	X			
Other	GPLX	-	Gas powered ON-OFF valve	D1	80 - 100	52		II	X			
Other	GPLX	-	Gas powered ON-OFF valve	H	125 - 150	52		III	X			
ICV	ICF	-	ICV Valves	D1	32 - 40	52	65	II	X			
ICV	ICF Large	-	ICV Valves	D1	40-80	52	65	II	X			
ICV	ICS-ICL-ICM-ICLX - ICSH	-	ICV Valves	D1	32-100	52		II	X	X		
ICV	ICS-ICL-ICM-ICLX	-	ICV Valves	D1	32-80		65	II	X	X		
ICV	ICS-ICL-ICM-ICLX	-	ICV Valves	H	125 - 150	52		III	X	X		

ICV	ICS-ICL-ICM-ICLX	-	ICV – F Valves	D1	25-65	28		II	X	X		
Float Valve	HFI	Volum e	Float Valve	H	100 - 150	25		III	X			
Float Valve	SV 5-6	Volum e	Float Valve	D1	-	25		II	X			
Safety	BSV	-	Safety Valve	B+D	8	25		IV	X			
Safety	SFA	-	Safety Valve	B+D	15	40		IV	X			
Safety	SFV	-	Safety Valve	B+D	20 - 25	25		IV	X			
Safety	DSV 2	-	Double Stop Valves (SFV / SFA 15-25)	D1	32	40		II		X		
Safety	POV 1050-2150		Pilot operated internal safety valves	D1	65-80	40		II	X			
PM	PMFL	-	Main valves Liquid level LP (80- 300)	D1	32 -65	28		II	X			
PM	PMFH	-	Main valves Liquid level HP (80- 500)	D1	32 -65	28		II	X			
Solenoid	EVRA	-	Solenoid valves	D1	32-40	42		II	X			
Other	ORV		Oil Temperature Control Valve	D1	65-80	40		II		X		
Check Valve	NRVA	-	Check Valve	D1	32 - 65	40		II		X		
Expansion	AKVA	-	Electronic expansion valve	D1	32- 40	42		II	X			
Stop valve	GBC		Stop valve ball type	D1				II		X		
Check valve	NRV		Check valve	D1				II		X		
Check valve	NRVH		Check valve	D1				II		X		
Expansion valve	TGEL		Thermostatic expansion valve	D1				II		X		
Filter	DCR		Filter drier	D1				II	x		X	
Filter	DML		Filter drier	D1				II			X	
Regulating valve	ETS		Electronic regulating valve	N/A				I				X
Solenoid	EVR		Solenoid valve	D1				II	X	X		

Annex to Certificate 07/202/1201/Z/0046/16/D0085 rev. 1

List of Certificates Module B (design type and production type)

SFA	Certificate no. 07 202 1423 Z 0080/14/D/0120
SFV	Certificate no. 07 202 1321 Z 0018/13/D/01
BSV	Certificate no. 07 202 1321 Z 0007/12/01