

Stop valves for industrial refrigeration,

Type SVA 6 (1/4 in.) - 10 (3/8 in.)

Type SVA-ST and SVA-HS 15 (1/2 in.) - 200 (8 in.)

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Introduction



SVA are angleway and straightway stop valves which are designed to meet all industrial refrigeration application requirements. The valves are designed to give favourable flow

characteristics and are easy to dismantle and repair when necessary. The valve cone is designed to ensure perfect closing.

Features

- Applicable to all common refrigerants including R717 and non corrosive gases/ liquids dependent on sealing material compatibility
- Optional accessories:
 - Heavy duty industrial hand wheel for frequent operation
 - Cap for infrequent operation
- Available in angleway and straightway versions with standard bonnet or extended bonnet (15-100) for insulated systems
- Each valve type is clearly marked with type, size and performance range
- The valves and caps are prepared for sealing, to prevent operation by unauthorized persons, using a seal wire
- Internal metal backseating
 - DN 6 - 65 (1/4 - 2 1/2 in.)
 - Internal PTFE backseating
 - DN 80 - 200 (3 - 8 in.)
- Can accept flow in both directions
- Standard bonnet is suitable for installation in normal insulated systems
- Material on housing and bonnet are in low temperature steel according to requirements of the Pressure Equipment Directive and other international classification authorities
- Pressure range:
 - Standard version*
 - SVA-ST: 40 bar g (580 psi g)
- Temperature range:
 - Standard version*
 - 50/+150°C (-58/+302°F)
- Classification: DNV, LR, SAQ, CRN, BV etc. To get an updated list of certification on the products please contact your local Danfoss Sales Company

Additional features for high spec. version (SVA-HS)

- Low temperature version with extended bonnet for insulated low temperature applications.
- Can be used in chemical and petro-chemical applications.
- Stainless steel packing gland with special teflon low temperature spindle seal.
- Pressure range:
 - High spec. version*
 - SVA-HS: 40 bar g (580 psi g)
- Temperature range:
 - High spec. version*
 - 60/+150°C (-76/+302°F)
- Stainless steel bolts.

Design

Connections

Available with the following connections:

- Butt-weld DIN (2448)
- Butt-weld ANSI (B 36.10 Schedule 80),
- DN 6 - 40 (1/4 - 1 1/2 in.)
- Butt-weld ANSI (B 36.10 Schedule 40),
- DN 50 - 200 (2 - 8 in.)
- Socket Weld (ANSI B 16.11),
- DN 15 - DN 50 (1/2 - 2 in.)
- Outside pipe thread
- G 1/2 in. - G 7/8 in. (ISO 228/1)
- FPT Female Pipe Thread, NPT
(ANSI/ASME B 1.20.1),
- DN 15 - 32 (1/2 - 1 1/4 in.)

Housing

Made of special, cold resistant steel approved for low temperature operations.

Valve cone

The valve cone can be turned on the spindle, thus there will be no friction between the cone and the seat, when the valve is opened and closed. A teflon tightening ring provides perfect sealing at a minimum closing momentum.

Spindle

Made of polished stainless steel, ideal for O-ring sealing.

Packing gland

Standard version (SVA 6-10 and SVA-ST):

The standard packing gland ensures a perfect tightness in the range: -50/+150°C (-58/+302°F). The packing glands are equipped with a scraper ring to prevent penetration of dirt and ice into the packing gland.

High spec. version (SVA-HS):

This comprises a threaded bush equipped with teflon wear rings to prevent damage of the spindle surface. In addition, a scraper ring is mounted to prevent dirt and ice to penetrate into the packing gland. The sealing consists of conical shaped teflon rings supported by metal bushings and ensures a perfect tightness in the range: -60°C/+150°C (-76°F/+302°F).

Pressure Equipment Directive (PED)

SVA-ST and SVA-HS valves are approved accor-

ding to the European standard specified in the Pressure Equipment Directive and are CE marked.

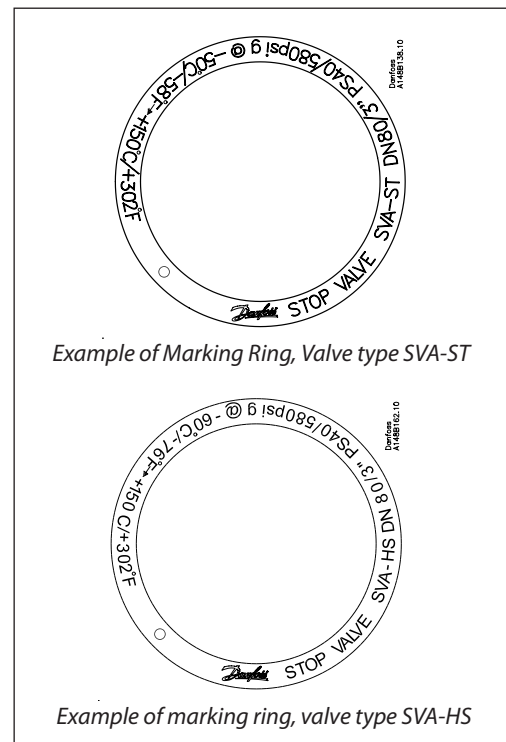
For further details / restrictions - see Installation Instruction.

Installation

It is recommended that the valves be installed in the direction of flow indicated by the arrow on the valve body. The valve can be installed in the opposite direction but this slightly reduces the k_v -value (C_v -value).

The valve is designed to withstand high internal pressure. 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 instructions for SVA.



Example of Marking Ring, Valve type SVA-ST

Example of marking ring, valve type SVA-HS

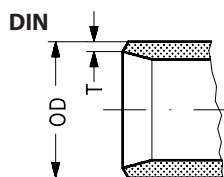


SVA			
Nominal bore	DN ≤ 25 mm (1 in.)	DN 32-80 mm (1 1/4 - 3 in.)	DN 100 - 200 mm (4-8 in.)
Classified for	Fluid group I		
Category	Article 3, paragraph 3	II	III

Technical data

- Refrigerants (SVA 6-10 and SVA-ST)
Applicable to all common non flammable refrigerants including R717 and non corrosive gases/liquids dependent on sealing material compatability. For further information please see installation instruction for SVA.
- Refrigerants (SVA-HS)
Applicable to all common refrigerants including flammable hydrocarbons and all non-corrosive gases/liquids. For further information please see installation instruction for SVA-HS.
- Temperature range
Standard version (ST):
-50/+150°C (-58/+302°F).
High spec. version (HS):
-60/+150°C (-76/+302°F).
- Pressure range
The valves are designed for max. working pressure 40 bar g (580 psi g), for both standard and low temperature versions. Valves for higher working pressure are available on request.

