



Technical brochure

Industrial Refrigeration Stop Valves SVA, SVA-ST, SVA-HS & SVA-SS



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.
For CO₂ applications the SVA-S and SVA-L stop valves have to be used (SVA-S and SVA-L valves have a max. working pressure of 50/52 bar). For further information please see the technical brochure DKRCI.PD.KD1.A.
- Optional accessories:
 - Heavy duty industrial hand wheel for frequent operation
 - Cap for infrequent operation
 - Lock washers for the stop valves subjected to high vibrations/pulsations
- 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
- Housing and bonnet material for SVA-ST and HS are in low temperature steel according to requirements of the Pressure Equipment Directive and other international classification authorities
- SVA-SS housing is made of special cold resistant stainless steel approved for low temperature operations.
- Stainless steel bolts.
- Maximum allowable working pressure and temperature range

Standard applications

SVA-ST	40 bar (580 psi) at -50°C/+150°C (-58°F/+302°F)
SVA-HS	40 bar (580 psi) at -60°C/+150°C (-76°F/+302°F)
SVA-SS (DN 15-65)	52 bar (754 psi) at -60°C/+50°C (-76°F/+122°F)
SVA-SS (DN 80-125)	50 bar (725 psi) at -60°C/+50°C (-76°F/+122°F)

For SVA-SS see the relation between PS and temperature for PS > 40 bar in the curve on page 3.

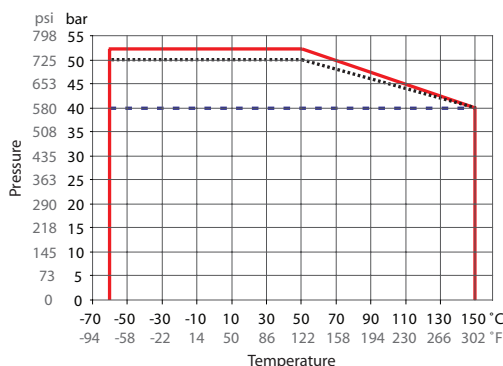
- Classification: DNV, LR, SAQ, CRN, BV etc.
To get an updated list of certification on the products please contact your local Danfoss Sales Company

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Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Pressure and temperature range



- SVA-SS DN15-DN65
- SVA-SS DN80 - DN125
- ■ ■ ■ SVA-HS and SVA-ST (standard)

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.
- Temperature range:
High spec. version
-60/+150°C (-76/+302°F)

Design

Connections

Available with the following connections:

- Butt-weld DIN (EN 10220)
- 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 (SVA-ST, HS) or stainless steel (SVA-SS) 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.

Stainless steel version (SVA-SS):

The stainless steel packing gland comprises a spring loaded seal packing gland which ensures a perfect tightness in the range:
-60/+150°C (-76/+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 according to the European standard specified in the Pressure Equipment Directive and are CE marked.

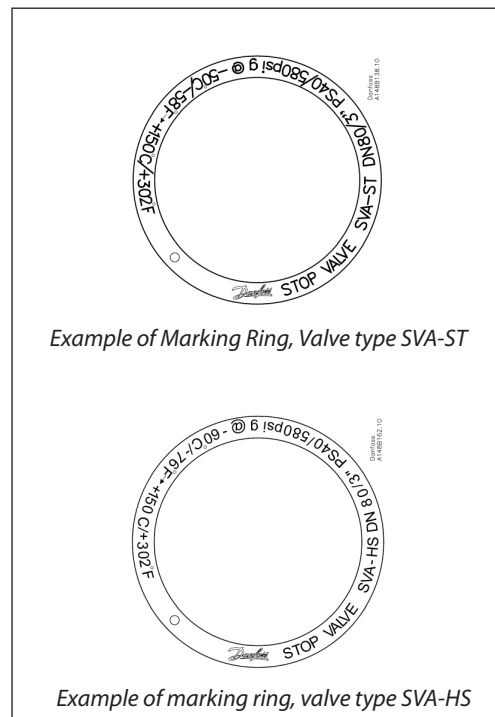
For further details / restrictions - see Installation Instruction.

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.



Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS



SVA			
Nominal bore	DN≤ 25 mm (1 in.)	DN32-80 mm (1¼ - 3 in.)	DN100 - 200 mm (4-8 in.)
Classified for	Fluid group I		
Category	Article 3, paragraph 3	II	III

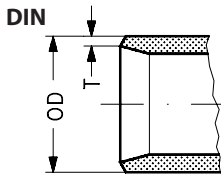
Technical data

- 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.
For CO₂ applications the SVA-S and SVA-L stop valves have to be used. For further information please see the technical brochure DKRCI.PD.KD1.A.
- 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. and stainless steel version (HS and SS):
-60/+150°C (-76/+302°F).
- Pressure range
The valves are designed for max. working pressure 40 bar g (580 psi g). Valves for higher working pressure are available on request.
SVA-SS are designed for max. working pressure 52 bar (754 psi g).

Connections
SVA-ST, SS and HS

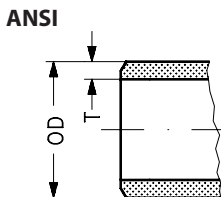
Size mm	Size in.	OD mm	T mm	OD in.	T in.			k _v -angle m ³ /h	k _v -straight m ³ /h	C _v -angle USgal/min	C _v -straight USgal/min
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Butt-weld DIN (EN 10220)

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	1¼	42.4	2.6	1.669	0.102			42.6	29.8	49.4	34.6
40	1½	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	2½	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	1¼	42.4	4.9	1.669	0.193			42.6	29.8	49.4	34.6
40	1½	48.3	5.1	1.902	0.201			45.2	31.6	52.4	36.7

Butt-weld ANSI (B 36.10 Schedule 40)

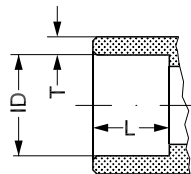
50	2	60.3	3.9	2.37	0.15			80	65	93	76
65	2½	73.0	5.2	2.87	0.20			120	97	140	113
80	3	88.9	5.5	3.50	0.22			182	152	211	176
100	4	114.3	6.0	4.50	0.24			313	278	363	323
125	5	141.3	6.6	5.56	0.26			514	470	596	545
150	6	168.3	7.1	6.63	0.28			785	597	911	693
200	8	219.1	8.2	8.63	0.32			1168	1024	1355	1188

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Connections SVA-ST, SS and HS

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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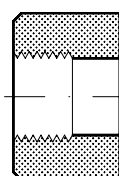


Socket welding ANSI (B 16.11)

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

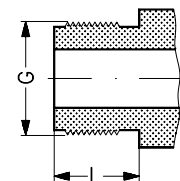


FPT inside pipe thread, NPT (ANSI/ASME B 1.20.1)

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

T



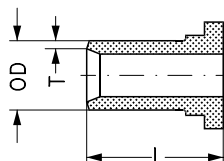
Size mm	Size in.	Outside pipe thread	L mm	L in.	K_v -angle m ³ /h	K_v -str. m ³ /h	C_v -angle USgal/min	C_v -str USgal/min
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T outside pipe thread, (ISO 228/1)

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)

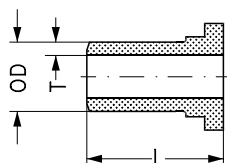
ND



ND welding nipples, (DIN 2448)

Size mm	Size in.	OD mm	T mm	OD in.	T in.	L mm	L in.	Inside pipe thread
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

NA



NA welding nipples, ANSI (B 36.10 Schedule 80)

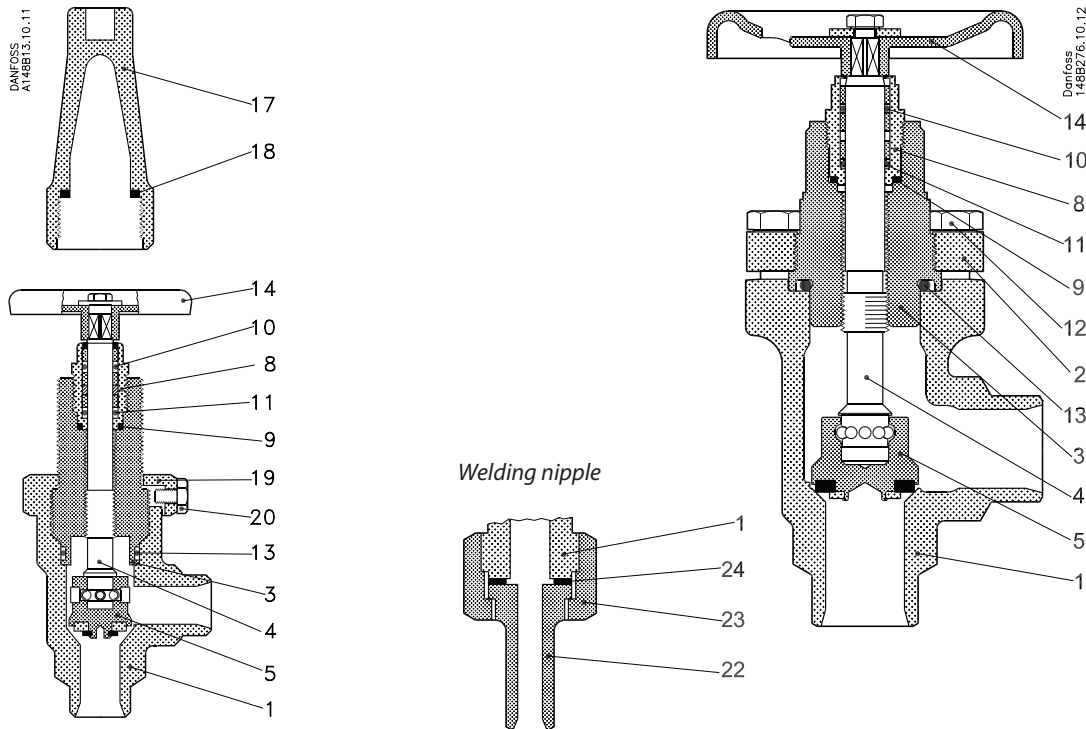
Size mm	Size in.	OD mm	T mm	OD in.	T in.	L mm	L in.	Inside pipe thread
6	1/4	13.5	3.0	0.531	0.118	60	2.36	G 1/2
10	3/8	17.2	3.2	0.677	0.126	50	1.97	G 7/8
15	1/2	21.3	3.7	0.852	0.198	50	1.97	G 7/8

