Data sheet



Gauge valve

SNV-ST / SNV-SS

For servicing of heavy-duty industrial refrigeration applications

Description

SNV stop gauge are designed as service valves with a very sturdy construction. SNV-ST are made in steel approved for low temperature operations. SVA-SS are stainless steel versions.

SNV-ST and SNV-SS are available in standard branch length configuration as well as extended branch configuration, with extension length versions from 50 to 150 mm.

Features & benefits

- Applicable to HCFC, non flammable HFC, R717 (Ammonia), R744 (CO_2) and hydrocarbons
- Suitable for "heavy duty" industrial applications including high pressures and wide temperature range
- The SNV-ST and SNV-SS valves have backseating (metal to metal)
- Compact and light valve for easy handling and installation
- Provides high flow characteristics and specific flow direction is not required
- Each valve type is clearly marked with type and size
- Housing and bonnet material is low temperature steel (stainless steel for SNV-SS) according to requirements of the Pressure Equipment Directive and other international classification authorities
- Valve safety is enhanced with the spindle being secured such that it cannot be unscrewed
- Standard versions available with Max. operating pressure ranges
    - 52 bar / 754 psig Valves
    - 65 bar / 943 psig Valves
    - 140 bar / 2030 psig Valves
- Full temperature range:
    - SNV-ST: -60 – 150 °C / -76 – 302 °F
    - SNV-SS: -60 – 200 °C / -76 – 392 °F

Ordering

Product code numbers

SNV Steel

Table: SNV-ST to ANSI/ASME B1.20.1, Standard branch, 52 bar MWP

Type	Spec. key	Bottom branch	Side branch	Equipment	Packing format*	Qty/pack	Code no.
SNV-ST	SNV-ST CD6-1/4MPT	¼ NPT ext	Cutting ring 6 mm	Cap	Multi pack	12 pc	**148B3742**
SNV-ST	SNV-ST CD6-⅜MPT	⅜ NPT ext	Cutting ring 6 mm	Cap	Multi pack	12 pc	**148B3744**
SNV-ST	SNV-ST CD6-¼MPT	¼ NPT ext	Cutting ring 6 mm	Handwheel	Industrial pack	30 pc	**148B4216**
SNV-ST	SNV-ST CD10-¼MPT	¼ NPT ext	Cutting ring 10 mm	Cap	Multi pack	12 pc	**148B3741**
SNV-ST	SNV-ST CD10-⅜MPT	⅜ NPT ext	Cutting ring 10 mm	Cap	Multi pack	12 pc	**148B3743**
SNV-ST	SNV-ST 7⁄16UNF-¼MPT	¼ NPT ext	7⁄16 UNF ext	Cap	Industrial pack	30 pc	**148B4230**
SNV-ST	SNV-ST 7⁄16UNF-¼MPT	¼ NPT ext	7⁄16 UNF ext	Cap	Multi pack	12 pc	**148B4566**
SNV-ST	SNV-ST ⅜FPT-⅜MPT	⅜ NPT ext	⅜ NPT int	Cap	Multi pack	12 pc	**148B3747**
SNV-ST	SNV-ST ⅜FPT-⅜MPT	⅜ NPT ext	⅜ NPT int	Cap	Industrial pack	30 pc	**148B4181**
SNV-ST	SNV-ST ⅜FPT-⅜FPT	⅜ NPT int	⅜ NPT int	Cap	Industrial pack	30 pc	**148B4225**
SNV-ST	SNV-ST ⅜FPT-½MPT	½ NPT ext	⅜ NPT int	Cap	Industrial pack	30 pc	**148B4233**
SNV-ST	SNV-ST ⅜FPT-½MPT	½ NPT ext	⅜ NPT int	Cap	Multi pack	12 pc	**148B4565**
SNV-ST	SNV-ST ⅜FPT-⅜FPT	⅜ NPT int	⅜ NPT int	Cap	Multi pack	12 pc	**148B4572**
SNV-ST	SNV-ST ¼FPT-¼MPT	¼ NPT ext	¼ NPT int	Cap	Multi pack	12 pc	**148B3746**
SNV-ST	SNV-ST ¼FPT-¼MPT	¼ NPT ext	¼ NPT int	Cap	Industrial pack	30 pc	**148B4180**
SNV-ST	SNV-ST ¼FPT-¼FPT	¼ NPT int	¼ NPT int	Cap	Multi pack	12 pc	**148B4568**
SNV-ST	SNV-ST ¼FPT-¼MPT	¼ NPT ext	¼ NPT int	Cap, Adapter for ICS	Multi pack	6 pc	**148B4772**
SNV-ST	SNV-ST ½MPT-½MPT	½ NPT ext	½ NPT ext	Cap	Industrial pack	30 pc	**148B4224**
SNV-ST	SNV-ST ½MPT-⅜FPT	⅜ NPT int	½ NPT ext	Cap	Industrial pack	30 pc	**148B4226**
SNV-ST	SNV-ST ½MPT-½MPT	½ NPT ext	½ NPT ext	Cap	Multi pack	12 pc	**148B4564**