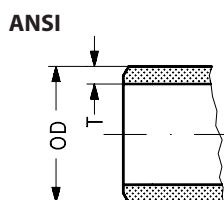
Connections - SVA-ST and HS



Butt-weld DIN (2448)

Size mm	Size in.	OD mm	T mm	OD in.	T in.			k _v -angle m ³ /h	k _v -straight m ³ /h	C _v -angle USgal/min	C _v -straight USgal/min
6	1/4	13.5	2.3	0.531	0.091			2.9	2.0	3.4	2.4
10	3/8	17.2	2.3	0.677	0.091			4.5	3.2	5.2	3.6
15	1/2	21.3	2.3	0.839	0.091			7.0	4.9	8.1	5.7
20	3/4	26.9	2.3	1.059	0.091			14.6	10.2	16.9	11.8
25	1	33.7	2.6	1.327	0.103			24.8	17.4	28.8	20.2
32	1 1/4	42.4	2.6	1.669	0.102			42.6	29.8	49.4	34.6
40	1 1/2	48.3	2.6	1.902	0.103			45.2	31.6	52.4	36.7
50	2	60.3	2.9	2.37	0.11			80	65	93	76
65	2 1/2	76.1	2.9	3	0.11			120	97	140	113
80	3	88.9	3.2	3.50	0.13			182	152	211	176
100	4	114.3	3.6	4.50	0.14			313	278	363	323
125	5	139.7	4.0	5.50	0.16			514	470	596	545
150	6	168.3	4.5	6.63	0.18			785	597	911	693
200	8	219.1	6.3	8.63	0.25			1168	1024	1355	1188

Size mm	Size in.	OD mm	T mm	OD in.	T in.			k _v -angle m ³ /h	k _v -straight m ³ /h	C _v -angle USgal/min	C _v -straight USgal/min
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Butt-weld ANSI (B 36.10 Schedule 80)

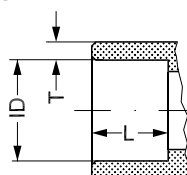
6	1/4	13.5	3.0	0.531	0.118			2.9	2.03	3.4	2.4
10	3/8	17.2	3.2	0.677	0.126			4.5	3.15	5.2	3.6
15	1/2	21.3	3.7	0.839	0.146			7.0	4.9	8.1	5.7
20	3/4	26.9	4.0	1.059	0.158			14.6	10.2	16.9	11.8
25	1	33.7	4.6	1.327	0.181			24.8	17.4	28.8	20.2
32	1 1/4	42.4	4.9	1.669	0.193			42.6	29.8	49.4	34.6
40	1 1/2	48.3	5.1	1.902	0.201			45.2	31.6	52.4	36.7

Butt-weld ANSI (B 36.10 Schedule 40)

50	2	60.3	3.9	2.37	0.15			80	65	93	76
65	2 1/2	73.0	5.2	2.87	0.20			120	97	140	113
80	3	88.9	5.5	3.50	0.22			182	152	211	176
100	4	114.3	6.0	4.50	0.24			313	278	363	323
125	5	141.3	6.6	5.56	0.26			514	470	596	545
150	6	168.3	7.1	6.63	0.28			785	597	911	693
200	8	219.1	8.2	8.63	0.32			1168	1024	1355	1188

Size mm	Size in.	ID mm	T mm	ID in.	T in.	L mm	L in.	k _v -angle m ³ /h	k _v -straight m ³ /h	C _v -angle USgal/min	C _v -straight USgal/min
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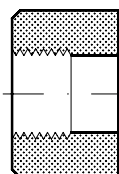


Socket welding ANSI (B 16.11)

15	1/2	21.8	6.0	0.858	0.235	10	0.39	7.0	4.9	8.1	5.7
20	3/4	27.2	4.6	1.071	0.181	13	0.51	10.0	7.0	11.9	8.1
25	1	33.9	7.2	1.335	0.284	13	0.51	24.8	17.4	28.8	20.2
32	1 1/4	42.7	6.1	1.743	0.240	13	0.51	42.6	29.8	49.4	34.6
40	1 1/2	48.8	6.6	1.921	0.260	13	0.51	45.2	31.6	52.4	36.7
50	2	61.2	6.2	2.41	0.24	16	0.63	80	65	93	76

Size mm	Size in.	Inside pipe tread						k _v -angle m ³ /h	k _v -straight m ³ /h	C _v -angle USgal/min	C _v -straight USgal/min
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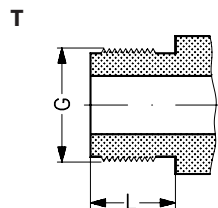
FPT



FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

15	1/2	(1/2 x 14 NPT)						8.5	6.0	9.9	7.0
20	3/4	(3/4 x 14 NPT)						10	7.0	11.6	8.1
25	1	(1 x 11.5 NPT)						32	22.4	37.1	26.0
32	1 1/4	(1 1/4 x 11.5 NPT)						36	25.2	41.8	29.3

Connections - SVA 6 and SVA-ST 15

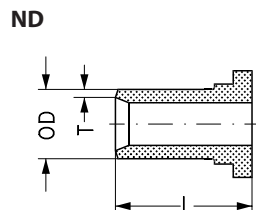


Size		Outside pipe thread	L mm	L in.	K _v -angle m ³ /h	K _v -str. m ³ /h	C _v -angle USgal/min	C _v -str USgal/min
mm	in.							

T outside pipe thread, (ISO 228/1)

6	1/4	G 1/2	16	0.63	2.5	2.0	2.9	2.0
15	3/8-1/2	G 7/8	19	0.76	7.0	4.9	8.1	5.7

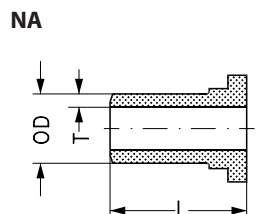
Nipples for T outside pipe thread, (ISO 228/1)



Size mm	Size in.	OD mm	T mm	OD in.	T in.	L mm	L in.	Inside pipe thread			
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ND welding nipples, (DIN 2448)

6	1/4	13.5	2.3	0.531	0.091	60	2.36	G 1/2			
10	3/8	17.2	2.3	0.677	0.091	50	1.97	G 7/8			
15	1/2	21.3	2.3	0.852	0.091	50	1.97	G 7/8			



Size mm	Size in.	OD mm	T mm	OD in.	T in.	L mm	L in.	Inside pipe thread			
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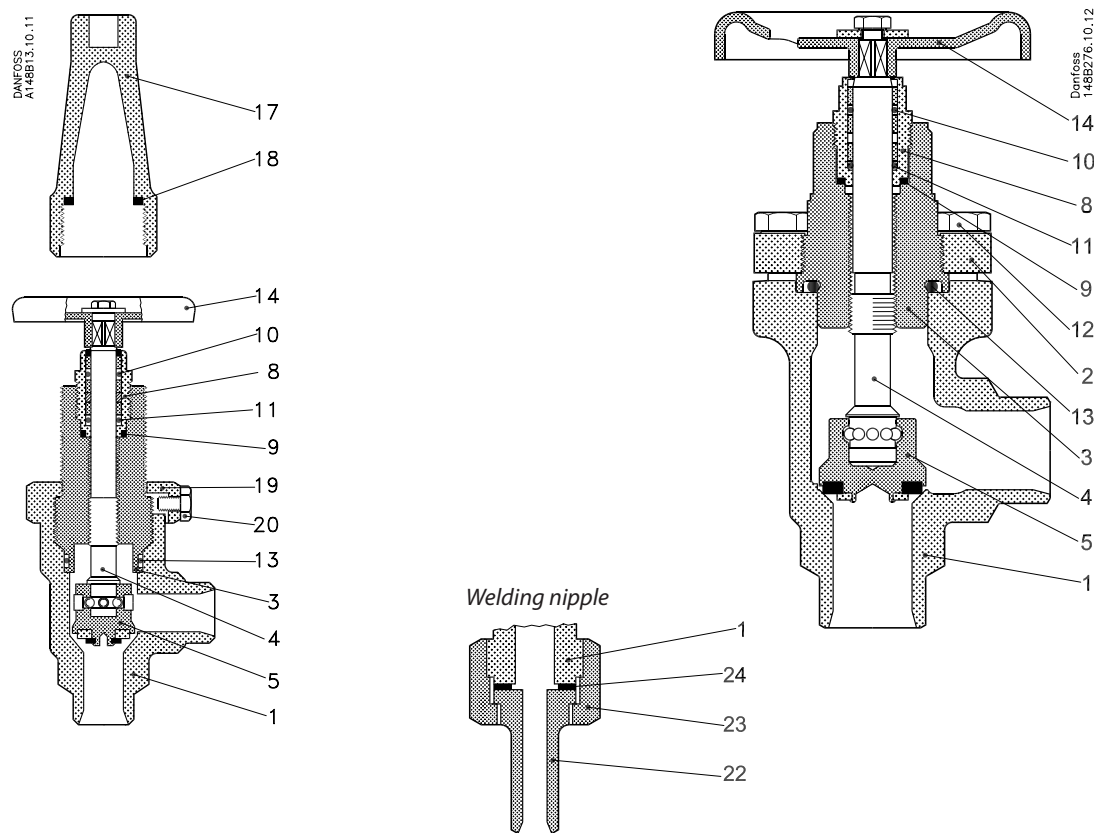
NA welding nipples, ANSI (B 36.10 Schedule 80)

6	1/4	13.5	3.0	0.531	0.118	60	2.36	G 1/2			
10	3/8	17.2	3.2	0.677	0.126	50	1.97	G 7/8			
15	1/2	21.3	3.7	0.852	0.198	50	1.97	G 7/8			

Material specification

SVA-ST 6-10 (1/4 - 3/8 in.)

