

Data sheet

Check & stop valve, SCA-X Check valve, CHV-X



SCA-X are check valves with a built-in shut-off valve function. SCA-X valves are available in angleway versions.

CHV-X are check valves only. CHV-X are available in both angleway and straightway versions.

The valves are designed to open at very low differential pressures, allow favourable flow conditions and are easy to disassemble for inspection and service.

The SCA-X is equipped with vented cap and has internal backseating enabling the spindle seal to be replaced whilst the valve still under pressure.

Laser cut V-ports provide excellent opening characteristics (SCA-X/CHV-X 50-125).

The valve cone has a built-in flexibility to ensure a precise and tight closing towards the valve seat.

A well balanced dampening effect between the piston and the cylinder gives an optimal protection during low loads and against pulsations.

Features

- Applicable to HCFC, HFC, R717 (Ammonia), R744 (CO₂), Propane, Butane, Iso-Butane and Ethane. R717 Heat Pump and Propylene applications with replaced O-ring.
- Modular Concept:
 - Each valve housing is available with several different connection types and sizes.
 - Possible to convert SCA-X or CHV-X to any other product in the Flexline™ SVL family (Hand operated regulating valve, shut-off valve or strainer) just by replacing the complete top part.
- Fast and easy valve overhaul service. It is easy to replace the top part and no welding is needed.
- Designed to open at a very low differential pressure of 0.04 bar / 0.58 psig.
- Designed with a built-in damping chamber preventing valve flutter in case of low refrigerant velocity and/or low density.
- Each valve is clearly marked with type, size and performance range.
Additional ID ring to be installed when preparing for Ammonia Heat Pump or Propylene application.
- Easy to disassemble for inspection and service.
- Internal backseating enables replacement of the spindle seal whilst the valve is active, i.e. under pressure.
- Optimal flow characteristics ensuring quick opening to the fully open position.
- Protection against pulsation by built-in damping facility.
- Housing and bonnet material is low temperature steel according to requirements of the Pressure Equipment Directive and other international classification authorities.
- Equipped with Stainless steel bolts.
- Max. working pressure:
52 bar g / 754 psi g
- Temperature range:
-60 – 150 °C / -76 – 302 °F
- Classification: DNV, CRN, BV, EAC etc.
To get an updated list of certification on the products please contact your local Danfoss Sales Company.

Design

Connections

Available with the following connections:

- Butt-weld DIN (EN 10220)
DN 15 - 125 (½ - 5 in.)
- Butt-weld ANSI (B 36.10 Schedule 80),
DN 15 - 40 (½ - 1½ in.)
- Butt-weld ANSI (B 36.10 Schedule 40),
DN 50 - 125 (2 - 5 in.)
- Butt-weld GOST, (8734-75 and 8732-78)
DN 15 - 125 (½ - 5 in.)
- Socket-weld ANSI (B 16.11),
DN 50 (2 in.)

Housing

The housing is made from special, cold resistant steel.

Valve cone

Valve cone with built in metallic stop - prevents damage to teflon ring in case of overtightening.

Damping chamber

The chamber is filled with refrigerants (gas or liquid), which provides a damping effect when the valve opens and closes.

Spindle (SCA-X)

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

Packing Gland (SCA-X)

The "full temperature range" packing gland is the standard for the entire SVL platform.

This ensures perfect tightness throughout the whole temperature range:
-60 – 150 °C / -76 – 302 °F.

Pressure Equipment Directive (PED)

The SCA-X/CHV-X valves are approved according to the European standard specified in the Pressure Equipment Directive and are CE marked.

For further details / restrictions - see the product instruction.

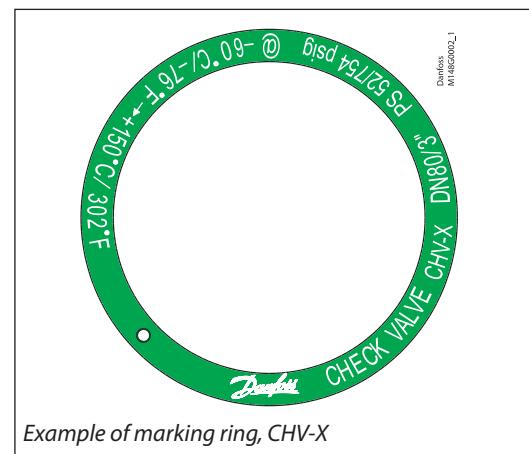
Installation

The valve must be mounted vertically with the cone downwards.