Table: SNV-ST to ANSI/ASME B1.20.1, Extended branch, 52 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equip-ment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST ¼FPT-¼MPT L100	¼ NPT ext	100 mm / 4 inch	¼ NPT int	Cap	Industrial pack	20 pc	**148B4232**
SNV-ST	SNV-ST ¼FPT-¼MPT L100	¼ NPT ext	100 mm / 4 inch	¼ NPT int	Cap	Multi pack	6 pc	**148B4567**
SNV-ST	SNV-ST ¼FPT-W½ L100	Butt weld ½ inch	100 mm / 4 inch	¼ NPT int	Handwheel	Industrial pack	30 pc	**148B4408**
SNV-ST	SNV-ST ¼FPT-W½ L100	Butt weld ½ inch ext	100 mm / 4 inch	¼ NPT int	Cap	Industrial pack	20 pc	**148B4495**

Table: SNV-ST to EN 10220, Extended branch, 52 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST G½-W½ L50	Butt weld ½ inch	50 mm / 2 inch	G ½A	Cap	Industrial pack	30 pc	**148B4218**
SNV-ST	SNV-ST G½-W½ L50	Butt weld ½ inch	50 mm / 2 inch	G ½A	Cap	Multi pack	12 pc	**148B4570**
SNV-ST	SNV-ST G½-W½ L100	Butt weld ½ inch	100 mm / 4 inch	G ½A	Cap	Multi pack	6 pc	**148B3769**
SNV-ST	SNV-ST G½-W½ L100	Butt weld ½ inch	100 mm / 4 inch	G ½A	Cap	Industrial pack	30 pc	**148B4211**

Table: SNV-ST to DIN 3861, Standard & extended branch, 52 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST CD10-CD10	Cutting ring 10 mm	Standard	Cutting ring 10 mm	Cap	Multi pack	12 pc	**148B3740**
SNV-ST	SNV-ST CD10-CD10	Cutting ring 10 mm	Standard	Cutting ring 10 mm	Cap	Industrial pack	30 pc	**148B4177**

Table: SNV-ST to DIN 3861, Standard & extended branch, 65 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST CD10-W½ L100	Butt weld ½ inch	100 mm / 4 inch	Cutting ring 10 mm	Cap	Multi pack	6 pc	**148B3768**
SNV-ST	SNV-ST CD10-W½ L100	Butt weld ½ inch	100 mm / 4 inch	Cutting ring 10 mm	Cap	Industrial pack	30 pc	**148B4210**

Table: SNV-ST to ISO 228-1, Standard, 52 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST G½-G½	G ½A	Standard	G ½A	Cap	Multi pack	12 pc	**148B3745**
SNV-ST	SNV-ST G½ MAN	G ½A	Standard	G ½A	Cap Manometer conn.	Multi pack	6 pc	**148B3778**[1)]

[1)] Including adapter for connection to ICS or manometer (G½ - G¼)

Table: SNV-ST to ISO 7-1, Standard branch, 52 bar MWP

Type	Spec. Key	Bottom branch	Side branch	Equipment	Packing format*	Qty/pack	Code no.
SNV-ST	SNV-ST Rc⅜-R⅜	R ⅜ ext	Rc ⅜ int	Cap	Industrial pack	30 pc	**148B4227**
SNV-ST	SNV-ST Rc¼-R⅜	R ⅜ ext	Rc ¼ int	Cap	Industrial pack	30 pc	**148B4228**
SNV-ST	SNV-ST Rc¼-R¼	R ¼ ext	Rc ¼ int	Cap	Industrial pack	30 pc	**148B4229**