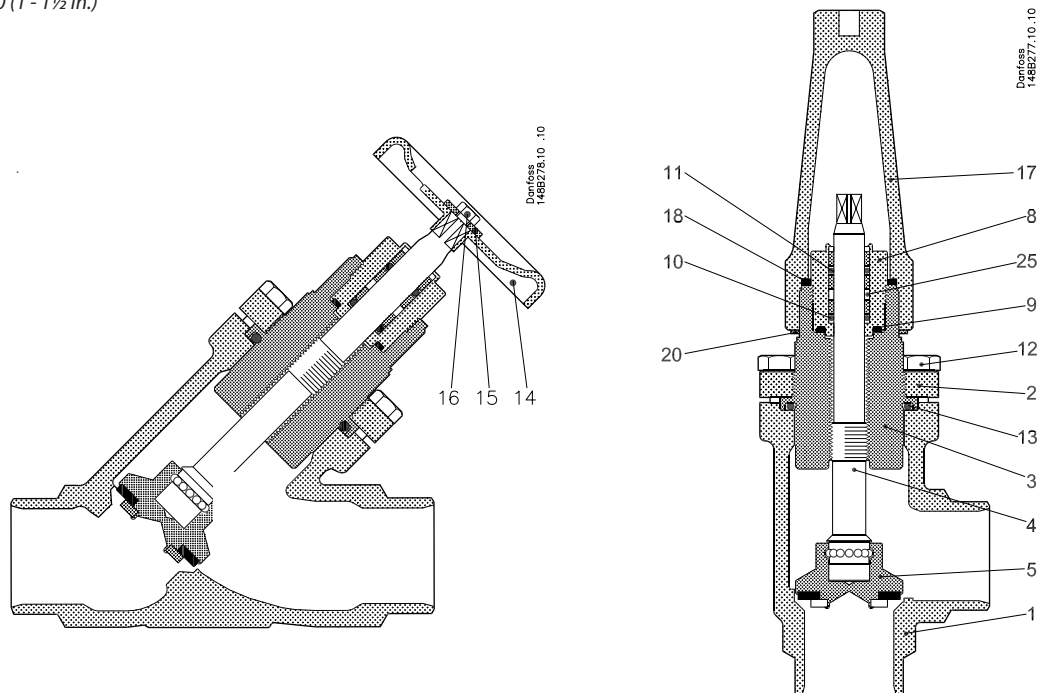
SVA-ST 15-20 (1/2 - 3/4 in.)



No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 P285QH+QT, 10222-4		LCC, A352 LF2, A350
2	Bonnet, Flange	Steel	G20Mn5QT, 10213-3 P285QH+QT, 10222-4		LCC, A352 LF2, A350
3	Bonnet, Insert	Steel	11SMn30 10087	Type 2 R 683/9	AISI 1213
4	Spindle	Stainless steel	X8CrNiS18-9 10088	Type 17 683/13	AISI 303
5	Cone	Steel	11SMn30 10087	Type 2 R 683/9	AISI 1213
8	Packing gland	Stainless steel	X8CrNiS18-9 10088	Type 17 683/13	AISI 303
9	Packing washer	Aluminium			
10	O-ring	Cloroprene (Neoprene)			
11	O-ring	Cloroprene (Neoprene)			
12	Bolts	Steel	Quality 8.8	Quality 8.8	Type 1, A325
13	O-ring	Cloroprene (Neoprene)			
14	Handwheel	Steel			
17	Cap	Aluminium			
18	Gasket f. cap	Nylon			
19	Locking nut	Steel			
20	Screw	Steel			
22	Welding nipple	Steel	S235JRG2 10025	Fe260B, 630	Grade C, A 283
23	Nut	Steel	11SMn30 10087	Type 2 R 683/9	AISI 1213
24	Packing washer	Non-asbestos			

Material specification

SVA-ST 25-40 (1 - 1½ in.)

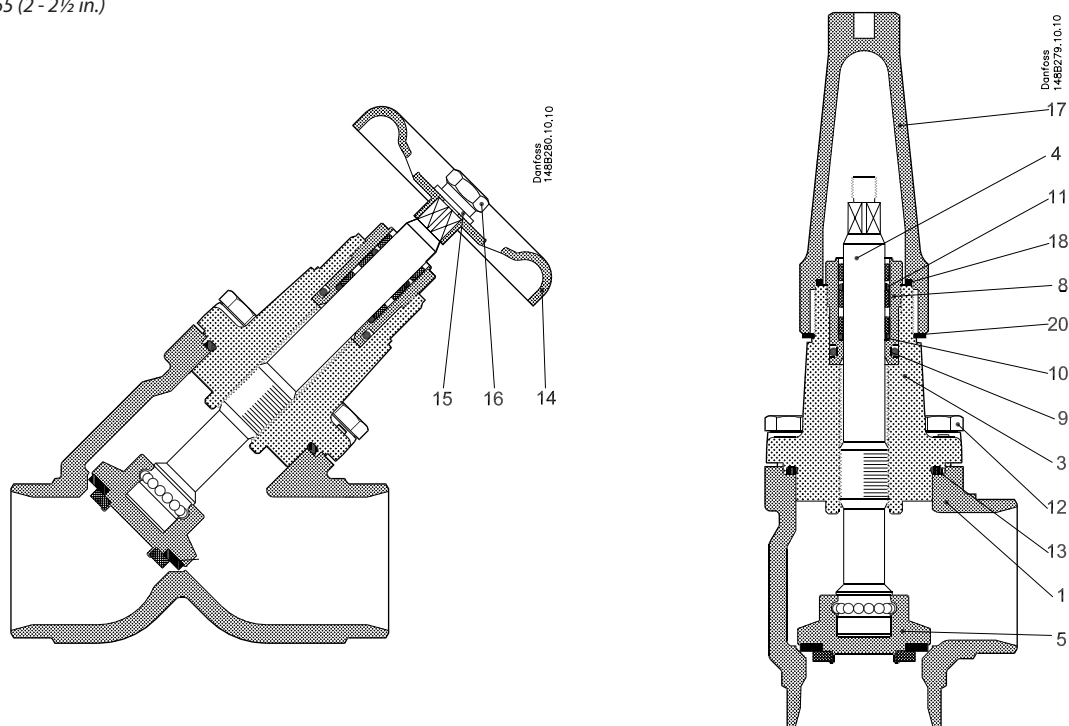


SVA-ST

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
2	Bonnet, flange	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
3	Bonnet, Insert	Steel	11SMn30 10087	Type 2 R 683/9	AISI 1213
4	Spindle	Stainless steel	X8CrNiS18-9 10088	Type 17 683/13	AISI 303
5	Cone Cone seal	Steel Teflon (PTFE)	11SMn30 10087	Type 2, R 683/9	AISI 1213
8	Packing gland	Stainless steel	X8CrNiS18-9 10088	Type 17 683/13	AISI 303
9	O-ring	Cloroprene (Neoprene)			
10-11	O-ring	Cloroprene (Neoprene)			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	O-ring	Cloroprene (Neoprene)			
14	Hand wheel	Steel			
15	Washer	Stainless steel (A2)			
16	Screw	Stainless steel (A2)			
17	Cap	Aluminium			
18	Gasket for cap	Nylon			
20	Identification ring	Stainless steel			

Material specification

SVA-ST 50-65 (2 - 2½ in.)

