Data sheet



Check valve

NRV / NRVH

Version 2

Description

NRV and NRVH piston type check valves are designed for installation in commercial refrigerating systems and in residential or industrial air conditioning plants. They are used to control the unidirectional flow of refrigerant so as to prevent backflow.

Features & benefits

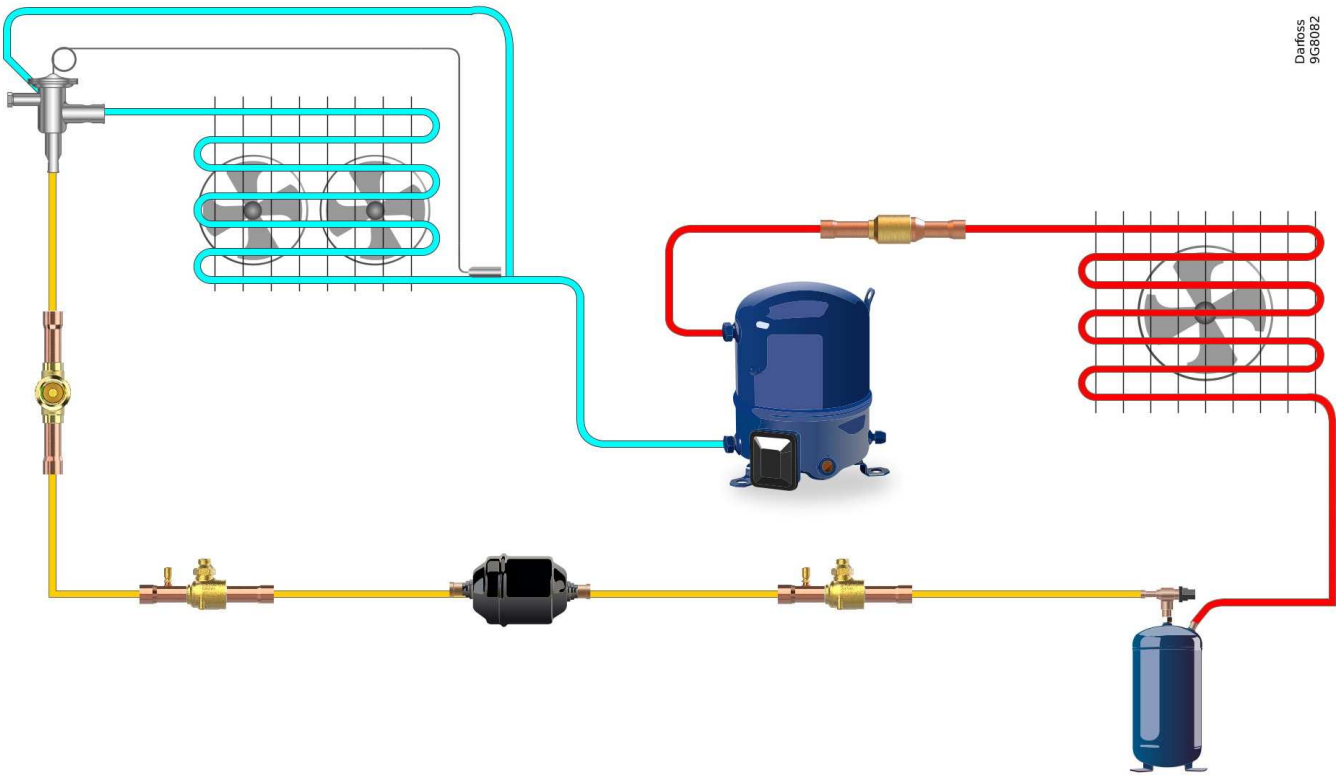
- Available in both straightway and angleway versions which is easy to connect
- Hermetic tight design for solder versions with low risk of external leakage
- Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor
- NRVH type check valve is with stronger spring and it's recommended to use for compressors in parallel (i.e. power packs) where higher level of pulsation and vibration are expected
- Low pressure drop during operation
- Oversize connections provide flexibility in use

Applications

Typical applications for NRV and NRVH valves are:

- Cold room
- Heat pump
- VRF
- Chiller

Figure: Application Diagram



Ordering

Product code numbers

NRV/NRVH code numbers described in this data sheet are standard code numbers, i.e. made to stock. Besides code numbers made to stock NRV/NRVH is also made to order. Make to order options include:

- Mechanical connection type
- Mechanical connection size

Multipack contains several items, individually packed, so that customers can purchase 1 item and receive all relevant documentation.