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Material specification

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

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

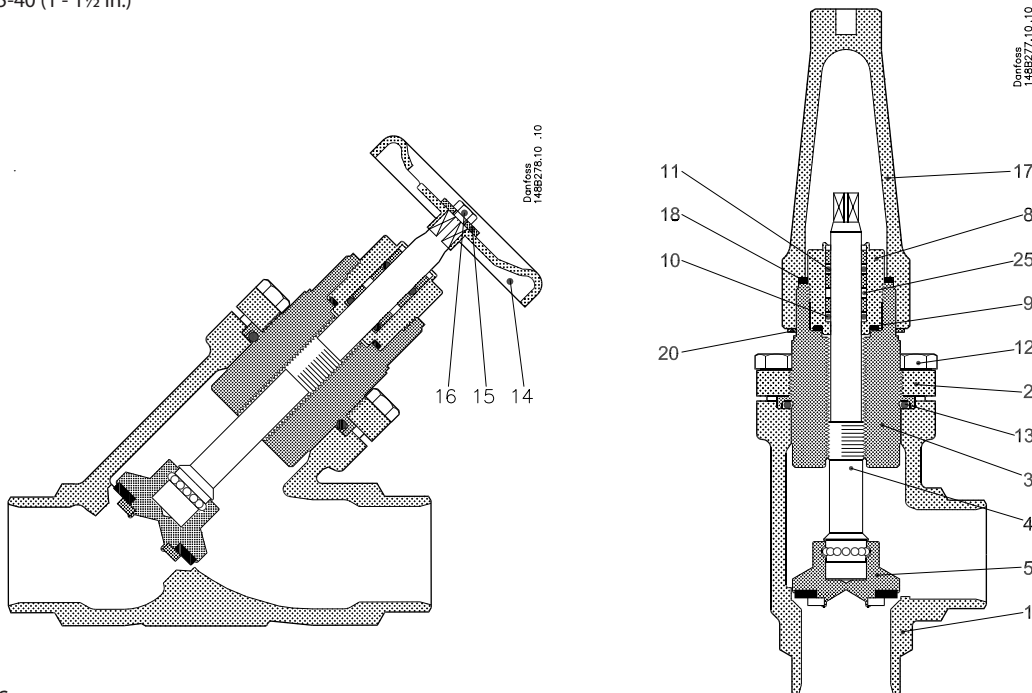


No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
		Stainless steel (SVA-SS)	XSCrNi18-10, 10088		AISI 304
2	Bonnet, Flange	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4 ----- P275NL, 10028-3		LCC, A352 ----- LF2, A350
		Stainless steel (SVA-SS)	XSCrNi18-10, 10088		AISI 304
		Steel	115Mn30 10087	Type 2 R 683/9	AISI 1213
3	Bonnet, Insert	Stainless steel (SVA-SS)			
		Steel	X8CrNi18-9 10088 DIN 17440 (SVA-SS only)	Type 17 683/13	AISI 303
5	Cone	Steel	115Mn30 10087	Type 2 R 683/9	AISI 1213
8	Packing gland	Stainless steel	X8CrNi18-9 10088	Type 17 683/13	AISI 303
9	Packing washer	Aluminium			
10	O-ring	Cloroprene (Neoprene)			
11	O-ring (SVA-ST)	Cloroprene (Neoprene)			
	Spring loaded Teflon ring (SVA-SS)	PTFE			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
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	115Mn30 10087	Type 2 R 683/9	AISI 1213
24	Packing washer	Non-asbestos			

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Material specification

SVA-ST, SS 25-40 (1 - 1½ in.)



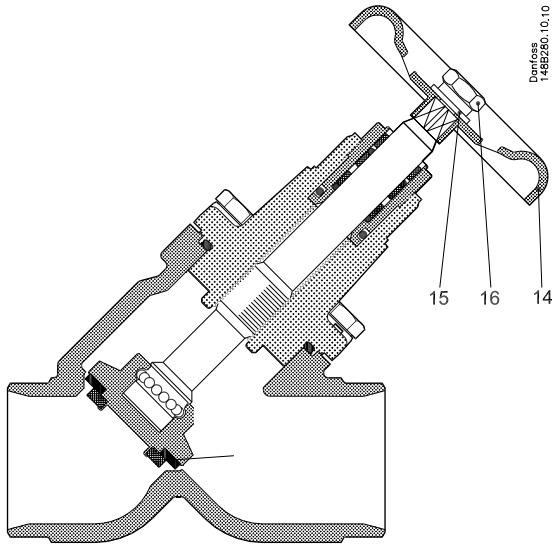
SVA-ST, SS

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
		Stainless steel (SVA-SS)	XSCrNi18-10, 10088		AISI 304
2	Bonnet, flange	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4 ----- P275NL, 10028-3		LCC, A352 ----- LF2, A350
		Stainless steel (SVA-SS)	XSCrNi18-10, 10088		AISI 304
		Steel	115Mn30 10087	Type 2 R 683/9	AISI 1213
3	Bonnet, Insert	Steel	115Mn30 10087	Type 2 R 683/9	AISI 1213
		Stainless steel (SVA-SS)			
4	Spindle	Stainless steel	X8CrNiS18-9 10088 DIN 17440 (SVA-SS only)	Type 17 683/13	AISI 303
5	Cone Cone seal	Steel Teflon (PTFE)	115Mn30 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	O-ring (SVA-ST)	Cloroprene (Neoprene)			
	Spring loaded Teflon ring (SVA-SS)	PTFE			
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			

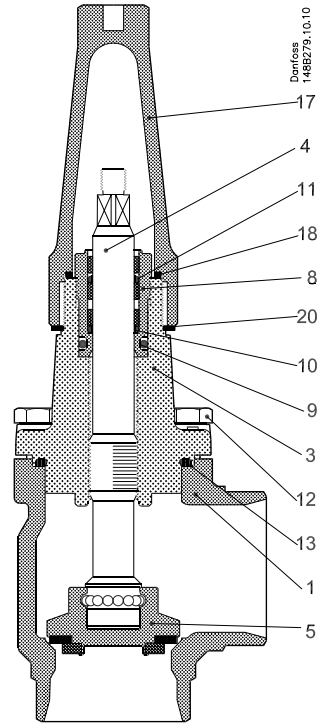
Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Material specification

SVA-ST, SS 50-65 (2 - 2½ in.)



SVA-ST,SS 50-65 (2-2½ in.) and SVA-SS 80-125 (3 - 5 in.)



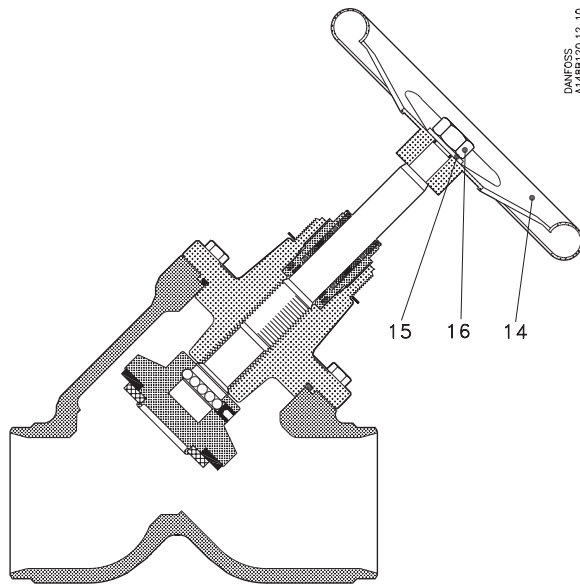
SVA-ST, SS

No.	Part	Material	EN	ISO	ASTM
1	Housing	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
		Stainless steel (SVA-SS 50-65) Stainless steel (SVA-SS 80-125)	X5CrNi18-10, 10088 GX5CrNi 18-10, 10213-4		AISI 304
3	Valve bonnet	Steel	G20Mn5QT, 10213-3 ----- P285QH+QT, 10222-4		LCC, A352 ----- LF2, A350
		Stainless steel (SVA-SS 50-65) Stainless steel (SVA SS 80-125)	X5CrNi18-10, 10088 GX5CrNiMo 19-11, 10213-4		AISI 304
4	Spindle	Stainless steel	X8CrNiS18-9 10088 DIN 17440 (SVA-SS only)	Type 17 R 683/13	AISI 303
5	Cone Cone seal	Steel Teflon (PTFE)	11SMn30 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 (SVA-ST)	Cloroprene (Neoprene)			
	Spring loaded Teflon ring (SVA-SS)	PTFE			
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			

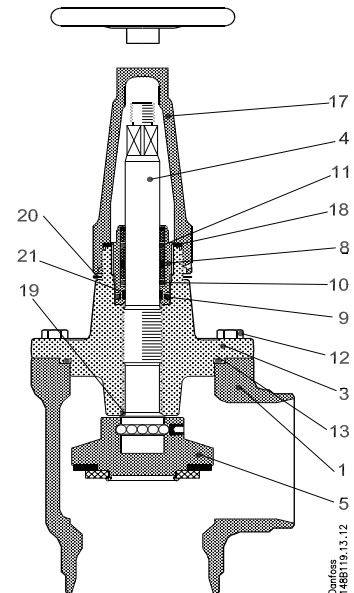
Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Material specification

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



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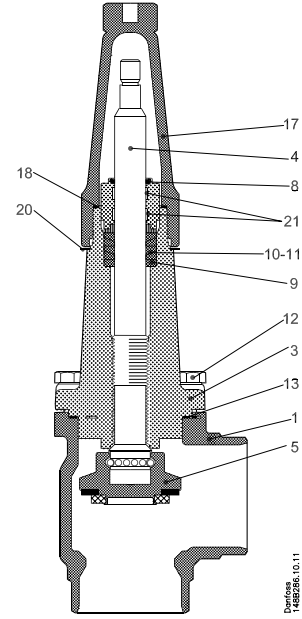
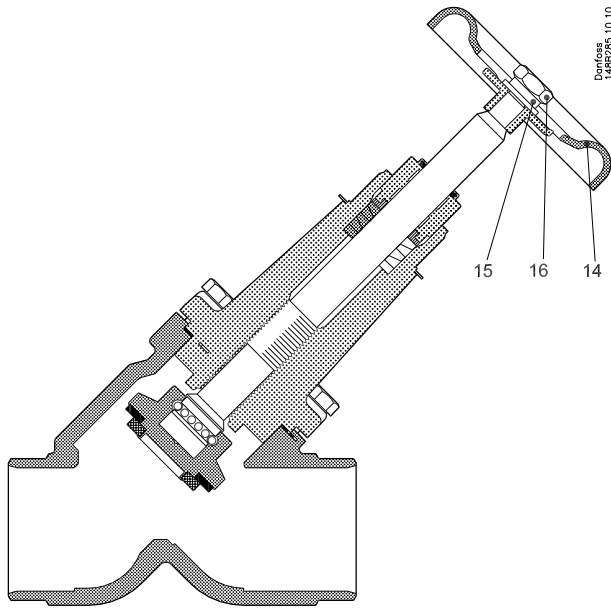
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SVA-ST

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 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 (1/2 - 2 1/2 in.)