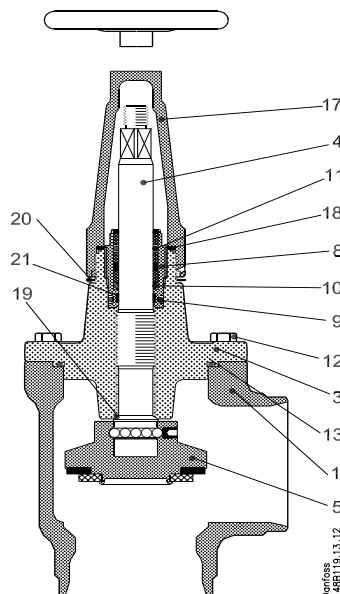
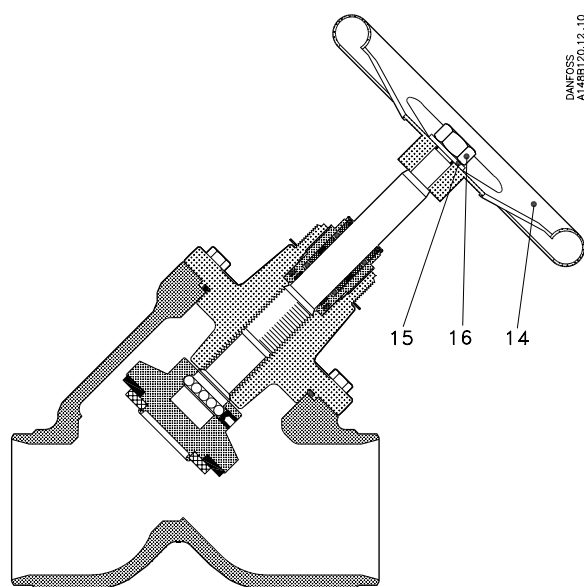


SVA-ST

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 P285QH+QT, 10222-4		LCC, A352 LF2, A350
3	Valve bonnet	Steel	G20Mn5QT, 10213-3 P285QH+QT, 10222-4		LCC, A352 LF2, A350
4	Spindle	Stainless steel	X8CrNiS18-9 10088	Type 17 R 683/13	AISI 303
5	Cone seal	Steel Teflon (PTFE)	115Mn30 10087	Type 2, R 683/13	AISI 1213
8	Packing gland	Stainless steel	X8CrNiS18-9 10088	Type 17 R 683/13	AISI 303
9	O-ring	Cloroprene (Neoprene)			
10	O-ring	Cloroprene (Neoprene)			
11	O-ring	Cloroprene (Neoprene)			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	O-ring	Cloroprene (Neoprene)			
14	Hand wheel	Steel			
15	Washer	Stainless steel (A2)			
16	Nut	Stainless steel (A2)			
17	Cap	Aluminium			
18	Gasket for cap	Nylon (PA 6)			
20	Identification ring	Stainless steel			

Material specification

SVA-ST 80 - 200 (3 - 8 in.)

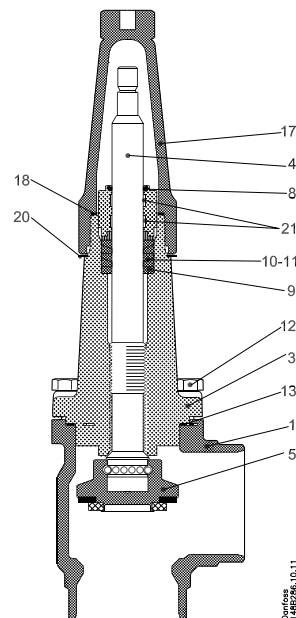
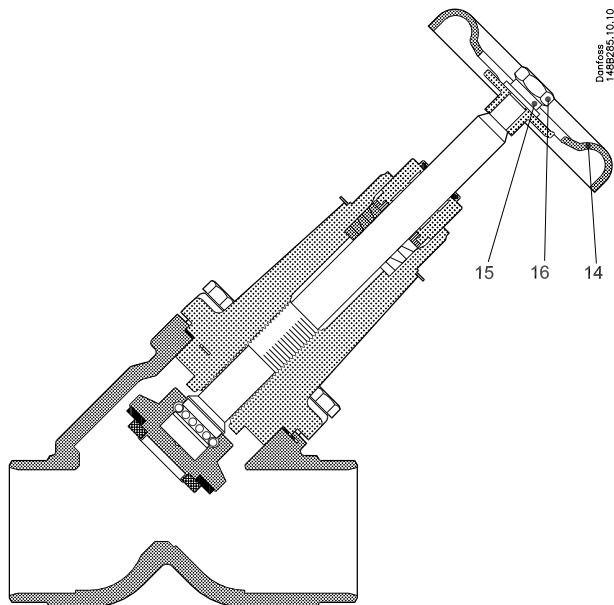


SVA-ST

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT 10213-3		LCC A352
3	Valve bonnet	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
4	Spindle	Stainless steel	X5CrNi18-10 10088	Type 11, R 683/13	AISI 304, A276
5	Cone seal	Steel Teflon (PTFE)	11SMn30 10087	Type 2, R 683/9	AISI 1213
8	Packing gland	Stainless steel	X8CrNiS18-9 10088	Type 17 R 683/13	AISI 303
9	O-ring	Cloroprene (Neoprene)			
10	O-ring	Cloroprene (Neoprene)			
11	O-ring	Cloroprene (Neoprene)			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	O-ring	Cloroprene (Neoprene)			
14	Hand wheel	Steel			
15	Washer	Stainless steel			
16	Nut	Stainless steel			
17	Cap	Aluminium			
18	Gasket for cap	Nylon (PA 6)			
19	Soft backseat	Teflon (PTFE)			
20	Identification ring	Stainless steel			
21	Wear ring	Teflon (PTFE)			

Material specification

SVA-HS 15 - 65 (½ - 2½ in.)