Industrial pack contains several items that are not individually packed. Industrial packs cannot be broken down, and will only contain documentation on pack level, not on item level.

Straightway flare version without flare nut



Table: Straightway flare version without flare nut

Valve type	SAE flare ext. × ext.	Min. OPD Δp [1]		K_v [2]	C_v [2]	Max. working pressure: PS/MWP	Media temperature range	PED category [Fluid Group 1]	PED category [Fluid Group 2]	Multi pack		Industrial pack	
	[in]	[bar]	[psi]	[m^3/h]	[gal/min]					Code no.	Qty/pack	Code no.	Qty/pack
NRV 6	¼	0.07	1.01	0.56	0.65	46 bar / 667 psig	-50 – 140 °C / -58 – 285 °F	Art. 4.3	Art. 4.3	0201040	25	0200138	140
NRV 10	⅜	0.07	1.01	1.2	1.39					0201041	25	–	–
NRV 12	½	0.05	0.72	2.05	2.37					0201042	25	–	–
NRV 16	⅝	0.05	0.72	3.6	4.16					0201043	25	–	–
NRV 19	¾	0.05	0.72	5.5	6.36					0201044	24	–	–

[1] Δp =Minimum Opening Pressure Differential

[2] The K_V/C_v is the flow of water in [m^3/h – gal/min] at a pressure drop across valve of 1 bar / 14.5 psig, ρ = 1000 kg/m^3 / 62.4 lb/ft^3

Angleway solder ODF version, PS = 46 bar



Table: Angleway solder ODF version, PS = 46 bar

Valve type	Connection solder ODF × ODF		Min. OPD Δp[2]		K_v[3]	C_v[3]	Max. working pressure: PS/MWP	Media temperature range	PED category [Fluid Group 1]	PED category [Fluid Group 2]	Multi pack		Industrial pack	
	[in]	[mm]	[bar]	[psi]	[m^3/h]	[gal/min]					Code no.	Qty/pack	Code no.	Qty/pack
NRV 22s	⅞	22	0.04	0.58	8.5	9.83	46 bar / 667 psig	-50 – 140 °C / -58 – 285 °F	Art. 4.3	Art. 4.3	0201020	18	0201152	12
NRVH 22s	⅞	22	0.30	4.35	8.5	9.83					0201032	18	0200129	12
NRV 22s [1]	1 ⅛	–	0.04	0.58	8.5	9.83					0201060	18	–	–
	–	28	0.04	0.58	8.5	9.83					0201055	18	–	–
NRVH 22s [1]	1 ⅛	–	0.30	4.35	8.5	9.83					0201072	18	–	–
	–	28	0.30	4.35	8.5	9.83					0201067	18	–	–
NRV 28s	1 ⅛	–	0.04	0.58	16.5	19.07					0201021	6	0200126	12
	–	28	0.04	0.58	16.5	19.07					0201025	6	0201153	12
NRVH 28s	1 ⅛	–	0.30	4.35	16.5	19.07					0201029	6	–	–
	–	28	0.30	4.35	16.5	19.07					0201033	6	0200131	12
NRV 28s [1]	1 ⅜	35	0.04	0.58	16.5	19.07			–		0201056	6	–	–
NRVH 28s [1]	1 ⅜	35	0.30	4.35	16.5	19.07					0201068	6	–	–
NRV 35s	1 ⅜	35	0.04	0.58	29	33.52					0201026	6	0201154	12
NRVH 35s	1 ⅜	35	0.30	4.35	29	33.52					0201034	6	0200127	12
NRV 35s [1]	1 ⅝	–	0.04	0.58	29	33.52				Cat. 1	0201061	6	–	–
	–	42	0.04	0.58	29	33.52					0201027	6	–	–
NRVH 35s [1]	1 ⅝	–	0.30	4.35	29	33.52					0201073	6	–	–
	–	42	0.30	4.35	29	33.52					0201035	6	–	–

[1] Oversize connections

[2] Δp =Minimum Opening Pressure Differential

[3] The K_V/C_v is the flow of water in [m^3/h – gal/min] at a pressure drop across valve of 1 bar / 14.5 psig, ρ = 1000 kg/m^3 / 62.4 lb/ft^3