Table: SNV-ST to DIN 3901, Standard & extended branch, 65 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST CD10-CD10	Cutting ring 10 mm	Standard	Cutting ring 10 mm	Cap	Multi pack	12 pc	**148B6400**

Table: SNV-ST to EN 10220 extended branch, 65 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST G½-W½ L125	Butt weld ½ inch	125/5 inch	G½A	Cap	Multi pack	12 pc	**148B4571**
SNV-ST	SNV-ST G½-W½ L125	Butt weld ½ inch	125/5 inch	G½A	Cap	Industrial pack	30 pc	**148B4219**

Table: SNV-ST to ANSI/ASME B1.20.1 / ISO 228-1, Standard branch, 140 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST ¼FPT-¼MPT	¼MPT	STD	¼FPT	Cap	Multi pack	12 pc	**148B0082**
SNV-ST	SNV-ST G½-G½	G½A	STD	G½A	Cap	Multi pack	12 pc	**148B0084**
SNV-ST	SNV-ST ¼FPT-¼MPT	¼MPT	STD	¼FPT	Cap	Industrial pack	30 pc	**148B3878**
SNV-ST	SNV-ST G½-G½	G½A	STD	G½A	Cap	Industrial pack	30 pc	**148B3880**

Table: SNV-ST to EN 10220, Extended branch, 140 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST G½-W½ L100	Butt Weld ½ inch	100 mm / 4 inch	G½A	Cap	Multi pack	6 pc	**148B3874**
SNV-ST	SNV-ST G½-W½ L100	Butt Weld ½ inch	100 mm / 4 inch	G½A	Cap	Industrial pack	30 pc	**148B3876**

Table: SNV-ST to DIN 3861, Extended branch, 140 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equip-ment	Packing format*	Qty/ pack	Code no.
SNV-ST	SNV-ST CD10-W½ L100	Butt Weld ½ inch	100 mm / 4 inch	Cutting ring 10 mm	Cap	Multi pack	6 pc	**148B3709**
SNV-ST	SNV-ST CD10-W½ L100	Butt Weld ½ inch	100 mm / 4 inch	Cutting ring 10 mm	Cap	Industrial pack	30 pc	**148B3719**

SNV Stainless steel

Table: SNV-SS to ANSI/ASME B1.20.1, Standard branch, 65 bar MWP

Type	Spec. Key	Bottom branch	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-SS	SNV-SS ⅜FPT-⅜MPT	⅜ NPT ext	⅜ NPT int	Cap	Multi pack	6 pc	**148B3750**
SNV-SS	SNV-SS ⅜FPT-⅜MPT	⅜ NPT ext	⅜ NPT int	Cap	Industrial pack	30 pc	**148B3986**
SNV-SS	SNV-SS ¼FPT-¼MPT	¼ NPT ext	¼ NPT int	Cap	Multi pack	6 pc	**148B4771**
SNV-SS	SNV-SS ¼FPT-¼MPT	¼ NPT ext	¼ NPT int	Cap	Industrial pack	30 pc	**148B4783**
SNV-SS	SNV-SS CD 10 -CD 10	Cutting ring 10 mm	Cutting ring 10 mm	Cap	Multi pack	6 pc	**148B4693**

Table: SNV-SS to EN 10220, Extended branch, 65 bar MWP

Type	Spec. Key	Bottom branch	Bottom branch length	Side branch	Equipment	Packing format*	Qty/ pack	Code no.
SNV-SS	SNV-SS G½-W½ L50 65 bar	Butt weld ½ inch	50 mm / 2 inch	G ½A	Cap	Multi pack	6 pc	**148B4581**
SNV-SS	SNV-SS G½-W½ L150 65 bar	Butt weld ½ inch	150 mm / 6 inch	G ½A	Cap	Multi pack	12 pc	**148B4582**
SNV-SS	SNV-SS G½-W½ L50 65 bar	Butt weld ½ inch	50 mm / 2 inch	G ½A	Cap	Industrial pack	30 pc	**148B4784**
SNV-SS	SNV-SS G½-W½ L150 65 bar	Butt weld ½ inch	150 mm / 6 inch	G ½A	Cap	Industrial pack	30 pc	**148B4785**