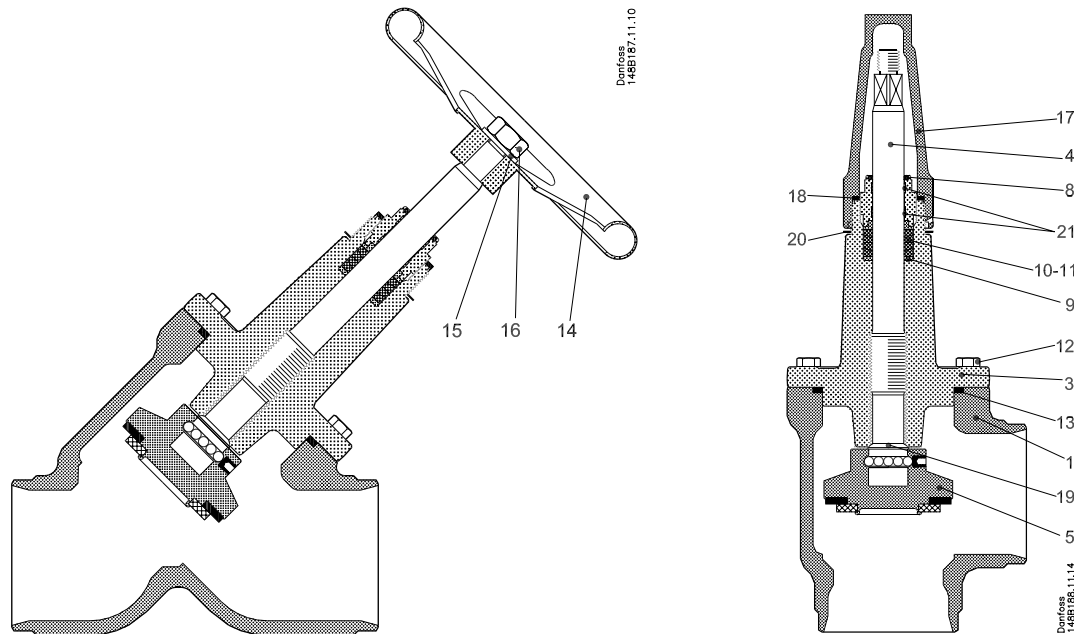


SVA-HS

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
3	Valve bonnet	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
4	Spindle	Stainless steel	X2CrNiMo17-12-2 10088		AISI 316
5	Cone Cone seal	Steel PTFE	11SMn30 10087	Type 2, R 683/9	AISI 1213
8	Packing gland	Stainless steel	X8CrNiS18-9 10088	Type 17 R 683/13	AISI 303
9	Washer	Cast iron			
10-11	Seal ring	PTFE			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	Gasket	Fiber, Non-asbestos			
14	Hand wheel	Steel			
15	Washer	Stainless steel			
16	Screw/Nut	Stainless steel			
17	Cap	Aluminium			
18	Gasket for cap	Nylon (PA6)			
20	Identification ring	Stainless steel			
21	Wear ring	PTFE (Teflon)			

Material specification

SVA-HS 80 - 200 (3 - 8 in.)

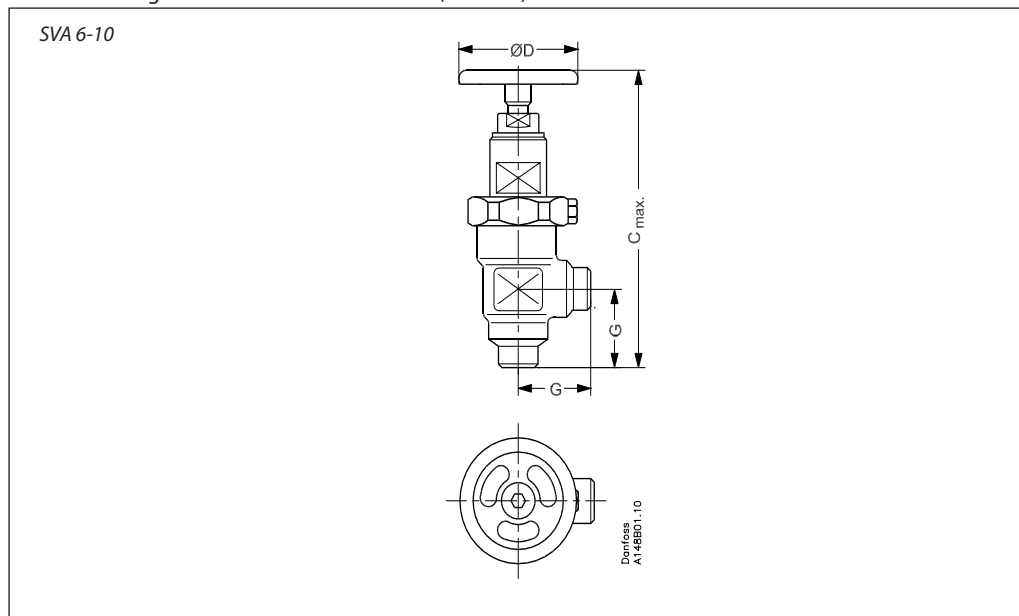


SVA-HS

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT 10213-3		LCC A352
3	Valve bonnet	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
4	Spindle	Stainless steel	X2CrNiMo17-12-2 10088		AISI 316
5	Cone Cone seal	Steel PTFE	11SMn30 10087	Type 2, R 683/9	AISI 1213
8	Packing gland	Stainless steel	X8CrNiS18-9 10088	Type 17 R 683/13	AISI 303
9	Washer	Cast iron			
10-11	Seal ring	PTFE			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	Gasket	Fiber, Non-asbestos			
14	Hand wheel	Steel			
15	Washer	Stainless steel			
16	Screw/Nut	Stainless steel			
17	Cap	Aluminium			
18	Gasket for cap	Nylon (PA6)			
19	Internal soft backseating	PTFE			
20	Identification ring	Stainless steel			
21	Wear ring	PTFE			

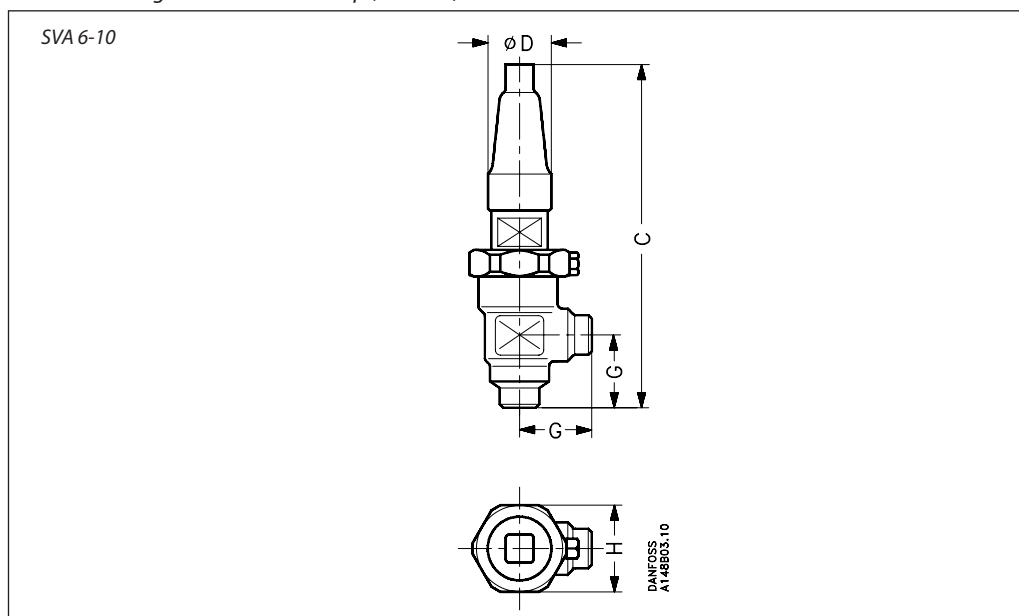
Dimensions and weights

SVA 6-10 in angle execution with handwheel (SVA 121)



Valve size			C _{max.}	G	ØD	□H	Weight
SVA 6	mm		128	30	50		0.7 kg
	in.		5.04	1.18	1.97		
SVA 10	mm		173	45	60	60	1.4 kg
	in.		6.81	1.77	2.36	2.36	

SVA 6-10 in angle execution with cap (SVA 123)