Angleway solder ODF version, PS = 49 bar

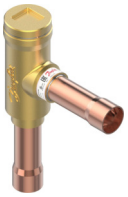


Table: Angleway solder ODF version, PS = 49 bar

Valve type	Connection solder ODF × ODF		Min. OPD Δp[2]		K_v[3]	C_v[3]	Max. working pressure: PS/MWP	Media temperature range	PED category [Fluid Group 1]	PED category [Fluid Group 2]	Multi pack		Industrial pack	
	[in]	[mm]	[bar]	[psi]	[m^3/h]	[gal/ min]					Code no.	Qty/ pack	Code no.	Qty/ pack
NRV 22s E	⅞	22	0.04	0.58	8.5	9.83	49 bar / 710 psig	-50 – 155 °C / -58 – 311 °F	Art. 4.3	–	0203020	18	–	–
NRVH 22s E	⅞	22	0.30	4.35	8.5	9.83					0203032	18	–	–
NRV 22s E [1]	1 ⅛	–	0.04	0.58	8.5	9.83					0203060	18	–	–
	–	28	0.04	0.58	8.5	9.83					0203055	18	–	–
NRVH 22s E [1]	1 ⅛	–	0.30	4.35	8.5	9.83					0203072	18	–	–
	–	28	0.30	4.35	8.5	9.83					0203067	18	–	–
NRV 28s E	1 ⅛	–	0.04	0.58	16.5	19.07					0203021	6	–	–
	–	28	0.04	0.58	16.5	19.07					0203025	6	–	–
NRVH 28s E	1 ⅛	–	0.30	4.35	16.5	19.07					0203029	6	–	–
	–	28	0.30	4.35	16.5	19.07					0203039	6	–	–
NRV 28s E [1]	1 ⅜	35	0.04	0.58	16.5	19.07			Cat. 2		0203056	6	–	–
NRVH 28s E [1]	1 ⅜	35	0.30	4.35	16.5	19.07					0203068	6	–	–
NRV 35s E	1 ⅜	35	0.04	0.58	29	33.52					0203026	6	–	–
NRVH 35s E	1 ⅜	35	0.30	4.35	29	33.52					0203036	6	–	–
NRV 35s E [1]	1 ⅝	–	0.04	0.58	29	33.52					0203061	6	–	–
	–	42	0.04	0.58	29	33.52					0203027	6	–	–
NRVH 35s E [1]	1 ⅝	–	0.30	4.35	29	33.52					0203073	6	–	–
	–	42	0.30	4.35	29	33.52					0203035	6	–	–

[1] Oversize connections

[2] Δp =Minimum Opening Pressure Differential

[3] The K_V/C_v is the flow of water in [m^3/h – gal/min] at a pressure drop across valve of 1 bar / 14.5 psig, ρ = 1000 kg/m^3 / 62.4 lb/ft

Straightway solder ODF version



Table: Straightway solder ODF version

Valve type	Connection solder ODF × ODF		Min. OPD Δp[2]		K_v[3]	C_v[3]	Max. working pressure: PS/MWP	Media temperature range	PED category [Fluid Group 1]	PED category [Fluid Group 2]	Multi pack		Industrial pack	
	[in]	[mm]	[bar]	[psi]	[m^3/h]	[gal/ min]					Code no.	Qty/ pack	Code no.	Qty/ pack
NRV 6s	¼	–	0.04	0.58	0.67	0.77	49 bar / 710 psig	-50 – 155 °C / -58 – 311 °F	Art. 4.3	Art. 4.3	020B1010	25	020B0125	88
	–	6	0.04	0.58	0.67	0.77					020B1014	25	020B1156	88
NRV 6s [1]	⅜	–	0.04	0.58	0.67	0.77					020B1057	25	020B1191	88
	–	10	0.04	0.58	0.67	0.77					020B1050	25	020B1082	88
NRVH 6s [1]	⅜	–	0.20	2.90	0.67	0.77					020B1069	25	–	–
	–	10	0.20	2.90	0.67	0.77					020B1062	25	–	–
NRV 10s	⅜	–	0.04	0.58	1.64	1.90					020B1011	25	020B1168	40
	–	10	0.04	0.58	1.64	1.90					020B1015	25	020B0136	88
NRVH 10s	½	–	0.20	2.90	1.64	1.90					020B1046	25	–	–
	–	12	0.20	2.90	1.64	1.90					020B1036	25	020B0132	88
NRV 10s [1]	½	–	0.04	0.58	1.64	1.90					020B1058	25	020B0165	40
	–	12	0.04	0.58	1.64	1.90					020B1051	25	020B0161	40
NRVH 10s [1]	½	–	0.20	2.90	1.64	1.90					020B1070	25	–	–
	–	12	0.20	2.90	1.64	1.90					020B1063	25	–	–
NRV 12s	½	–	0.02	0.29	2.50	2.89					020B1012	24	020B1155	40
	–	12	0.02	0.29	2.50	2.89					020B1016	24	020B0137	40
NRVH 12s	½	–	0.20	2.90	2.50	2.89					020B1039	24	020B1239	40
	–	12	0.20	2.90	2.50	2.89					020B1037	24	020B0133	40
NRV 12s [1]	⅝	16	0.02	0.29	2.50	2.89					020B1052	24	020B0162	54
NRVH 12s [1]	⅝	16	0.20	2.90	2.50	2.89					020B1064	24	–	–