Table: SNV-SS to ISO 228-1, Standard branch, 65 bar MWP

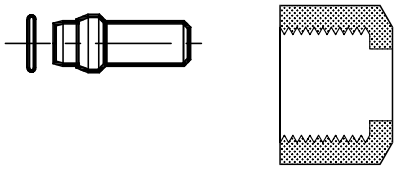
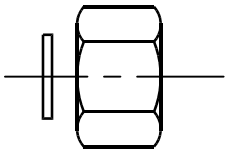
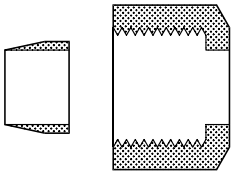
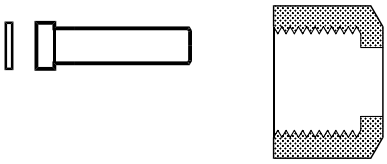
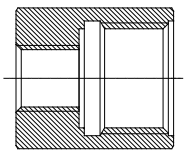
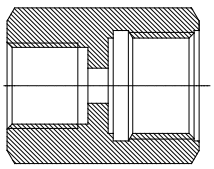
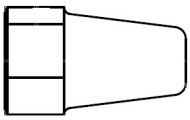
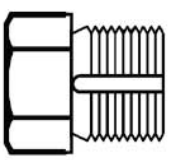
Type	Spec. Key	Bottom branch	Side branch	Equipment	Packing format*	Qty/pack	Code no.
SNV-SS	SNV-SS G½ MAN	G ½A	G ½A	Cap Manometer conn	Multi pack	6 pc	**148B6545**[1)]

[1)] Including adapter for connection to ICF valve (G½ - G⅜)

Packing format definitions

- Multi pack items can be ordered as 1 pc and up to the specified number of items pr multi pack. Each item is packed together with relevant documentation in individual packages
- Industrial pack contains the number of items specified. Items are not individually packed and can only be ordered in pack quantity. Documentation is on pack level, not on item level

Accessories code numbers

Type		Connection type	Quantity	Code no.
	Weld nipple incl. union nut and O-ring	CD 10	1 pc	**148B3729**
	Blind nut incl. gasket	G½	1 pc	**148B3450**
	Blind nut SS incl. gasket			**148B4317**
	CD 6 Cutting ring + union nut	CD 6	1 pc	**148B4182**
			60 pcs	**148B4217**
	CD 10 Cutting ring + union nut	CD 10	1 pc	**148B4183**
			60 pcs	**148B4186**
	Welding nipple (Al gaskets included)	G½ - ND6	2 pcs	**148B4184**
	Adapter kit (Al gaskets included)	¼" FPT - ½" G	1 pc	**148B3660**
	Adapter kit (Al gaskets included)	⅜" G - ½" G	1 pc	**148B3661**
	Seal cap & gasket - SNV-ST		1 pc	**148B4576**
	Seal cap & gasket - SNV-SS			**148B3269**
	Plug and gasket	G½ (external)	1 pc	**148B3462**

Overview

Product portfolio

SNV-ST and SNV-SS offers numerous configurations and connections as well as versions for high-pressure applications, as shown in table.
Versions with different properties may be produced to order. Contact Danfoss for further information about made to order products.

Figure: SNV-ST



Figure: SNV-SS



Table: SNV-ST and SNV-SS options

Description	SNV-ST	SNV-SS
Configuration	Standard Extended branch	Standard Extended branch
Valve body/connection material	Steel	Stainless steel
Equipment	Cap Handwheel	Cap
Connection standard	ANSI/ASME B1.20.1 DIN 3861 DIN 3901 EN 10220 ISO 228-1 ISO 7-1	ANSI/ASME B1.20.1 EN 10220 ISO 228-1
Bottom branch connection type	Butt weld Cutting ring G NPT R	Butt weld Cutting ring G NPT
Side branch connection type	Cutting ring G NPT Rc UNF	Cutting ring G NPT
Special connections	Manometer connection	Manometer connection
Max. working pressure [bar]	52 bar 65 bar 140 bar	65 bar
Max. working pressure [psig]	754 psig 943 psig 2030 psig	943 psig
Packing format	Multi pack Industrial pack	Multi pack Industrial pack

NOTE:

Not all combinations are possible. For an overview over standard code number properties, refer to Ordering chapter.

Media

Refrigerants

SNV-ST and SNV-SS valves are currently authorized by Danfoss for use with more than 70 R-numbers HCFC, non- flammable HFC, Ammonia, CO_2 and hydrocarbons.