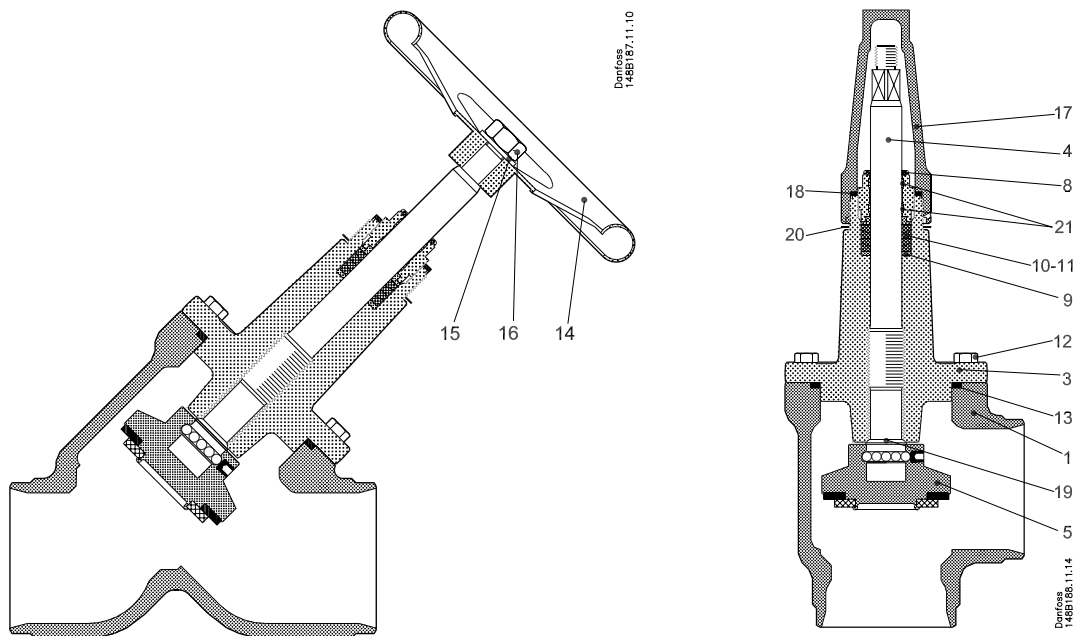


SVA-HS

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.)



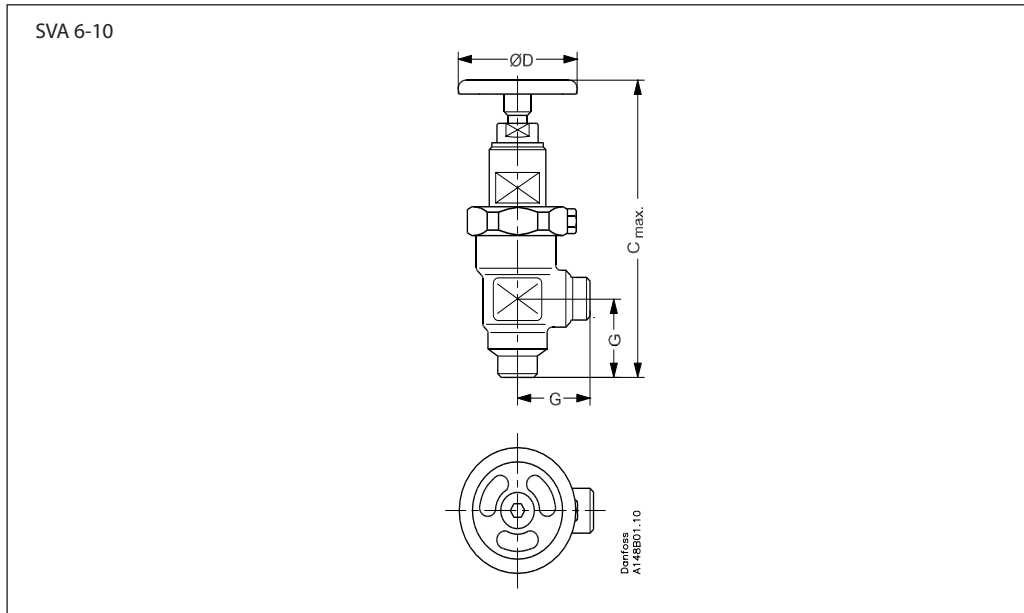
SVA-HS

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 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			

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

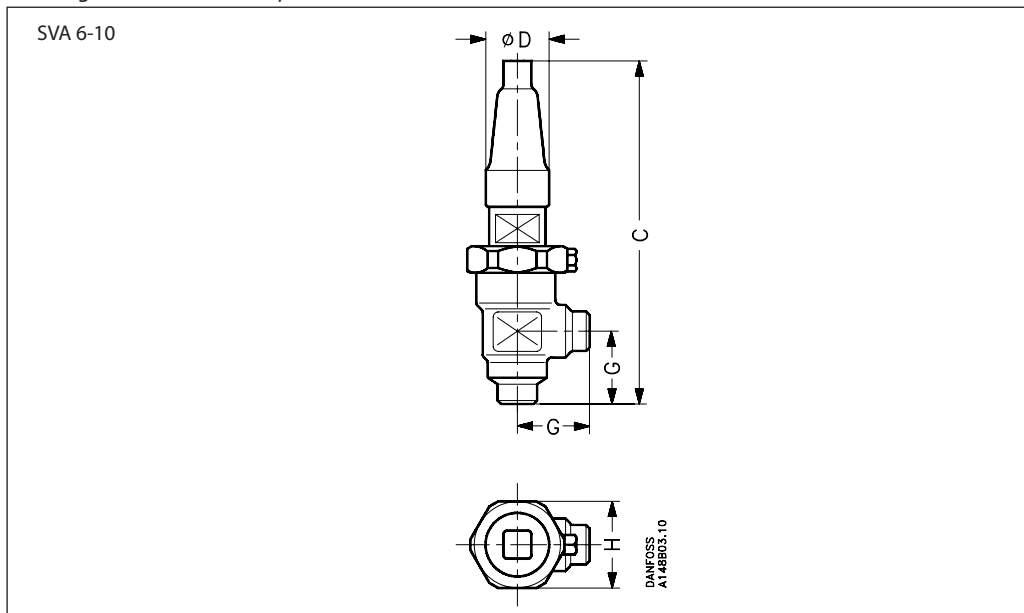
Dimensions and weights

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



Valve size		C_{max}	G	$\varnothing D$	$\square H$	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)
or in angle execution with cap and extended bonnet (SVA 126)*



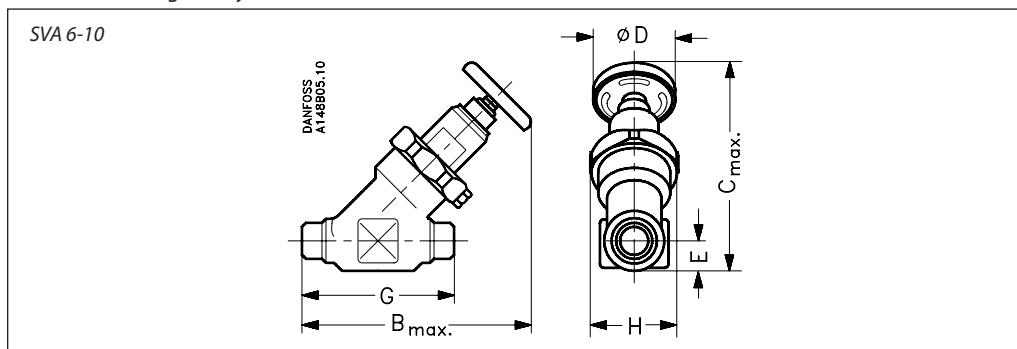
Valve size		C	G	$\varnothing D$	$\square H$	Weight
SVA 6	mm	139	30	30	48	0.8 kg
	in.	5.47	1.18	1.18	1.89	
SVA 10	mm	182	45	38	60	1.4 kg
	in.	7.17	1.77	1.50	2.36	

Specified weights are approximate values only.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

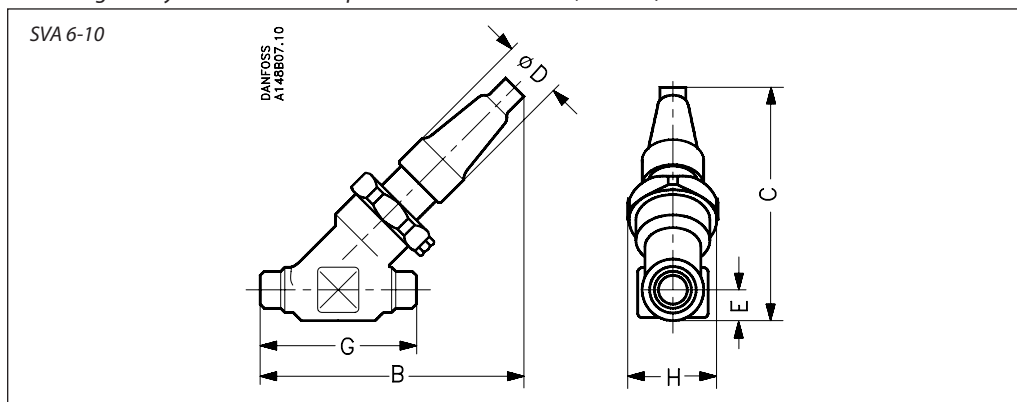
Dimensions and weights

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)
or in straight-way execution with cap and extended bonnet (SVA 226)