Table: Straightway solder ODF version (Continued)

Valve type	Connection solder ODF × ODF		Min. OPD Δp[2]		K_v[3]	C_v[3]	Max. working pressure: PS/MWP	Media temperature range	PED category [Fluid Group 1]	PED category [Fluid Group 2]	Multi pack		Industrial pack	
	[in]	[mm]	[bar]	[psi]	[m^3/h]	[gal/ min]					Code no.	Qty/ pack	Code no.	Qty/ pack
NRV 16s	⅝	16	0.02	0.29	4.00	4.62	49 bar / 710 psig	-50 – 155 °C / -58 – 311 °F	Art. 4.3	Art. 4.3	020B1018	24	020B1150	54
NRVH 16s	⅝	16	0.20	2.90	4.00	4.62					020B1038	24	020B0134	54
NRV 16s [1]	–	18	0.02	0.29	4.00	4.62					020B1053	24	–	–
NRVH 16s [1]	–	18	0.20	2.90	4.00	4.62					020B1065	24	–	–
NRV 16s [1]	¾	19	0.02	0.29	4.00	4.62					020B1059	24	–	–
NRVH 16s [1]	¾	19	0.20	2.90	4.00	4.62					020B1071	24	–	–
NRV 19s	–	18	0.02	0.29	6.50	7.51					020B1017	28	–	–
NRVH 19s	–	18	0.14	2.03	6.50	7.51					020B1008	28	–	–
NRV 19s	¾	19	0.02	0.29	6.50	7.51					020B1019	28	–	–
NRVH 19s	¾	19	0.14	2.03	6.50	7.51					020B1023	28	–	–
NRV 19s [1]	⅞	22	0.02	0.29	6.50	7.51					020B1054	28	020B1091	54
NRVH 19s [1]	⅞	22	0.14	2.03	6.50	7.51					020B1066	28	–	–

[1] Oversize connections

[2] Δp =Minimum Opening Pressure Differential

[3] The K_V/C_v is the flow of water in [m^3/h – gal/min] at a pressure drop across valve of 1 bar / 14.5 psig, ρ = 1000 kg/m^3 / 62.4 lb/ft^3

Functions

NRV/NRVH are used to control the unidirectional flow of refrigerant so as to prevent backflow. When selecting the right Danfoss check valve, it's recommended to use Coolselector which is a Danfoss calculation and selection software. When dimensioning and selecting Danfoss check valves for mounting into the compressor discharge line, it is important to be aware of the following:

The differential pressure across the valve must always be higher than the given minimum pressure drop at which the valve is open. This also applies to lowest capacities for compressor with capacity regulation. NRVH type check valve is with stronger spring, and it's recommended to use for compressors in parallel (i.e. power packs) where higher level of pulsation and vibration are expected.