New refrigerants

Danfoss products are continually evaluated for use with new refrigerants depending on market requirements.

When a refrigerant is approved for use by Danfoss, it is added to the relevant portfolio, and the R number of the refrigerant (e.g. R513A) will be added to the technical data of the code number. Therefore, products for specific refrigerants are best checked at store.danfoss.com/en/, or by contacting your local Danfoss representative.

Product details

Design

Housing
Made of special steel, approved for low temperature operations.

Spindle
Equipped with stainless steel spindle, which is ideal for O-ring sealing.

Materials

Table: SNV-ST and SNV-SS

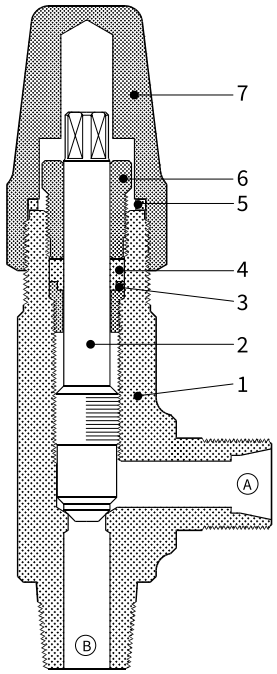
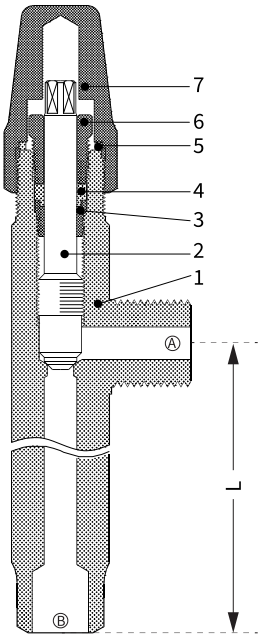
SNV-ST	SNV-ST and SNV-SS (extended branch)
	

Table: Material specification according to standards

No.	Part	Material	EN	JIS	ASTM
1	Housing	Steel	P285QH EN 10222-4	SFL 2 G 3205	LF2 A350
		Stainless steel (SNV-S5)	XSCrNi18-10, 10088		AISI 304
2	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088 DIN 17440 (SNV-S5 only)	SUS 303	AISI 303
3	Locking ring	Steel			
4	Sealing ring	Teflon			
5	Seal cap gasket	Nylon			
6	Gland nut	Steel			
7	Seal cap	Steel			

Pressure and temperature data

Temperature range	**SNV-ST:** -60 – 150 °C / -76 – 302 °F **SNV-SS:** -60 – 200 °C / -76 – 392 °F
Maximum working pressure (see Ordering section)	Standard versions available with Max. operating pressure ranges: • 52 bar / 754 psig Valves • 65 bar / 943 psig Valves • 140 bar / 2030 psig Valves

Dimensions

Figure: SNV-ST

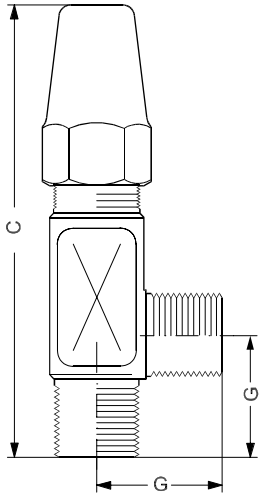


Figure: SNV-ST (Manometer)

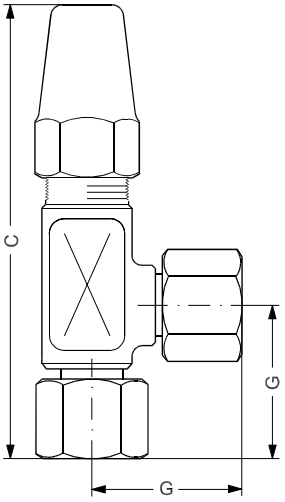


Table: SNV-ST Standard versions

Type	Size	C	G	Weight
SNV-ST	**[mm]**	115	32	0.36 kg
	[in]	4.53	1.26	0.79 lbs
SNV-ST (Manometer)	**[mm]**	127	45	0.56 kg
	[in]	5.00	1.77	1.22 lbs