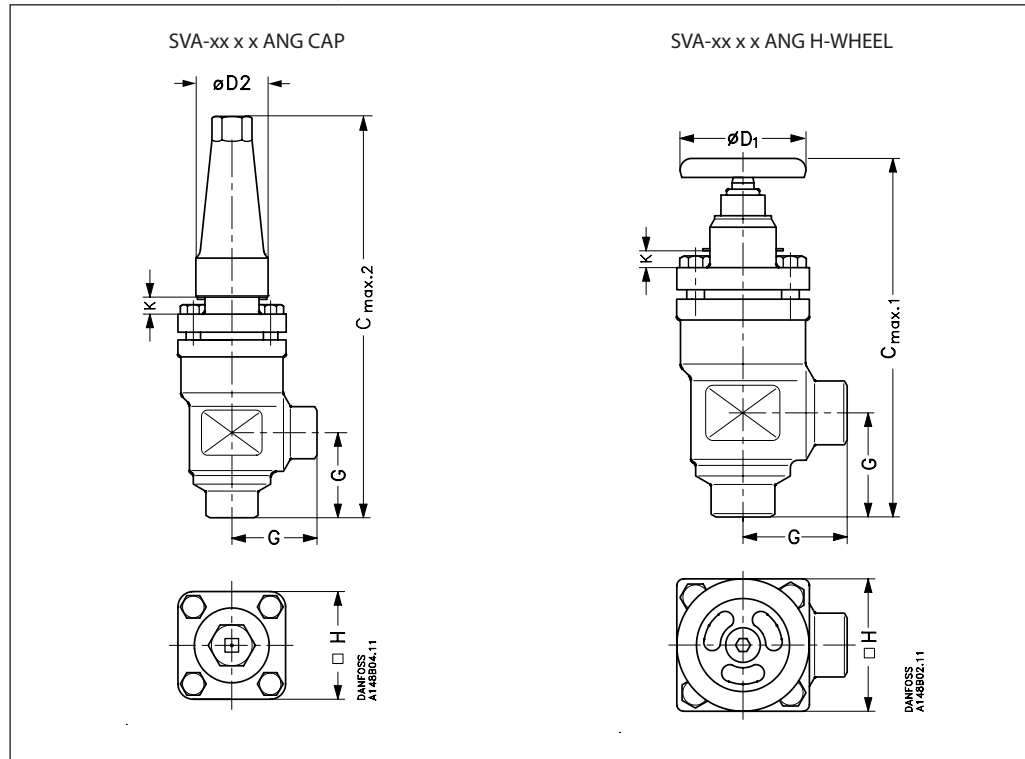
Valve size		C	B	E	G	ØD	□H	Weight
SVA 6	mm in.	110 4.33	120 4.72	13 0.49	70 2.76	30 1.16	48 1.89	0.8 kg
SVA 10	mm in.	145 5.71	155 6.10	20 0.79	120 4.72	38 1.50	60 2.36	2.0 kg

Specified weights are approximate values only.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Dimensions and weights

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



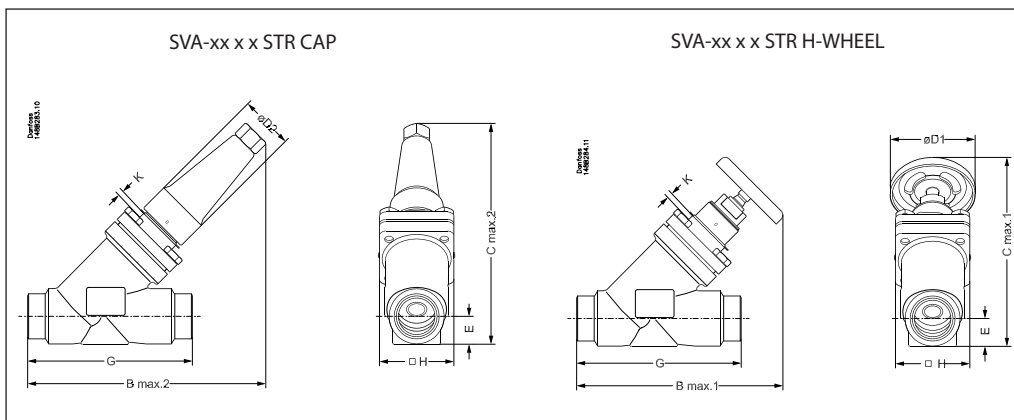
Valve size		K	C _{max.1}	C _{max.2}	G	ØD ₁	ØD ₂	□H	Weight
SVA-ST, SS									
SVA 15 - 20	mm	4	178	189	45	60	38	60	1.4 kg
SVA (½ - ¾)	in.	0.16	7.00	7.44	1.77	2.36	1.5	2.36	3.1 lb
SVA 25 - 40	mm	12	234	268	55	80	50	70	2.4 kg
SVA (1 - 1½)	in.	0.47	9.21	10.55	2.17	3.15	1.97	2.76	5.3 lb
SVA-ST, Socket weld									
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.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

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	ØD ₁	ØD ₂	H	Weight
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SVA-ST, SS

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

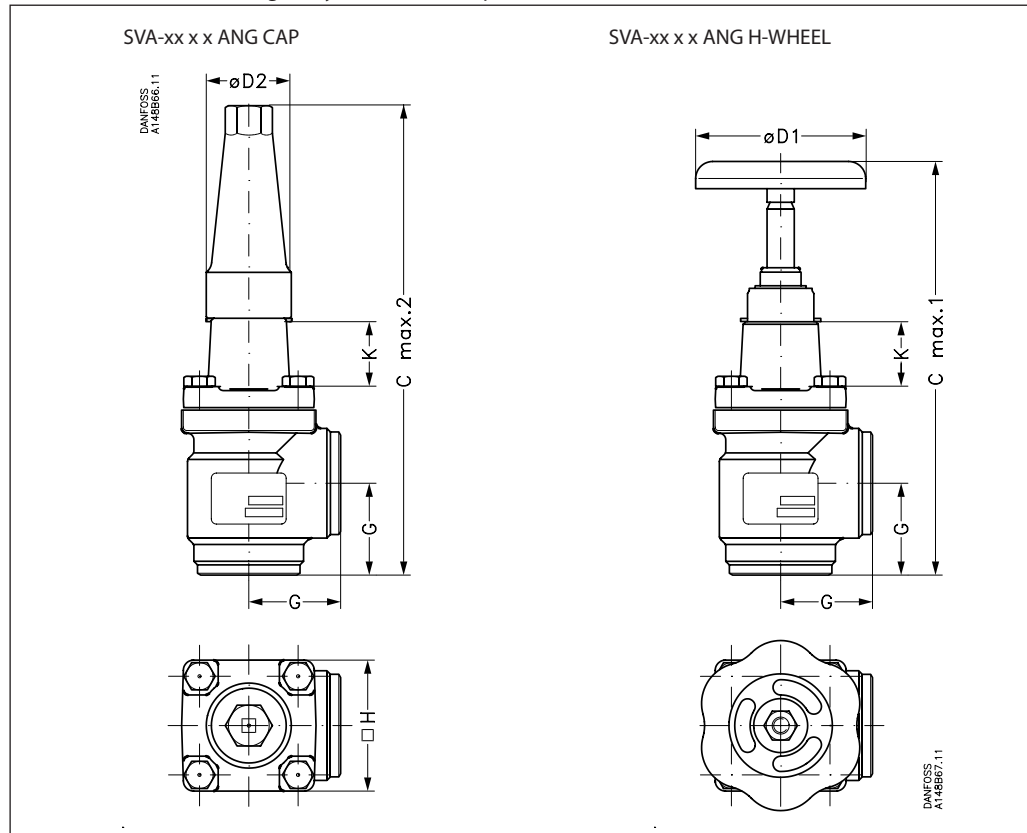
SVA 32	mm	74	244	253	256	265	27.4	155	80	50	70	3.0 kg
SVA (1¼)	in.	2.91	9.61	9.96	10.08	10.43	1.08	6.10	3.15	1.97	2.76	6.6 lb
SVA 40	mm	74	248	257	256	265	31.0	155	80	50	70	3.0 kg
SVA (1½)	in.	2.91	9.76	10.12	10.08	10.43	1.22	6.10	3.15	1.97	2.76	6.6 lb

Specified weights are approximate values only.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

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	ØD ₁	ØD ₂	□H	Weight
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SVA-ST, SS

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

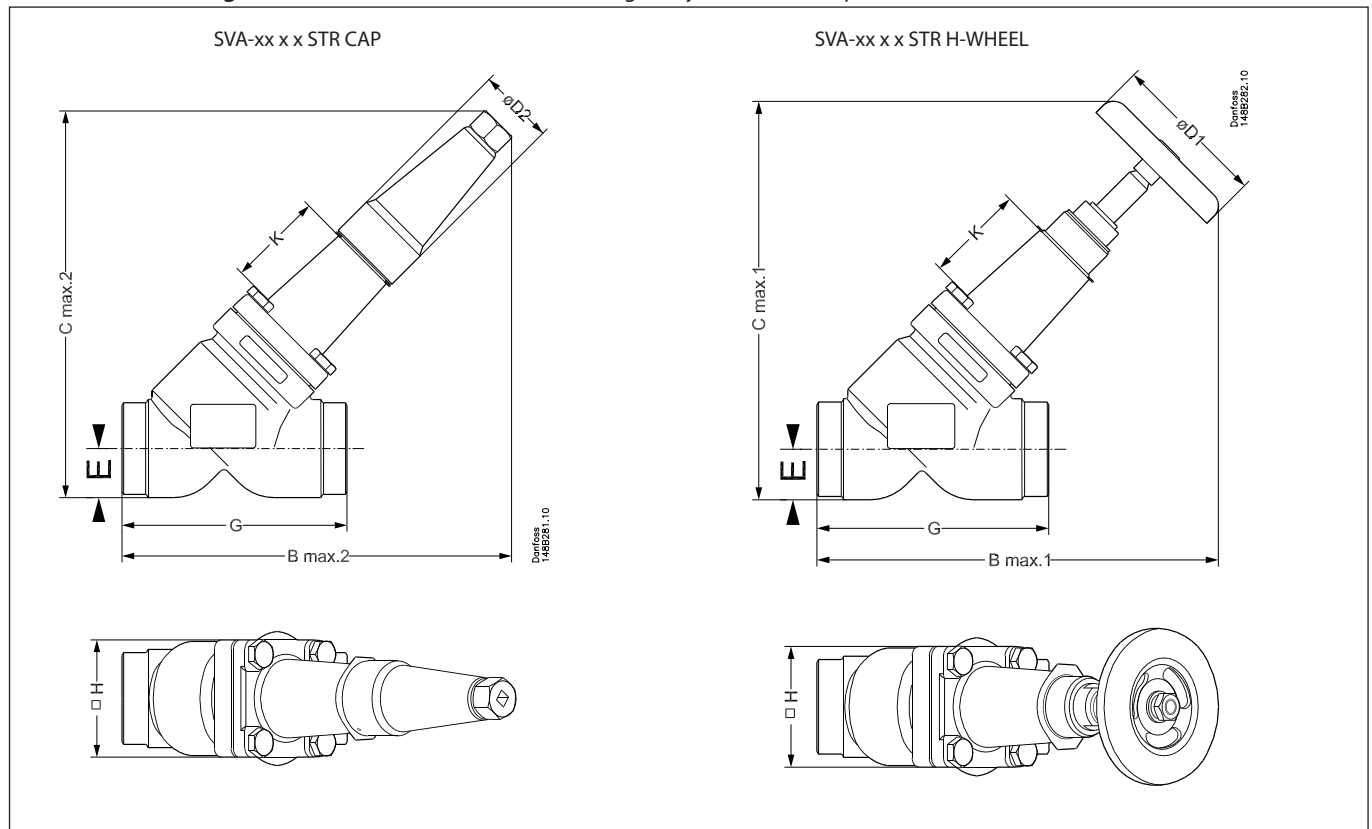
SVA-HS, Socket weld

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.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