Media

Refrigerants

Table: Media

Valve type	Connection type	Max. working pressure (PS/MWP)	Refrigerants
NRV/NRVH 6-19	Straightway-flare	46 bar / 667 psig	R134a, R22/R407C, R404A/R507, R407A, R407F, R407H, R410A, R448A, R449A, R449B, R450A, R452A, R452B, R454A, R454B, R454C, R455A, R513A, R515B, R516A, R1233zd(E), R1234ze(E), R1234yf
NRV/NRVH 6s-19s[1]	Straightway-solder	49 bar / 710 psig	R134a, R22/R407C, R290, R32, R404A/R507, R407A, R407F, R407H, R410A, R448A, R449A, R449B, R450A, R452A, R452B, R454A, R454B, R454C, R455A, R513A, R515B, R516A, R600, R600a, R1233zd(E), R1234ze(E), R1234yf, R1270
NRV/NRVH 22s-35s[1]	Angleway-solder	46 bar / 667 psig	R134a, R22/R407C, R290[2], R404A/R507, R407A, R407F, R407H, R410A, R448A, R449A, R449B, R450A, R452A, R452B[2], R454A[2], R454B[2], R454C[2], R455A[2], R513A, R515B, R516A[2], R600[2], R600a[2], R1233zd(E), R1234ze(E), R1234yf[2], R1270[2]
NRV/NRVH 22s E-35s E[1]	Angleway-solder	49 bar / 710 psig	R290, R32, R452B, R454A, R454B, R454C, R455A, R516A, R600, R600a, R1234ze(E), R1234yf, R1270

[1] Oversize connections

[2] NRV/NRVH 28s[1]-35s[1] can be used with flammable refrigerants, without certificate of PED Fluid Group 1, category II

Refrigerant oil	POE, PAG (PVE, PAO)

Note:

- For a complete list of approved refrigerants, visit http://store.danfoss.com/ and search for individual code numbers, where refrigerants are listed as part of product details.
- This product is approved for R290, R32, R452B, R454A, R454B, R454C, R455A, R516A, R600, R600a, R1234ze(E), R1234yf and R1270 by ignition source assessment in accordance to standard EN ISO 80079-36.
- NRV/NRVH is not suitable for oil line application. For detailed information please contact Danfoss.
- Flare/face seal connections are only approved for A1 and A2L refrigerants.
- R32 can only be used for 49 bar NRV/NRVH.
- R1234ze can be used for NRV size up to 35s according to the PED category I, Fluid II.

Product details

General data

Table: Technical data

Technical data	Values
Maximum working pressure	See ordering table
Media temperature range	See ordering table
Environmental transport/storage temperature and humidity	-40 – 65 °C / -40 – 150 °F. Air humidity: RH ≤95%
Flow direction	Single flow
Serviceable	No

Identification

Relevant product data is available on the product and box label. An example of a box label and product label are shown, including an explanation of the content.

Figure: Box label

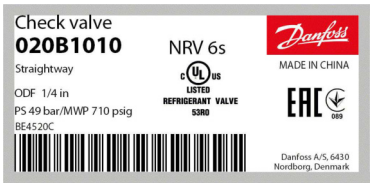


Figure: Product label

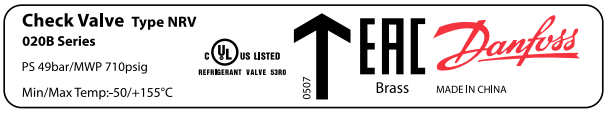


Table: Product and label text

Position	Inscription	Explanation
Box label; Product label	Check valve	Product name
Box label	020B1010	Code number for ordering
Box label	NRV 6s	Product type; no numeral on product label
Box label	Straightway	Direction
Box label	ODF ¼ in	Connection size and type
Box label; Product label	PS 49 bar / MWP 710 psig	Max. working pressure in bar and psig
Box label	BE4520C	Code for production place and time (BE = Wuqing, week 45, year 2020, weekday C = Wednesday)
Box label; Product label	MADE IN CHINA	Manufacturing site acc. to EN standards
Box label	EAN code	Barcode for individual code no. identification according to EAN standard
Product label	Min./max. temp: -50 / +155 °C	Media temperature range, min. and max.
Product label	Arrow	Flow direction indicator
Box label; Product label	Additional information: Relevant approval authority logos	–