Figure: Extended branch

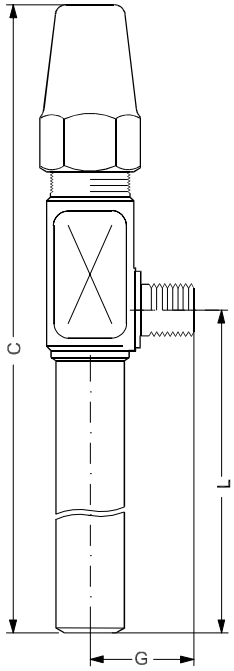


Table: Extended branch versions

Type	Size	C	G	L	Weight
SNV-ST	**[mm]**	131	32	50	0.50 kg
	[in]	5.16	1.26	1.97	1.102 lbs
	[mm]	181	32	100	0.60 kg
	[in]	7.13	1.26	3.94	1.32 lbs
	[mm]	206	32	125	0.72 kg
	[in]	8.11	1.26	4.92	1.587 lbs
SNV-SS	**[mm]**	131	32	50	0.50 kg
	[in]	5.16	1.26	1.97	1.102 lbs
	[mm]	231	32	150	0.80 kg
	[in]	9.09	1.26	5.91	1.763 lbs

NOTE:
Specified weights are nominal and may differ depending on actual configuration of the code number.

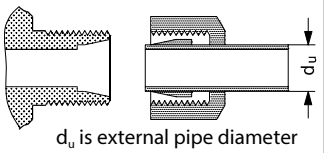
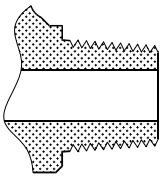
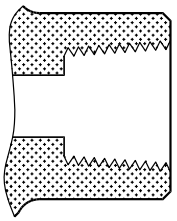
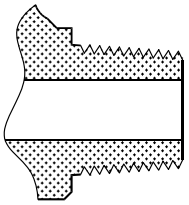
Connections

Available with the following connections:

- CD Cutting ring
- MPT Male NPT thread (ANSI/ASME B1.20.1)
- FPT Female NPT thread (ANSI/ASME B1.20.1)
- R Male thread (ISO 7-1)
- Rc Female thread (ISO 7-1)
- G thread
- W Welding connection

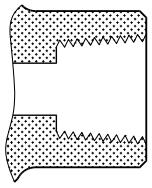
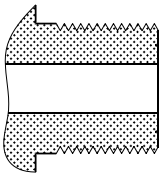
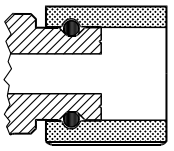
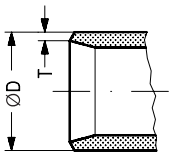
For more details refer to Ordering chapter.

Table: Connections

CD 6 CD 10	¼ MPT ⅜ MPT	¼ FPT ⅜ FPT	¼ R ⅜ R
 d_u is external pipe diameter			
Cutting ring, DIN 3861 & DIN 3901 class L, d_u = 6 mm Cutting ring, DIN 3861 & DIN 3901 class L, d_u = 10 mm	¼ inch male NPT ANSI/ASME B1.20.1 ⅜ inch male NPT ANSI/ASME B1.20.1	¼ inch female NPT ANSI/ASME B1.20.1 ⅜ inch female NPT ANSI/ASME B1.20.1	¼ inch male ISO 7-1 ⅜ inch male ISO 7-1

Note:
Fittings not included.

Table: Connections

¼ RC ⅜ RC	G ½		W
			
¼ inch female ISO 7-1 ⅜ inch female ISO 7-1	G ½ inch		½ inch welding connection D = 21.3 mm / 0.839 inch T = 2.3 mm / 0.091 inch

Installation

No special Flow direction is required. The valve is designed to withstand high internal pressures. However, the piping system in general should be designed to avoid liquid traps and reduce the risk of hydraulic pressure caused by thermal expansion.

For further information refer to installation guide for SNV-ST and SNV-SS.

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
Manufacturer's Declaration	Danfoss MD 033F1196.02	Danfoss	ATEX
Export Control Declaration	Shut-off and regulating valves Gauge valve	Danfoss	
Pressure Safety Certificate	LLC CDC EURO-TYSK UA.TR.089.1015.02-22	LLC CDC EURO TYSK - Ukraine	PED, Pressure
Manufacturer's Declaration	Danfoss MD 033F0691.AK	Danfoss	EU RoHS
Export Control Declaration	Shut-off and regulating valves Gauge valve – Stain less steel	Danfoss	

Contact details

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