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



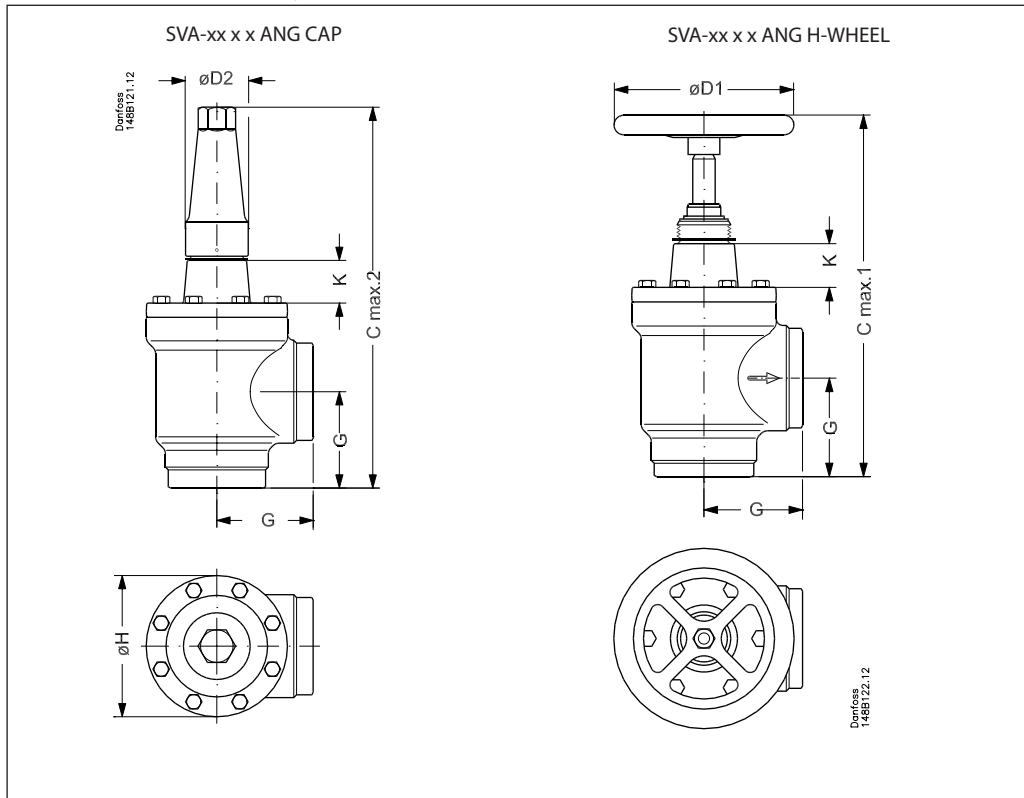
Valve size		K	B _{max.1}	B _{max.2}	C _{max.1}	C _{max.2}	E	G	ØD ₁	ØD ₂	H	Weight
SVA-ST, SS												
SVA 50	mm	35	234	234	232	232	32	148	100	50	77	4.2 kg
SVA (2)	in.	1.38	9.21	9.21	9.13	9.13	1.26	5.83	3.94	1.97	3.03	9.3 lb
SVA 65	mm	40	262	258	262	258	40	176	100	50	90	6.3 kg
SVA (2½)	in.	1.57	10.31	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.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Dimensions and weights

SVA 80 - 200 (3 - 8 in.) angleway version with cap / hand wheel



Valve size	K	C _{max.1}	C _{max.2}	G	ØD ₁	ØD ₂	ØH	Weight
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SVA-ST, SS

SVA 80	mm	41	338	353	90	200	58	129	9.2 kg
SVA (3)	in.	1.61	13.31	13.90	3.54	7.87	2.28	5.08	20.3 lb
SVA 100	mm	43	382	388	106	250	58	156	14.8 kg
SVA (4)	in.	1.69	15.04	15.28	4.17	9.84	2.28	6.14	32.6 lb
SVA 125	mm	90	517	533	128	315	74	193	28.1 kg
SVA (5)	in.	3.54	20.35	20.98	5.04	12.40	2.91	7.60	61.9 lb
SVA 150	mm	90	564	568	145	315	74	219	39.7 kg
SVA (6)	in.	3.54	22.20	22.36	5.71	12.40	2.91	8.62	87.5 lb
SVA 200	mm	90	675	678	180	400	86	276	79.5 kg
SVA (8)	in.	3.54	26.57	26.69	7.09	15.75	3.39	10.87	175.3 lb

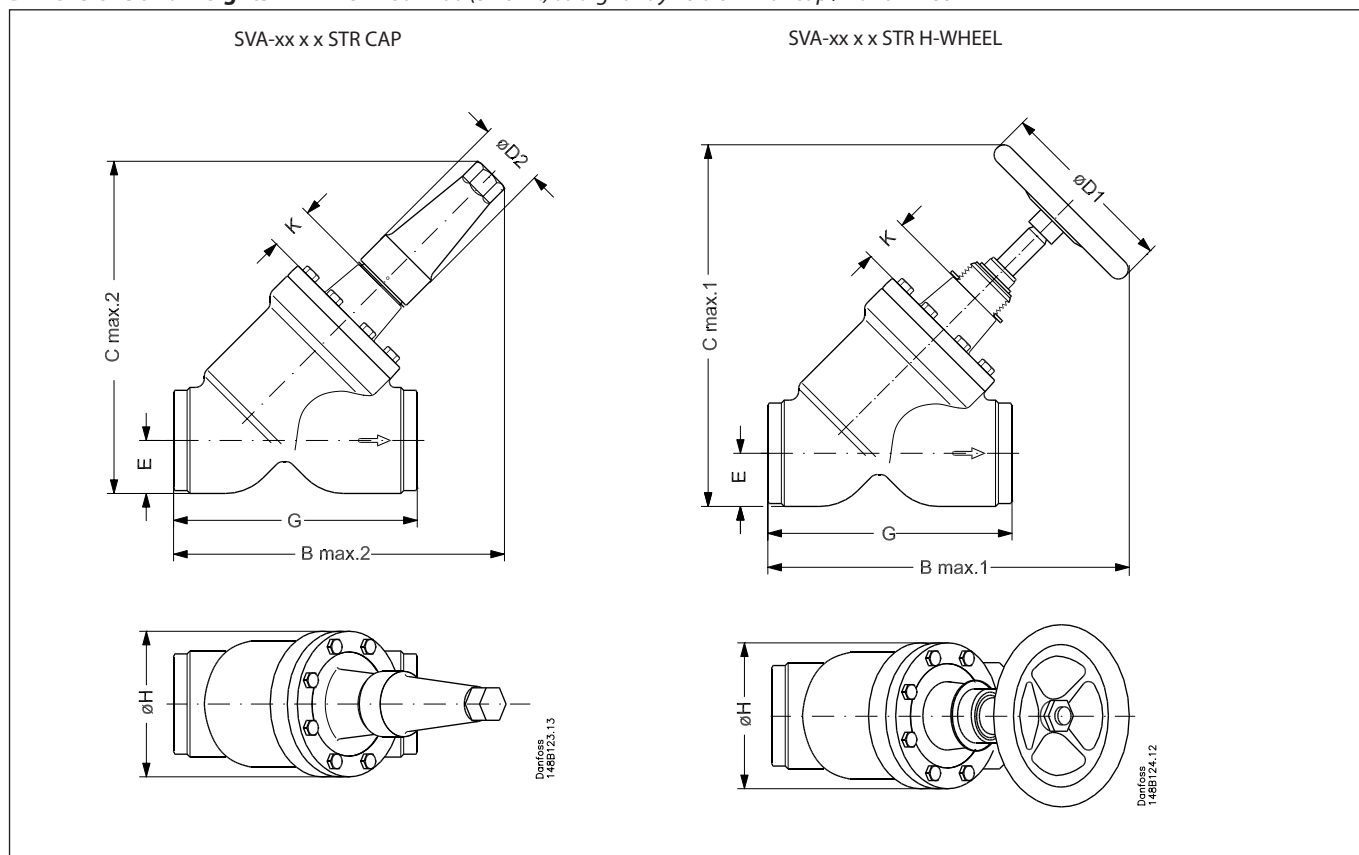
SVA-HS

SVA 80	mm	76	373	388	90	200	58	129	9.7 kg
SVA (3)	in.	3.00	14.69	15.28	3.54	7.87	2.28	5.08	21.4 lb
SVA 100	mm	90	432	437	106	250	58	156	15.3 kg
SVA (4)	in.	3.54	17.00	17.20	4.17	9.84	2.28	6.14	33.7 lb
SVA 125	mm	90	517	533	128	315	74	193	28.1 kg
SVA (5)	in.	3.54	20.35	20.98	5.04	12.40	2.91	7.60	61.9 lb
SVA 150	mm	90	564	568	145	315	74	219	39.7 kg
SVA (6)	in.	3.54	22.20	22.36	5.71	12.40	2.91	8.62	87.5 lb
SVA 200	mm	90	675	678	180	400	86	276	79.5 kg
SVA (8)	in.	3.54	26.57	26.69	7.09	15.75	3.39	10.87	175.3 lb

Specified weights are approximate values only.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Dimensions and weights SVA 80 - 200 (3 - 8 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	ØH	Weight
SVA-ST												
SVA 80	mm	41	340	296	342	298	48	216	200	58	129	10.4 kg
SVA (3)	in.	1.61	13.38	11.65	13.46	11.73	1.89	8.50	7.87	2.28	5.08	22.9 lb
SVA 100	mm	43	400	331	408	339	60	264	250	58	156	17.7 kg
SVA (4)	in.	1.69	15.75	13.03	16.06	13.35	2.36	10.39	9.84	2.28	6.14	39.0 lb
SVA 125	mm	90	526	444	538	456	74	322	315	74	193	32.8 kg
SVA (5)	in.	3.54	20.71	17.48	21.18	17.95	2.91	12.68	12.40	2.91	7.60	72.3 lb
SVA 150	mm	90	572	483	594	505	91	370	315	74	219	60.0 kg
SVA (6)	in.	3.54	22.52	19.02	23.39	19.88	3.58	14.57	12.40	2.91	8.62	132.3 lb
SVA 200	mm	90	692	579	726	613	117	464	400	86	276	111.5 kg
SVA (8)	in.	3.54	27.24	22.80	28.58	24.13	4.61	18.27	15.75	3.39	10.87	245.8 lb
SVA-HS												
SVA 80	mm	76	365	321	367	232	48	216	200	58	129	10.9 kg
SVA (3)	in.	3.00	14.37	12.64	14.45	12.72	1.89	8.50	7.87	2.28	5.08	24.0 lb
SVA 100	mm	90	435	367	443	375	60	264	250	58	156	18.2 kg
SVA (4)	in.	3.54	17.13	14.45	17.44	14.76	2.36	10.39	9.84	2.28	6.14	40.1 lb
SVA 125	mm	90	526	444	538	456	74	322	315	74	193	32.8 kg
SVA (5)	in.	3.54	20.71	17.48	21.18	17.95	2.91	12.68	12.40	2.91	7.60	72.3 lb
SVA 150	mm	90	572	483	594	505	91	370	315	74	219	60.0 kg
SVA (6)	in.	3.54	22.52	19.02	23.39	19.88	3.58	14.57	12.40	2.91	8.62	132.3 lb
SVA 200	mm	90	692	579	726	613	117	464	400	86	276	111.5 kg
SVA (8)	in.	3.54	27.24	22.80	28.58	24.13	4.61	18.27	15.75	3.39	10.87	245.8 lb

Specified weights are approximate values only.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

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
Nominal size in mm		Available connections
(valve size measured on the connection diameter)		A/D SOC FPT T
	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.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Ordering (cont.)