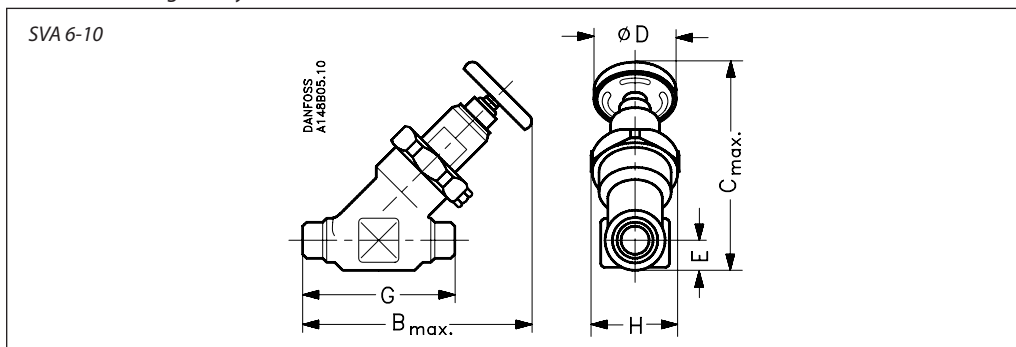


Valve size			C	G	ØD	□H	Weight
SVA 6	mm		139	30	30	48	0.8 kg
	in.		5.47	1.18	1.18	1.89	
SVA 10	mm		182	45	38	60	1.4 kg
	in.		7.17	1.77	1.50	2.36	

Specified weights are approximate values only.

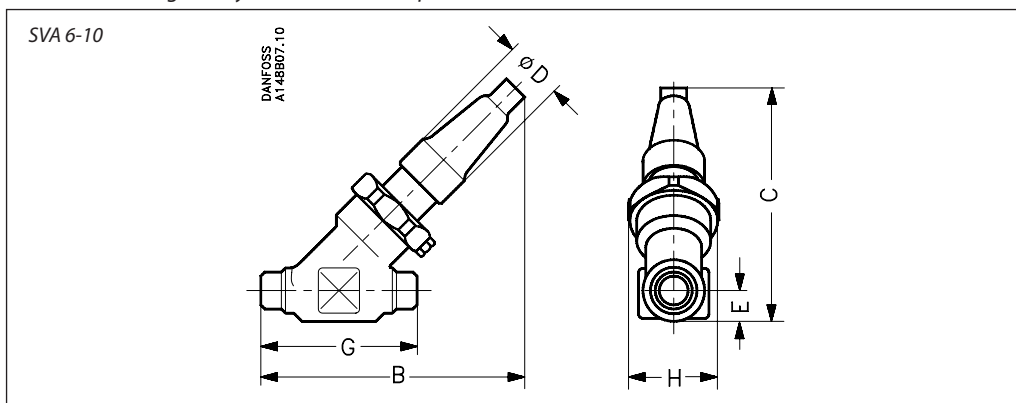
Dimensions and weights

SVA 6 - 10 in straight-way execution with handwheel (SVA 221)



Valve size		C _{max.}	B _{max.}	E	G	ØD	□H	Weight
SVA 6	mm in.	110 4.33	120 4.72	13 0.49	70 2.76	50 1.97	48 1.89	0.7 kg
SVA 10	mm in.	145 5.71	160 6.30	20 0.79	120 4.72	60 2.36	60 2.36	2.0 kg

SVA 6 - 10 in straight-way execution with cap (SVA 223)

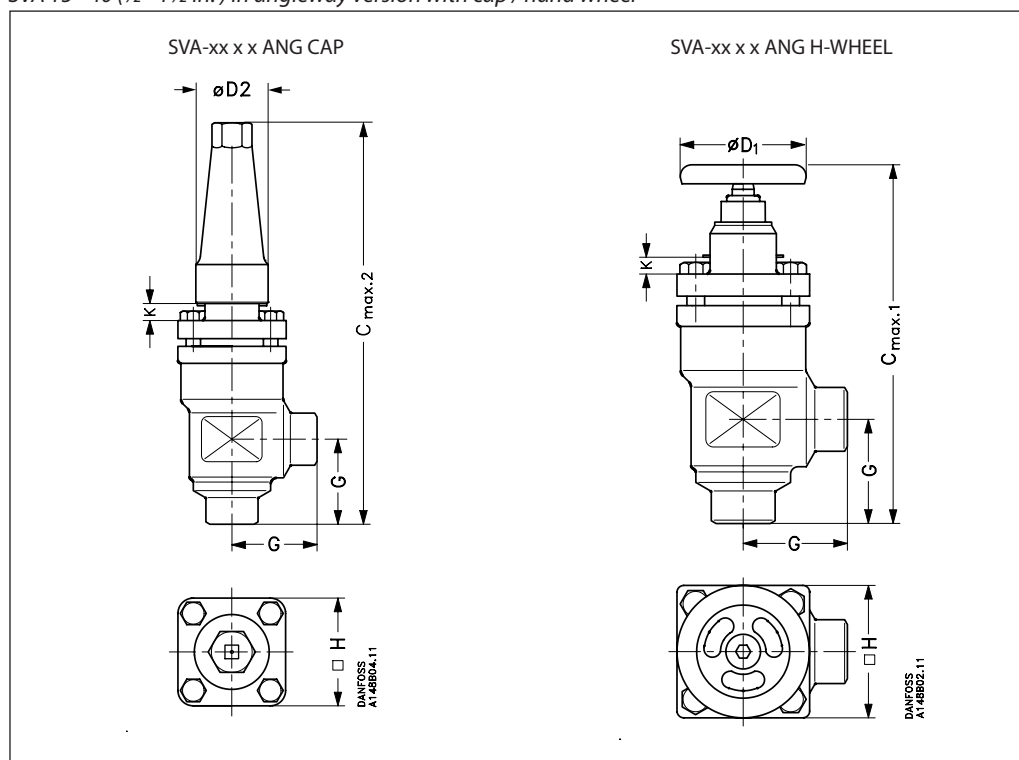


Valve size		C	B	E	G	ØD	□H	Weight
SVA 6	mm in.	110 4.33	120 4.72	13 0.49	70 2.76	30 1.16	48 1.89	0.8 kg
SVA 10	mm in.	145 5.71	155 6.10	20 0.79	120 4.72	38 1.50	60 2.36	2.0 kg

Specified weights are approximate values only.

Dimensions and weights

SVA 15 - 40 (½ - 1½ in.) in angleway version with cap / hand wheel



Valve size	K	C _{max.1}	C _{max.2}	G	ØD ₁	ØD ₂	□H	Weight
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SVA-ST

SVA 15 - 20	mm	4	178	189	45	60	38	60	1.4 kg
SVA (½ - ¾)	in.	0.16	7.00	7.44	1.77	2.36	1.5	2.36	3.1 lb
SVA 25 - 40	mm	12	234	268	55	80	50	70	2.4 kg
SVA (1 - 1½)	in.	0.47	9.21	10.55	2.17	3.15	1.97	2.76	5.3 lb

SVA-ST, Socket weld

SVA 32 - 40	mm	12	241	275	62	80	50	70	2.9 kg
SVA (1¼ - 1½)	in.	0.47	9.49	10.83	2.44	3.15	1.97	2.76	6.4 lb

SVA-HS

SVA 15 - 20	mm	63	237	248	45	60	38	60	1.4 kg
SVA (½ - ¾)	in.	2.48	9.33	9.76	1.77	2.36	1.5	2.36	3.1 lb
SVA 25 - 40	mm	74	296	330	55	80	50	70	2.4 kg
SVA (1 - 1½)	in.	2.91	11.65	12.99	2.17	3.15	1.97	2.76	5.3 lb