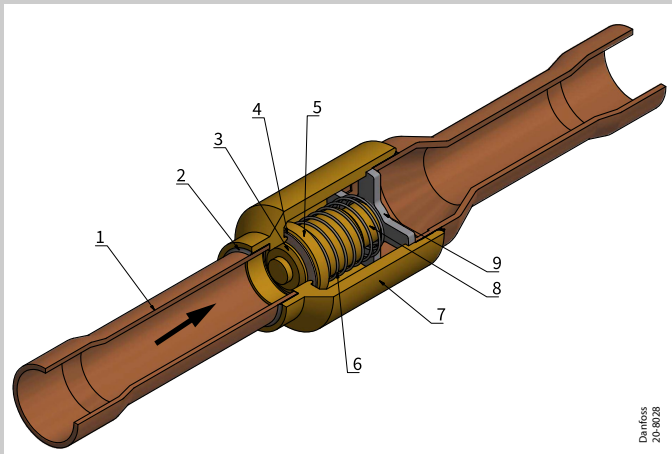
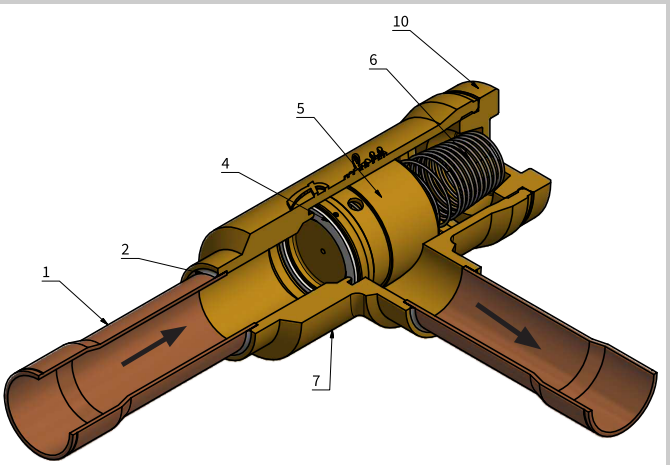
Design

The pressure of the fluid passing through a refrigeration system opens the valve, while any reverse flow closes the valve.

In NRV/NRVH check valves a sealing disc is activated by the spring to close or open the valve, and the force of the spring determines the differential opening pressure. When the refrigerant flows through the valve and the differential pressure is more than min. opening pressure, the piston will move to stop face and compress the spring, then the valve will open.

NRV/NRVH valves are equipped with a damping piston for improved performance in lines where pulsations can occur, e.g. in the discharge line from a compressor.

Materials

Straightway solder version	Angleway solder version
	

Position	Description	Material
1	Connection tube	Copper
2	Solder ring	Ag alloy
3	Washer	Brass
4	Disk	PTFE with glass fiber
5	Piston	Brass
6	Spring	Stainless steel
7	Valve body	Brass
8	Guide	Brass
9	Stop face	Stainless steel
10	Cover	Brass

Capacity

Valve selection based on capacity calculation

As for extended capacity calculations and valve selection based on capacities and refrigerants, please refer to Coolselector®2. Rated and extended capacities are calculated with the Coolselector®2 calculation engine to ARI standards with the ASEREP equations based on laboratory measurements of selected valves.

Dimensions

We have chosen to show dimensions of the major versions.
You will find downloadable dimension drawings for individual code numbers on Danfoss store as part of the visuals tab for individual code numbers.
Weights also differ depending on the design of the individual code numbers. Weights are available as part of the technical data for individual code numbers on Danfoss store.

Flare straightway version

Figure: Flare straightway version

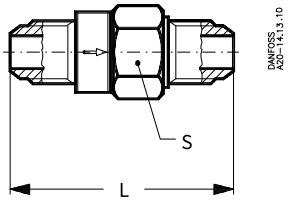


Table: Flare straightway version

Type	SAE flare	Flare	L	Spanner flats S	Net weight
	[in]	Thread	[mm]	[mm]	[kg]
NRV 6	¼	7/16-20UNF-2A	55	19	0.072
NRV 10	⅜	5/8-18UNF-2A	60	19	0.088
NRV 12	½	¾-16UNF-2A	70	24	0.14
NRV 16	⅝	⅞-14UNF-2A	81	28	0.206
NRV 19	¾	1 1/16-14UNS-2A	95	34	0.344