Example:
SVA 6 ANSI angleway with cap =
2412+336

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.

D = Butt-weld DIN
A = Butt-weld ANSI

The table below is used to identify the valve required.

Size		Angleway		Code number
mm	in.	Type		

DIN

6	1/4	SVA 6 D ANG H-WHEEL	2412+308
6	1/4	SVA 6 D ANG CAP	2412+315
10	3/8	SVA 10 D ANG H-WHEEL	2412+309
10	3/8	SVA 10 D ANG CAP	2412+316

ANSI

6	1/4	SVA 6 A ANG H-WHEEL	2412+350
6	1/4	SVA 6 A ANG CAP	2412+357
10	3/8	SVA 10 A ANG H-WHEEL	2412+351
10	3/8	SVA 10 A ANG CAP	2412+358

Size		Straightway		Code number
mm	in.	Type		

DIN

6	1/4	SVA 6 D STR H-WHEEL	2412+329
6	1/4	SVA 6 D STR CAP	2412+336
10	3/8	SVA 10 D STR H-WHEEL	2412+330
10	3/8	SVA 10 D STR CAP	2412+337

ANSI

6	1/4	SVA 6 A STR H-WHEEL	2412+371
6	1/4	SVA 6 A STR CAP	2412+378
10	3/8	SVA 10 A STR H-WHEEL	2412+372
10	3/8	SVA 10 A STR CAP	2412+379

SVA 6T and SVA-ST 10-15 T

Type	Code number
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SVA-ST 10-15 T STOPVALVE STR H-WHEEL	148B3969
SVA-ST 10-15 T STOPVALVE STR CAP	148B3970

SVA-ST 10-15 T STOPVALVE ANG H-WHEEL	148B3818
SVA-ST 10-15 T STOPVALVE ANG CAP	148B3819

SVA-ST 6 T STOPVALVE ANG H-WHEEL	2413+123
SVA-ST 6 T STOPVALVE ANG CAP	2413+125

Accessories

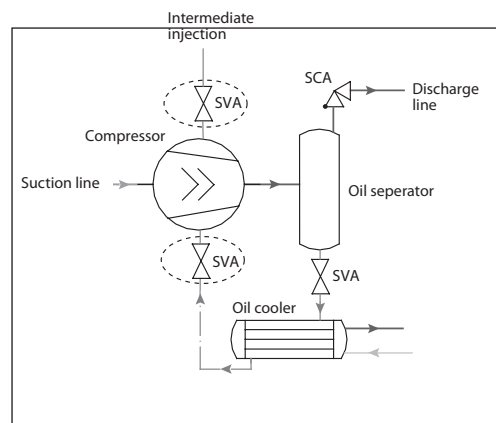
6T and 10-15T Nipple Kit solution

Code no.	
148B4244	ACCESSORY WELD.NIPPLE DN10 D + UNION NUT
148B4245	ACCESSORY WELD.NIPPLE DN6 A + UNION NUT
148B4246	ACCESSORY WELD.NIPPLE DN10 A + UNION NUT
148B4247	ACCESSORY WELD.NIPPLE DN15 A + UNION NUT
148B4184	ACCESSORY WELD.NIPPLE DN6 D + UNION NUT
148B4185	ACCESSORY WELD.NIPPLE DN15 D + UNION NUT

DN6 nipples are used with SVA 6 T.
DN10 and DN15 nipples are used with SVA-ST 10-15 T.

Lock washers for the stop valves, subjected to extreme vibrations/pulsations

Code no.	
148B4238	I-PACK(10) ACC.LOCK WASHER SVA 15-20
148B4239	I-PACK(10) ACC.LOCK WASHER SVA 25-40
148B4240	I-PACK(10) ACC.LOCK WASHER SVA 50-65
148B4241	I-PACK(10) ACC.LOCK WASHER SVA 80-100
148B4242	I-PACK(10) ACC.LOCK WASHER SVA 125-150
148B4243	I-PACK(10) ACC.LOCK WASHER SVA 200



Indication of a pipe line, where stop valves with lock washers are recommended.

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Ordering - SVA-ST (cont.)

Example:
SVA-ST 20 DIN angleway with hand wheel = **148B3441**

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.

The table below is used to identify the valve required.

Standard version		Angleway		MWP		Code number
Size		Type				
mm	in.		bar	psi		

DIN

15	½	SVA-ST 15 D ANG H-WHEEL	40	580	148B3361
15	½	SVA-ST 15 D ANG CAP	40	580	148B3362
20	¾	SVA-ST 20 D ANG H-WHEEL	40	580	148B3441
20	¾	SVA-ST 20 D ANG CAP	40	580	148B3442
25	1	SVA-ST 25 D ANG H-WHEEL	40	580	148B3521
25	1	SVA-ST 25 D ANG CAP	40	580	148B3522
32	1¼	SVA-ST 32 D ANG H-WHEEL	40	580	148B3601
32	1¼	SVA-ST 32 D ANG CAP	40	580	148B3602
40	1½	SVA-ST 40 D ANG H-WHEEL	40	580	148B3681
40	1½	SVA-ST 40 D ANG CAP	40	580	148B3682
50	2	SVA-ST 50 D ANG H-WHEEL	40	580	148B3032
50	2	SVA-ST 50 D ANG CAP	40	580	148B3033
65	2½	SVA-ST 65 D ANG H-WHEEL	40	580	148B3044
65	2½	SVA-ST 65 D ANG CAP	40	580	148B3045
80	3	SVA-ST 80 D ANG H-WHEEL	40	580	148B3061
80	3	SVA-ST 80 D ANG CAP	40	580	148B3062
100	4	SVA-ST 100 D ANG H-WHEEL	40	580	148B3101
100	4	SVA-ST 100 D ANG CAP	40	580	148B3102
125	5	SVA-ST 125 D ANG H-WHEEL	40	580	148B3141
125	5	SVA-ST 125 D ANG CAP	40	580	148B3142
150	6	SVA-ST 150 D ANG H-WHEEL	40	580	148B3181
150	6	SVA-ST 150 D ANG CAP	40	580	148B3182
200	8	SVA-ST 200 D ANG H-WHEEL	40	580	148B3221
200	8	SVA-ST 200 D ANG CAP	40	580	148B3222

ANSI

15	½	SVA-ST 15 A ANG H-WHEEL	40	580	148B3371
15	½	SVA-ST 15 A ANG CAP	40	580	148B3372
20	¾	SVA-ST 20 A ANG H-WHEEL	40	580	148B3451
20	¾	SVA-ST 20 A ANG CAP	40	580	148B3452
25	1	SVA-ST 25 A ANG H-WHEEL	40	580	148B3531
25	1	SVA-ST 25 A ANG CAP	40	580	148B3532
32	1¼	SVA-ST 32 A ANG H-WHEEL	40	580	148B3611
32	1¼	SVA-ST 32 A ANG CAP	40	580	148B3612
40	1½	SVA-ST 40 A ANG H-WHEEL	40	580	148B3691
40	1½	SVA-ST 40 A ANG CAP	40	580	148B3692
50	2	SVA-ST 50 A ANG H-WHEEL	40	580	148B3034
50	2	SVA-ST 50 A ANG CAP	40	580	148B3035
65	2½	SVA-ST 65 A ANG H-WHEEL	40	580	148B3046
65	2½	SVA-ST 65 A ANG CAP	40	580	148B3047
80	3	SVA-ST 80 A ANG H-WHEEL	40	580	148B3071
80	3	SVA-ST 80 A ANG CAP	40	580	148B3072
100	4	SVA-ST 100 A ANG H-WHEEL	40	580	148B3111
100	4	SVA-ST 100 A ANG CAP	40	580	148B3112
125	5	SVA-ST 125 A ANG H-WHEEL	40	580	148B3151
125	5	SVA-ST 125 A ANG CAP	40	580	148B3152
150	6	SVA-ST 150 A ANG H-WHEEL	40	580	148B3191
150	6	SVA-ST 150 A ANG CAP	40	580	148B3192
200	8	SVA-ST 200 A ANG H-WHEEL	40	580	148B3231
200	8	SVA-ST 200 A ANG CAP	40	580	148B3232

SOC

15	½	SVA-ST 15 SOC ANG H-WHEEL	40	580	148B3381
15	½	SVA-ST 15 SOC ANG CAP	40	580	148B3382
20	¾	SVA-ST 20 SOC ANG H-WHEEL	40	580	148B3461
20	¾	SVA-ST 20 SOC ANG CAP	40	580	148B3462
25	1	SVA-ST 25 SOC ANG H-WHEEL	40	580	148B3541
25	1	SVA-ST 25 SOC ANG CAP	40	580	148B3542
32	1¼	SVA-ST 32 SOC ANG H-WHEEL	40	580	148B3621
32	1¼	SVA-ST 32 SOC ANG CAP	40	580	148B3622
40	1½	SVA-ST 40 SOC ANG H-WHEEL	40	580	148B3701
40	1½	SVA-ST 40 SOC ANG CAP	40	580	148B3702
50	2	SVA-ST 50 SOC ANG H-WHEEL	40	580	148B3036
50	2	SVA-ST 50 SOC ANG CAP	40	580	148B3037