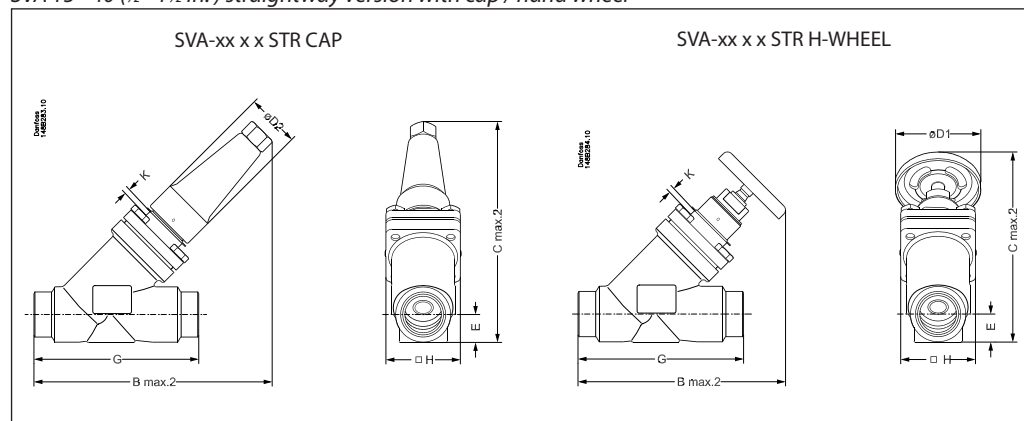
SVA-HS, Socket weld

SVA 32 - 40	mm	74	303	337	62	80	50	70	2.9 kg
SVA (1¼ - 1½)	in.	2.91	11.93	13.27	2.44	3.15	1.97	2.76	6.4 lb

Specified weights are approximate values only.

Dimensions and weights

SVA 15 - 40 (½ - 1½ in.) straightway version with cap / hand wheel



Valve size	K	C _{max.1}	C _{max.2}	B _{max.1}	B _{max.2}	E	G	∅D ₁	∅D ₂	H	Weight
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SVA-ST

SVA 15 - 20	mm	4	146	141	160	156	20	120	60	38	60	2.0 kg
SVA (½ - ¾)	in.	0.16	5.74	5.55	6.30	6.14	0.79	4.72	2.36	1.50	2.36	4.4 lb
SVA 25 - 40	mm	12	199	208	212	222	26	155	80	50	70	3.0 kg
SVA (1 - 1½)	in.	0.47	7.83	8.19	8.35	8.74	1.02	6.10	3.15	1.97	2.76	6.6 lb

SVA-ST, Socket weld

SVA 32	mm	12	200	209	212	222	27.4	155	80	50	70	3.0 kg
SVA (1¼)	in.	0.47	7.87	8.23	8.35	8.74	1.08	6.10	3.15	1.97	2.76	6.6 lb
SVA 40	mm	12	204	213	212	222	31.0	155	80	50	70	3.0 kg
SVA (1½)	in.	0.47	8.03	8.39	8.35	8.74	1.22	6.10	3.15	1.97	2.76	6.6 lb

SVA-HS

SVA 15 - 20	mm	63	188	184	202	198	20	120	60	38	60	2.0 kg
SVA (½ - ¾)	in.	2.48	7.40	7.24	7.95	7.80	0.79	4.72	2.36	1.50	2.36	4.4 lb
SVA 25 - 40	mm	74	243	252	256	265	26	155	80	50	70	3.0 kg
SVA (1 - 1½)	in.	2.91	9.57	9.92	10.08	10.43	1.02	6.10	3.15	1.97	2.76	6.6 lb

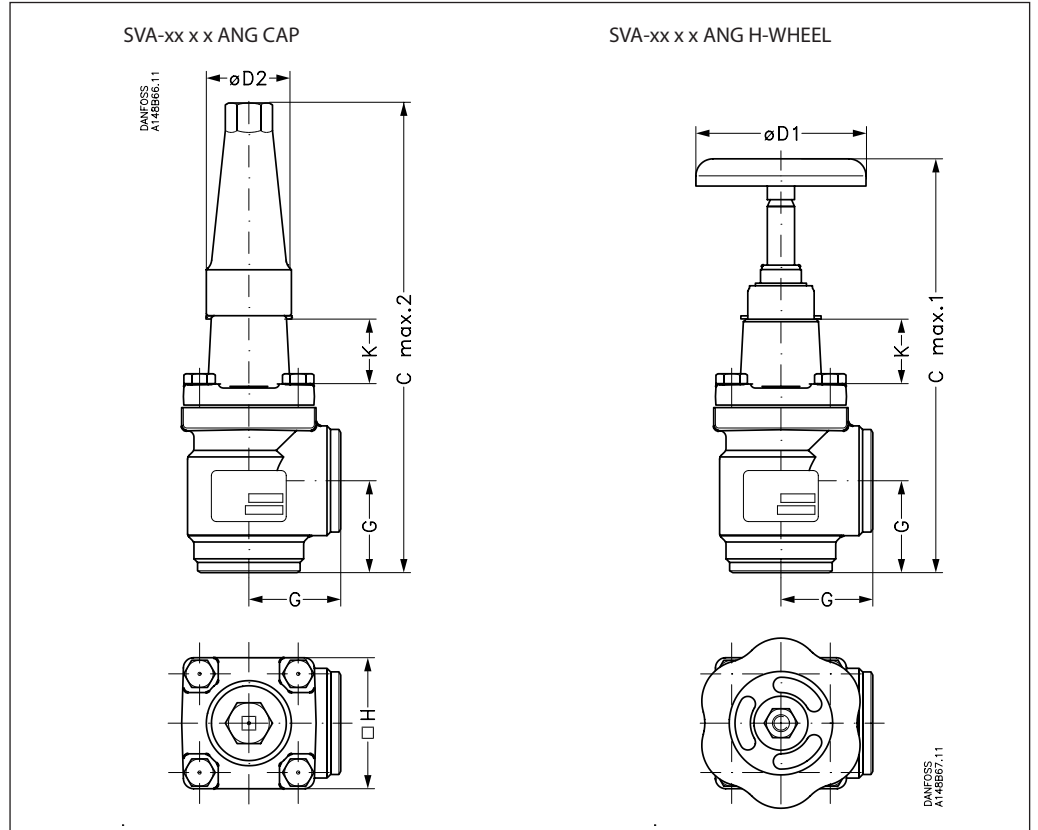
SVA-HS, Socket weld

SVA 32	mm	74	244	253	256	265	27.4	155	80	50	70	3.0 kg
SVA (1¼)	in.	2.91	9.61	9.96	10.08	10.43	1.08	6.10	3.15	1.97	2.76	6.6 lb
SVA 40	mm	74	248	257	256	265	31.0	155	80	50	70	3.0 kg
SVA (1½)	in.	2.91	9.76	10.12	10.08	10.43	1.22	6.10	3.15	1.97	2.76	6.6 lb

Specified weights are approximate values only.