Solder straightway version

Figure: Solder straightway version

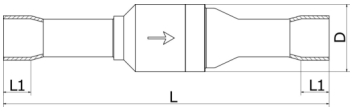


Table: Solder straightway version

Type	Connection Size		Connection tolerance	L	L1	øD	Net weight
	[in]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
NRV/NRVH 6s	¼	6	0.065/0.155	92	7	18	0.05
NRV/NRVH 6s(1)	⅜	10	0.06/0.13	95	9	18	0.06
NRV/NRVH 10s	⅜	10	0.065/0.155	109	9	18	0.05
NRV/NRVH 10s(1)	½	12	0.065/0.155	109	10	18	0.06
NRV/NRVH 12s	½	12	0.065/0.155	131	10	22	0.09
NRV/NRVH 12s(1)	⅝	16	0.065/0.155	131	12	22	0.09
NRV/NRVH 16s	⅝	16	0.065/0.155	139	12	28	0.16
NRV/NRVH 16s(1)	–	18	0.065/0.155	139	14	28	0.17
NRV/NRVH 16s(1)	¾	19	0.065/0.155	139	14	28	0.17
NRV/NRVH 19s	–	18	0.065/0.155	165	14	34	0.27
NRV/NRVH 19s	¾	19	0.065/0.155	165	14	34	0.28
NRV/NRVH 19s(1)	⅞	22	0.075/0.185	165	17	34	0.28

(1) Oversize connections

Solder angleway connection

Figure: Solder angleway connection

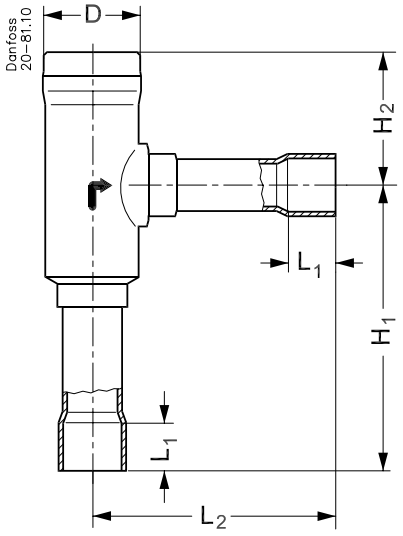


Table: Solder angleway connection

Type	Connection size		Connection tolerance	H_1	H_2	L_1	L_2	øD	Net weight
	[in]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
NRV/NRVH 22s	⅞	22	0.075/0.185	94	48	17	87	37	0.584
NRV/NRVH 22s[1]	1 ⅛	28	0.075/0.185	94	48	22	87	37	0.616
NRV/NRVH 28s	1 ⅛	28	0.075/0.185	141	67	20	123	49	1.330
NRV/NRVH 28s[1]	1 ⅜	35	0.09/0.23	141	67	25	123	49	1.478
NRV/NRVH 35s	1 ⅜	35	0.09/0.23	141	67	25	123	49	1.400
NRV/NRVH 35s[1]	1 ⅝	42	0.09/0.23	141	67	29	123	49	1.388

[1] Oversize connections

Connections

Standard NRV/NRVH versions can be provided with straightway and angleway, connection types of flare or solder ODF in a wide variety of connection sizes. Solder versions are with extended ends copper connections, flare versions with brass connections.

Table: Connections

Direction	Inlet	Outlet	Connections [mm]	Connections [in]
Straightway	Flare	Flare	–	¼ x ¼ ⅜ x ⅜ ½ x ½ ⅝ x ⅝ ¾ x ¾
Straightway	Solder ODF	Solder ODF	6 x 6 10 x 10 12 x 12 16 x 16 18 x 18 19 x 19 22 x 22	¼ x ¼ ⅜ x ⅜ ½ x ½ ⅝ x ⅝ ¾ x ¾ ⅞ x ⅞
Angleway	Solder ODF	Solder ODF	22 x 22 28 x 28 35 x 35 42 x 42	⅞ x ⅞ 1 ⅛ x 1 ⅛ 1 ⅜ x 1 ⅜ 1 ⅝ x 1 ⅝

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Manufacturer's Declaration	Danfoss MD 033F4001.AL	Danfoss	PED, Pressure
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EU Declaration	Danfoss EU-UK 033F4002.AM	Danfoss	PED, Pressure
Pressure Safety Certificate	TÜV 0045 202 9120 Z 00447 25 D 001(00)	TÜV NORD - Technischer ÜberwachungsVerein	PED, Pressure

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