FPT

15	½	SVA-ST 15 FPT ANG H-WHEEL	40	580	148B3391
15	½	SVA-ST 15 FPT ANG CAP	40	580	148B3392
20	¾	SVA-ST 20 FPT ANG H-WHEEL	40	580	148B3471
20	¾	SVA-ST 20 FPT ANG CAP	40	580	148B3472
25	1	SVA-ST 25 FPT ANG H-WHEEL	40	580	148B3551
25	1	SVA-ST 25 FPT ANG CAP	40	580	148B3552
32	1¼	SVA-ST 32 FPT ANG H-WHEEL	40	580	148B3631
32	1¼	SVA-ST 32 FPT ANG CAP	40	580	148B3632

D = Butt-weld DIN
A = Butt-weld ANSI
SOC = Socket welding
FPT = Inside pipe thread

ANG = Angle-way
STR = Straight-way

CAP = Cap
H-WHEEL = Hand wheel

Standard version		Straightway		MWP		Code number
Size		Type				
mm	in.		bar	psi		

DIN

15	½	SVA-ST 15 D STR H-WHEEL	40	580	148B3401
15	½	SVA-ST 15 D STR CAP	40	580	148B3402
20	¾	SVA-ST 20 D STR H-WHEEL	40	580	148B3481
20	¾	SVA-ST 20 D STR CAP	40	580	148B3482
25	1	SVA-ST 25 D STR H-WHEEL	40	580	148B3561
25	1	SVA-ST 25 D STR CAP	40	580	148B3562
32	1¼	SVA-ST 32 D STR H-WHEEL	40	580	148B3641
32	1¼	SVA-ST 32 D STR CAP	40	580	148B3642
40	1½	SVA-ST 40 D STR H-WHEEL	40	580	148B3711
40	1½	SVA-ST 40 D STR CAP	40	580	148B3712
50	2	SVA-ST 50 D STR H-WHEEL	40	580	148B3038
50	2	SVA-ST 50 D STR CAP	40	580	148B3039
65	2½	SVA-ST 65 D STR H-WHEEL	40	580	148B3050
65	2½	SVA-ST 65 D STR CAP	40	580	148B3051
80	3	SVA-ST 80 D STR H-WHEEL	40	580	148B3081
80	3	SVA-ST 80 D STR CAP	40	580	148B3082
100	4	SVA-ST 100 D STR H-WHEEL	40	580	148B3121
100	4	SVA-ST 100 D STR CAP	40	580	148B3122
125	5	SVA-ST 125 D STR H-WHEEL	40	580	148B3161
125	5	SVA-ST 125 D STR CAP	40	580	148B3162
150	6	SVA-ST 150 D STR H-WHEEL	40	580	148B3201
150	6	SVA-ST 150 D STR CAP	40	580	148B3202
200	8	SVA-ST 200 D STR H-WHEEL	40	580	148B3241
200	8	SVA-ST 200 D STR CAP	40	580	148B3242

ANSI

15	½	SVA-ST 15 A STR H-WHEEL	40	580	148B3411
15	½	SVA-ST 15 A STR CAP	40	580	148B3412
20	¾	SVA-ST 20 A STR H-WHEEL	40	580	148B3491
20	¾	SVA-ST 20 A STR CAP	40	580	148B3492
25	1	SVA-ST 25 A STR H-WHEEL	40	580	148B3571
25	1	SVA-ST 25 A STR CAP	40	580	148B3572
32	1¼	SVA-ST 32 A STR H-WHEEL	40	580	148B3651
32	1¼	SVA-ST 32 A STR CAP	40	580	148B3652
40	1½	SVA-ST 40 A STR H-WHEEL	40	580	148B3721
40	1½	SVA-ST 40 A STR CAP	40	580	148B3722
50	2	SVA-ST 50 A STR H-WHEEL	40	580	148B3040
50	2	SVA-ST 50 A STR CAP	40	580	148B3041
65	2½	SVA-ST 65 A STR H-WHEEL	40	580	148B3052
65	2½	SVA-ST 65 A STR CAP	40	580	148B3053
80	3	SVA-ST 80 A STR H-WHEEL	40	580	148B3091
80	3	SVA-ST 80 A STR CAP	40	580	148B3092
100	4	SVA-ST 100 A STR H-WHEEL	40	580	148B3131
100	4	SVA-ST 100 A STR CAP	40	580	148B3132
125	5	SVA-ST 125 A STR H-WHEEL	40	580	148B3171
125	5	SVA-ST 125 A STR CAP	40	580	148B3172
150	6	SVA-ST 150 A STR H-WHEEL	40	580	148B3211
150	6	SVA-ST 150 A STR CAP	40	580	148B3212
200	8	SVA-ST 200 A STR H-WHEEL	40	580	148B3251
200	8	SVA-ST 200 A STR CAP	40	580	148B3252

SOC

15	½	SVA-ST 15 SOC STR H-WHEEL	40	580	148B3421
15	½	SVA-ST 15 SOC STR CAP	40	580	148B3422
20	¾	SVA-ST 20 SOC STR H-WHEEL	40	580	148B3501
20	¾	SVA-ST 20 SOC STR CAP	40	580	148B3502
25	1	SVA-ST 25 SOC STR H-WHEEL	40	580	148B3581
25	1	SVA-ST 25 SOC STR CAP	40	580	148B3582
32	1¼	SVA-ST 32 SOC STR H-WHEEL	40	580	148B3661
32	1¼	SVA-ST 32 SOC STR CAP	40	580	148B3662
40	1½	SVA-ST 40 SOC STR H-WHEEL	40	580	148B3731
40	1½	SVA-ST 40 SOC STR CAP	40	580	148B3732
50	2	SVA-ST 50 SOC STR H-WHEEL	40	580	148B3042
50	2	SVA-ST 50 SOC STR CAP	40	580	148B3043

FPT

15	½	SVA-ST 15 FPT STR H-WHEEL	40	580	148B3431
15	½	SVA-ST 15 FPT STR CAP	40	580	148B3432
20	¾	SVA-ST 20 FPT STR H-WHEEL	40	580	148B3511
20	¾	SVA-ST 20 FPT STR CAP	40	580	148B3512
25	1	SVA-ST 25 FPT STR H-WHEEL	40	580	148B3591
25	1	SVA-ST 25 FPT STR CAP	40	580	148B3592
32	1¼	SVA-ST 32 FPT STR H-WHEEL	40	580	148B3671
32	1¼	SVA-ST 32 FPT STR CAP	40	580	148B3672

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Ordering - SVA-SS

Example:
SVA-SS 32 DIN angleway with hand wheel = **148B3850**

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.

The table below is used to identify the valve required.

Stainless Steel version (high pressure)					
Angleway					
Size		Type	MWP		Code number
mm	in.		bar	psi	

DIN

15	½	SVA-SS 15 D ANG CAP 52 BAR	52	754	148B3843
15	½	SVA-SS 15 D ANG H-WHEEL 52 BAR	52	754	148B3844
20	¾	SVA-SS 20 D ANG CAP 52 BAR	52	754	148B3845
20	¾	SVA-SS 20 D ANG H-WHEEL 52 BAR	52	754	148B3846
25	1	SVA-SS 25 D ANG CAP 52 BAR	52	754	148B3847
25	1	SVA-SS 25 D ANG H-WHEEL 52 BAR	52	754	148B3848
32	1¼	SVA-SS 32 D ANG CAP 52 BAR	52	754	148B3849
32	1¼	SVA-SS 32 D ANG H-WHEEL 52 BAR	52	754	148B3850
40	1½	SVA-SS 40 D ANG CAP 52 BAR	52	754	148B3851
40	1½	SVA-SS 40 D ANG H-WHEEL 52 BAR	52	754	148B3852
50	2	SVA-SS 50 D ANG CAP 52 BAR	52	754	148B3853
50	2	SVA-SS 50 D ANG H-WHEEL 52 BAR	52	754	148B3854
65	2½	SVA-SS 65 D ANG CAP 52 BAR	52	754	148B3855
65	2½	SVA-SS 65 D ANG H-WHEEL 52 BAR	52	754	148B3856
80	3	SVA-SS 80 D ANG CAP 50 BAR	50	725	148B4451
100	4	SVA-SS 100 D ANG CAP 50 BAR	50	725	148B4452
125	5	SVA-SS 125 D ANG CAP 50 BAR	50	725	148B4453

Stainless Steel version (high pressure)					
Straightway					
Size		Type	MWP		Code number
mm	in.		bar	psi	

DIN

15	½	SVA-SS 15 D STR CAP 52 BAR	52	754	148B4249
15	½	SVA-SS 15 D STR H-WHEEL 52 BAR	52	754	148B4250
20	¾	SVA-SS 20 D STR CAP 52 BAR	52	754	148B4251
20	¾	SVA-SS 20 D STR H-WHEEL 52 BAR	52	754	148B4252
25	1	SVA-SS 25 D STR CAP 52 BAR	52	754	148B4253
25	1	SVA-SS 25 D STR H-WHEEL 52 BAR	52	754	148B4254
32	1¼	SVA-SS 32 D STR CAP 52 BAR	52	754	148B4255
32	1¼	SVA-SS 32 D STR H-WHEEL 52 BAR	52	754	148B4256
40	1½	SVA-SS 40 D STR CAP 52 BAR	52	754	148B4257
40	1½	SVA-SS 40 D STR H-WHEEL 52 BAR	52	754	148B4258
50	2	SVA-SS 50 D STR CAP 52 BAR	52	754	148B4259
50	2	SVA-SS 50 D STR H-WHEEL 52 BAR	52	754	148B4260
65	2½	SVA-SS 65 D STR CAP 52 BAR	52	754	148B4261
65	2½	SVA-SS 65 D STR H-WHEEL 52 BAR	52	754	148B4262

D = Butt-weld DIN

ANG = Angle-way
STR = Straight-way

CAP = Cap
H-WHEEL = Hand wheel

Stop valves for industrial refrigeration, type SVA, SVA-ST, SVA-HS and SVA-SS

Ordering - SVA-HS (cont.)

Example:
SVA-HS 25 ANSI straightway
with cap = **148B3578**

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.

The table below is used to identify the valve required.