Dimensions and weights

SVA 50 - 65 (2 - 2½ in.) in angleway version with cap / hand wheel



Valve size		K	C _{max.1}	C _{max.2}	G	∅D ₁	∅D ₂	∏H	Weight
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SVA-ST

SVA 50	mm	35	249	280	60	100	50	77	3.2 kg
SVA (2)	in.	1.38	9.80	11.02	2.36	3.94	1.97	3.03	7.1 lb
SVA 65	mm	40	280	305	70	100	50	90	4.8 kg
SVA (2½)	in.	1.57	11.02	12.01	2.76	3.94	1.97	3.54	10.6 lb

SVA-ST, Socket weld

SVA 50	mm	35	254	285	65	100	50	77	4.1 kg
SVA (2)	in.	1.38	10.00	11.22	2.56	3.94	1.97	3.03	9.0 lb

SVA-HS

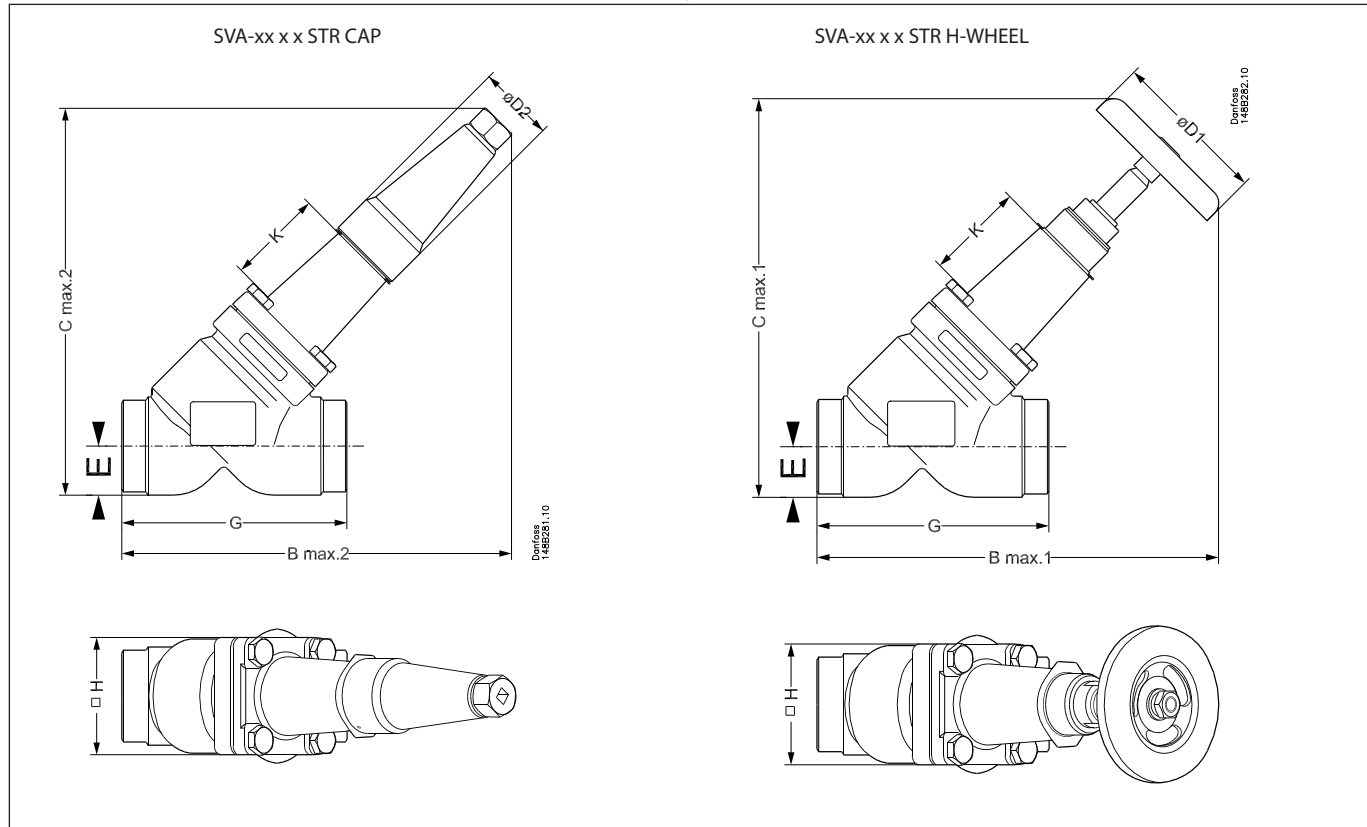
SVA 50	mm	70	284	315	60	100	50	77	3.2 kg
SVA (2)	in.	2.76	11.18	12.40	2.36	3.94	1.97	3.03	7.1 lb
SVA 65	mm	70	310	335	70	100	50	90	4.8 kg
SVA (2½)	in.	2.76	12.20	13.19	2.76	3.94	1.97	3.54	10.6 lb

SVA-HS, Socket weld

SVA 50	mm	70	289	320	65	100	50	77	4.1 kg
SVA (2)	in.	2.76	11.38	12.60	2.56	3.94	1.97	3.03	9.0 lb

Specified weights are approximate values only.

Dimensions and weights SVA 50 - 65 (2 - 2½ in.) in straightway version with cap / hand wheel



Valve size		K	B _{max.1}	B _{max.2}	C _{max.1}	C _{max.2}	E	G	ØD ₁	ØD ₂	□H	Weight
SVA-ST												
SVA 50	mm	35	234	234	232	232	32	148	100	50	77	4.2 kg
SVA (2)	in.	1.38	9.21	9.21	9.13	9.13	1.26	5.83	3.94	1.97	3.03	9.3 lb
SVA 65	mm	40	262	258	262	258	40	176	100	50	90	6.3 kg
SVA (2½)	in.	1.57	10.31	10.16	10.31	10.16	1.57	6.93	3.94	1.97	3.54	13.9 lb
SVA-ST, Socket weld												
SVA 50	mm	35	241	241	236	236	37	162	100	50	77	5.1 kg
SVA (2)	in.	1.38	9.49	9.49	9.29	9.29	1.46	6.38	3.94	1.97	3.03	11.2 lb
SVA-HS												
SVA 50	mm	70	259	259	257	257	32	148	100	50	77	4.2 kg
SVA (2)	in.	2.76	10.20	10.20	10.12	10.12	1.26	5.83	3.94	1.97	3.03	9.3 lb
SVA 65	mm	70	284	280	284	280	40	176	100	50	90	6.3 kg
SVA (2½)	in.	2.76	11.18	11.02	11.18	11.02	1.57	6.93	3.94	1.97	3.54	13.9 lb
SVA-HS, Socket weld												
SVA 50	mm	70	266	266	261	261	37	62	100	50	77	5.1 kg
SVA (2)	in.	2.76	10.47	10.47	10.28	10.28	1.26	6.38	3.94	1.97	3.03	11.2 lb

Specified weights are approximate values only.

Ordering

Please note that the type codes only serve to identify the valves, some of which may not form part of the standard product range. For further information please contact your local Danfoss Sales Company.

Type codes

Valve type	SVA	Stop valve	Available connections			
			A/D	SOC	FPT	T
Nominal size in mm						
(valve size measured on the connection diameter)	6	DN 6 (1/4)	x			x
	10	DN 10 (3/8)	x			x
	15	DN 15 (1/2)	x	x	x	
	20	DN 20 (3/4)	x	x	x	
	25	DN 25 (1)	x	x	x	
	32	DN 32 (1 1/4)	x	x	x	
	40	DN 40 (1 1/2)	x	x		
	50	DN 50 (2)	x	x		
	65	DN 65 (2 1/2)	x			
	80	DN 80 (3)	x			
	100	DN 100 (4)	x			
	125	DN 125 (5)	x			
	150	DN 150 (6)	x			
200	DN 200 (8)	x				
Connections	A D SOC FPT T	Butt-weld connection: ANSI B 36.10 schedule 80, DN 15 - 40 (1/2 - 1 1/2 in.) Butt-weld connection: ANSI B 36.10 schedule 40, DN 50 - 200 (2 - 8 in.) Butt-weld connection: DIN 2448 Socket weld: ANSI B 16.11 Female Pipe Thread NPT: ANSI/ASME B 1.20.1 Outside threaded connections ISO 228/1 Pipe thread				
Valve housing	ANG STR	Angle flow Straight flow				
Other equipment	H-WHEEL CAP	Hand wheel Cap				

Important!

Where products need to be certified according to specific certification societies or where higher pressures are required, the relevant information should be included at the time of order.