Angleway					
Size		Type	MWP		Code number
mm	in.		bar	psi	

DIN

15	½	SVA-HS 15 D ANG H-WHEEL	40	580	148B3367
15	½	SVA-HS 15 D ANG CAP	40	580	148B3368
20	¾	SVA-HS 20 D ANG H-WHEEL	40	580	148B3447
20	¾	SVA-HS 20 D ANG CAP	40	580	148B3448
25	1	SVA-HS 25 D ANG H-WHEEL	40	580	148B3527
25	1	SVA-HS 25 D ANG CAP	40	580	148B3528
32	1¼	SVA-HS 32 D ANG H-WHEEL	40	580	148B3607
32	1¼	SVA-HS 32 D ANG CAP	40	580	148B3608
40	1½	SVA-HS 40 D ANG H-WHEEL	40	580	148B3687
40	1½	SVA-HS 40 D ANG CAP	40	580	148B3688
50	2	SVA-HS 50 D ANG H-WHEEL	40	580	148B3267
50	2	SVA-HS 50 D ANG CAP	40	580	148B3268
65	2½	SVA-HS 65 D ANG H-WHEEL	40	580	148B3327
65	2½	SVA-HS 65 D ANG CAP	40	580	148B3328
80	3	SVA-HS 80 D ANG H-WHEEL	40	580	148B3067
80	3	SVA-HS 80 D ANG CAP	40	580	148B3068
100	4	SVA-HS 100 D ANG H-WHEEL	40	580	148B3107
100	4	SVA-HS 100 D ANG CAP	40	580	148B3108
125	5	SVA-HS 125 D ANG H-WHEEL	40	580	148B3147
125	5	SVA-HS 125 D ANG CAP	40	580	148B3148
150	6	SVA-HS 150 D ANG H-WHEEL	40	580	148B3187
150	6	SVA-HS 150 D ANG CAP	40	580	148B3188
200	8	SVA-HS 200 D ANG H-WHEEL	40	580	148B3227
200	8	SVA-HS 200 D ANG CAP	40	580	148B3228

ANSI

15	½	SVA-HS 15 A ANG H-WHEEL	40	580	148B3377
15	½	SVA-HS 15 A ANG CAP	40	580	148B3378
20	¾	SVA-HS 20 A ANG H-WHEEL	40	580	148B3457
20	¾	SVA-HS 20 A ANG CAP	40	580	148B3458
25	1	SVA-HS 25 A ANG H-WHEEL	40	580	148B3537
25	1	SVA-HS 25 A ANG CAP	40	580	148B3538
32	1¼	SVA-HS 32 A ANG H-WHEEL	40	580	148B3617
32	1¼	SVA-HS 32 A ANG CAP	40	580	148B3618
40	1½	SVA-HS 40 A ANG H-WHEEL	40	580	148B3697
40	1½	SVA-HS 40 A ANG CAP	40	580	148B3698
50	2	SVA-HS 50 A ANG H-WHEEL	40	580	148B3277
50	2	SVA-HS 50 A ANG CAP	40	580	148B3278
65	2½	SVA-HS 65 A ANG H-WHEEL	40	580	148B3337
65	2½	SVA-HS 65 A ANG CAP	40	580	148B3338
80	3	SVA-HS 80 A ANG H-WHEEL	40	580	148B3077
80	3	SVA-HS 80 A ANG CAP	40	580	148B3078
100	4	SVA-HS 100 A ANG H-WHEEL	40	580	148B3117
100	4	SVA-HS 100 A ANG CAP	40	580	148B3118
125	5	SVA-HS 125 A ANG H-WHEEL	40	580	148B3157
125	5	SVA-HS 125 A ANG CAP	40	580	148B3158
150	6	SVA-HS 150 A ANG H-WHEEL	40	580	148B3197
150	6	SVA-HS 150 A ANG CAP	40	580	148B3198
200	8	SVA-HS 200 A ANG H-WHEEL	40	580	148B3237
200	8	SVA-HS 200 A ANG CAP	40	580	148B3238

SOC

15	½	SVA-HS 15 SOC ANG H-WHEEL	40	580	148B3387
15	½	SVA-HS 15 SOC ANG CAP	40	580	148B3388
20	¾	SVA-HS 20 SOC ANG H-WHEEL	40	580	148B3467
20	¾	SVA-HS 20 SOC ANG CAP	40	580	148B3468
25	1	SVA-HS 25 SOC ANG H-WHEEL	40	580	148B3547
25	1	SVA-HS 25 SOC ANG CAP	40	580	148B3548
32	1¼	SVA-HS 32 SOC ANG H-WHEEL	40	580	148B3627
32	1¼	SVA-HS 32 SOC ANG CAP	40	580	148B3628
40	1½	SVA-HS 40 SOC ANG H-WHEEL	40	580	148B3707
40	1½	SVA-HS 40 SOC ANG CAP	40	580	148B3708
50	2	SVA-HS 50 SOC ANG H-WHEEL	40	580	148B3287
50	2	SVA-HS 50 SOC ANG CAP	40	580	148B3288

FPT

15	½	SVA-HS 15 FPT ANG H-WHEEL	40	580	148B3397
15	½	SVA-HS 15 FPT ANG CAP	40	580	148B3398
20	¾	SVA-HS 20 FPT ANG H-WHEEL	40	580	148B3477
20	¾	SVA-HS 20 FPT ANG CAP	40	580	148B3478
25	1	SVA-HS 25 FPT ANG H-WHEEL	40	580	148B3557
25	1	SVA-HS 25 FPT ANG CAP	40	580	148B3558

Straightway					
Size		Type	MWP		Code number
mm	in.		bar	psi	

DIN

15	½	SVA-HS 15 D STR H-WHEEL	40	580	148B3407
15	½	SVA-HS 15 D STR CAP	40	580	148B3408
20	¾	SVA-HS 20 D STR H-WHEEL	40	580	148B3487
20	¾	SVA-HS 20 D STR CAP	40	580	148B3488
25	1	SVA-HS 25 D STR H-WHEEL	40	580	148B3567
25	1	SVA-HS 25 D STR CAP	40	580	148B3568
32	1¼	SVA-HS 32 D STR H-WHEEL	40	580	148B3647
32	1¼	SVA-HS 32 D STR CAP	40	580	148B3648
40	1½	SVA-HS 40 D STR H-WHEEL	40	580	148B3717
40	1½	SVA-HS 40 D STR CAP	40	580	148B3718
50	2	SVA-HS 50 D STR H-WHEEL	40	580	148B3297
50	2	SVA-HS 50 D STR CAP	40	580	148B3298
65	2½	SVA-HS 65 D STR H-WHEEL	40	580	148B3347
65	2½	SVA-HS 65 D STR CAP	40	580	148B3348
80	3	SVA-HS 80 D STR H-WHEEL	40	580	148B3087
80	3	SVA-HS 80 D STR CAP	40	580	148B3088
100	4	SVA-HS 100 D STR H-WHEEL	40	580	148B3127
100	4	SVA-HS 100 D STR CAP	40	580	148B3128
125	5	SVA-HS 125 D STR H-WHEEL	40	580	148B3167
125	5	SVA-HS 125 D STR CAP	40	580	148B3168
150	6	SVA-HS 150 D STR H-WHEEL	40	580	148B3207
150	6	SVA-HS 150 D STR CAP	40	580	148B3208
200	8	SVA-HS 200 D STR H-WHEEL	40	580	148B3247
200	8	SVA-HS 200 D STR CAP	40	580	148B3248

ANSI

15	½	SVA-HS 15 A STR H-WHEEL	40	580	148B3417
15	½	SVA-HS 15 A STR CAP	40	580	148B3418
20	¾	SVA-HS 20 A STR H-WHEEL	40	580	148B3497
20	¾	SVA-HS 20 A STR CAP	40	580	148B3498
25	1	SVA-HS 25 A STR H-WHEEL	40	580	148B3577
25	1	SVA-HS 25 A STR CAP	40	580	148B3578
32	1¼	SVA-HS 32 A STR H-WHEEL	40	580	148B3657
32	1¼	SVA-HS 32 A STR CAP	40	580	148B3658
40	1½	SVA-HS 40 A STR H-WHEEL	40	580	148B3727
40	1½	SVA-HS 40 A STR CAP	40	580	148B3728
50	2	SVA-HS 50 A STR H-WHEEL	40	580	148B3307
50	2	SVA-HS 50 A STR CAP	40	580	148B3308
65	2½	SVA-HS 65 A STR H-WHEEL	40	580	148B3357
65	2½	SVA-HS 65 A STR CAP	40	580	148B3358
80	3	SVA-HS 80 A STR H-WHEEL	40	580	148B3097
80	3	SVA-HS 80 A STR CAP	40	580	148B3098
100	4	SVA-HS 100 A STR H-WHEEL	40	580	148B3137
100	4	SVA-HS 100 A STR CAP	40	580	148B3138
125	5	SVA-HS 125 A STR H-WHEEL	40	580	148B3177
125	5	SVA-HS 125 A STR CAP	40	580	148B3178
150	6	SVA-HS 150 A STR H-WHEEL	40	580	148B3217
150	6	SVA-HS 150 A STR CAP	40	580	148B3218
200	8	SVA-HS 200 A STR H-WHEEL	40	580	148B3257
200	8	SVA-HS 200 A STR CAP	40	580	148B3258

SOC

15	½	SVA-HS 15 SOC STR H-WHEEL	40	580	148B3427
15	½	SVA-HS 15 SOC STR CAP	40	580	148B3428
20	¾	SVA-HS 20 SOC STR H-WHEEL	40	580	148B3507
20	¾	SVA-HS 20 SOC STR CAP	40	580	148B3508
25	1	SVA-HS 25 SOC STR H-WHEEL	40	580	148B3587
25	1	SVA-HS 25 SOC STR CAP	40	580	148B3588
32	1¼	SVA-HS 32 SOC STR H-WHEEL	40	580	148B3667
32	1¼	SVA-HS 32 SOC STR CAP	40	580	148B3668
40	1½	SVA-HS 40 SOC STR H-WHEEL	40	580	148B3737
40	1½	SVA-HS 40 SOC STR CAP	40	580	148B3738
50	2	SVA-HS 50 SOC STR H-WHEEL	40	580	148B3317
50	2	SVA-HS 50 SOC STR CAP	40	580	148B3318

FPT

15	½	SVA-HS 15 FPT STR H-WHEEL	40	580	148B3437
15	½	SVA-HS 15 FPT STR CAP	40	580	148B3438
20	¾	SVA-HS 20 FPT STR H-WHEEL	40	580	148B3517
20	¾	SVA-HS 20 FPT STR CAP	40	580	148B3518
25	1	SVA-HS 25 FPT STR H-WHEEL	40	580	148B3597
25	1	SVA-HS 25 FPT STR CAP	40	580	148B3598

D = Butt-weld DIN
A = Butt-weld ANSI
SOC = Socket welding
FPT = Inside pipe thread

ANG = Angle-way
STR = Straight-way

CAP = Cap
H-WHEEL = Hand wheel

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