The valve is designed to resist very 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 SCA-X/CHV-X.

If cold refrigeration oil having low viscosity enters and settles in the damping chamber, problems with the check valve may arise. Consequently, it may be necessary to modify the valve for more viscous liquids by enlarging the hole to the damping chamber.



Example of marking ring, CHV-X



SCA-X/CHV-X valves			
Nominal bore	DN = < 25 mm (1 in.)	DN32-80 mm (1¼ - 3 in.)	DN100 - 125 mm (4 - 5 in.)
Classified for	Fluid group I		
Category	Article 3, paragraph 3	II	III

Application

Figure 3 shows the check & stop valve SCA-X in the discharge line of a screw compressor unit. The SCA-X valve in the discharge line prevents "back condensation" in the oil separator as well as pressure equalising through the compressor.

Compared to an ordinary shut-off and check valve arrangement the combined check & stop valve solution, as shown, is easier to install and has lower flow resistance.

Installation of the SCA-X/CHV-X in the economizer line is **not** recommended.

For horizontal installation of the function module; please contact Danfoss.

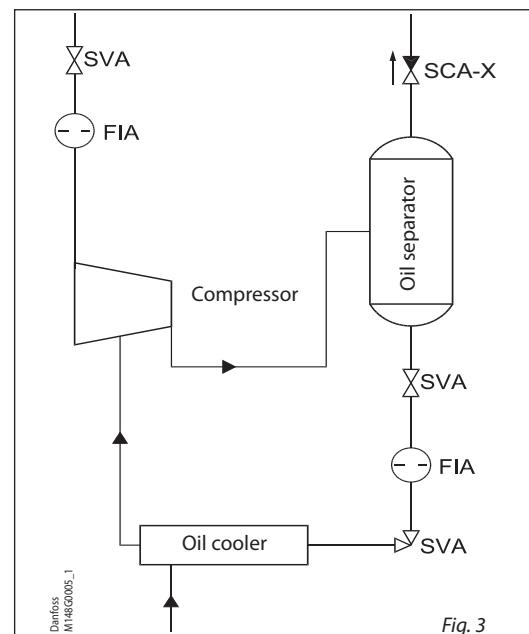


Fig. 3

Technical data

- Refrigerants*
Applicable to HCFC, HFC, R717 (Ammonia), R744 (CO₂), Propane, Butane, Iso-Butane and Ethane.
R717 Heat Pump and Propylene applications with replaced O-ring.
- Temperature range*
-60 – 150 °C / -76 – 302 °F.
- Max. working pressure*
52 bar g / 754 psig.

Computation and selection

Introduction

When dimensioning SCA-X/CHV-X, it is important to select a valve that is best suited to all operating conditions. Therefore, it is necessary to consider both the nominal and part load working conditions.

The SCA-X/CHV-X valve can be calculated in two ways:

- Using the tables below.
- Using Coolselector®2

Example

SI-Units

Assumed working conditions:
Maximum flow $\dot{V} = 1000 \text{ m}^3/\text{h}$
Density $\rho = 3.0 \text{ kg/m}^3$
Minimum part load = 33%

Used expressions:

Recommended velocity - C_{rec} [m/s]
Minimum recommended velocity - $C_{\min, \text{rec}}$ [m/s]
Maximum velocity - C_{\max} [m/s]
Part load velocity - C_{part} [m/s]

We know the density $\rho \approx 3.0 \text{ kg/m}^3$, consequently C_{rec} as well as $C_{\min, \text{rec}}$ can be found in the figure below (standard valve).

$$C_{\text{rec}} \approx 14 \text{ m/s}$$

$$C_{\min, \text{rec}} \approx 3 \text{ m/s}$$

US-Units

Assumed working conditions:
Maximum flow $\dot{V} = 1160 \text{ gpm}$
Density $\rho = 0.187 \text{ lb/feet}^3$
Minimum part load = 33%

Used expressions:

Recommended velocity - C_{rec} [ft/min]
Minimum recommended velocity - $C_{\min, \text{rec}}$ [ft/min]
Maximum velocity - C_{\max} [ft/min]
Part load velocity - C_{part} [ft/min]

We know the density $\rho \approx 0.187 \text{ lb/feet}^3$, consequently C_{rec} as well as $C_{\min, \text{rec}}$ can be found in the figure (standard valve).

$$C_{\text{rec}} \approx 2756 \text{ ft/min}$$

$$C_{\min, \text{rec}} \approx 591 \text{ ft/min}$$

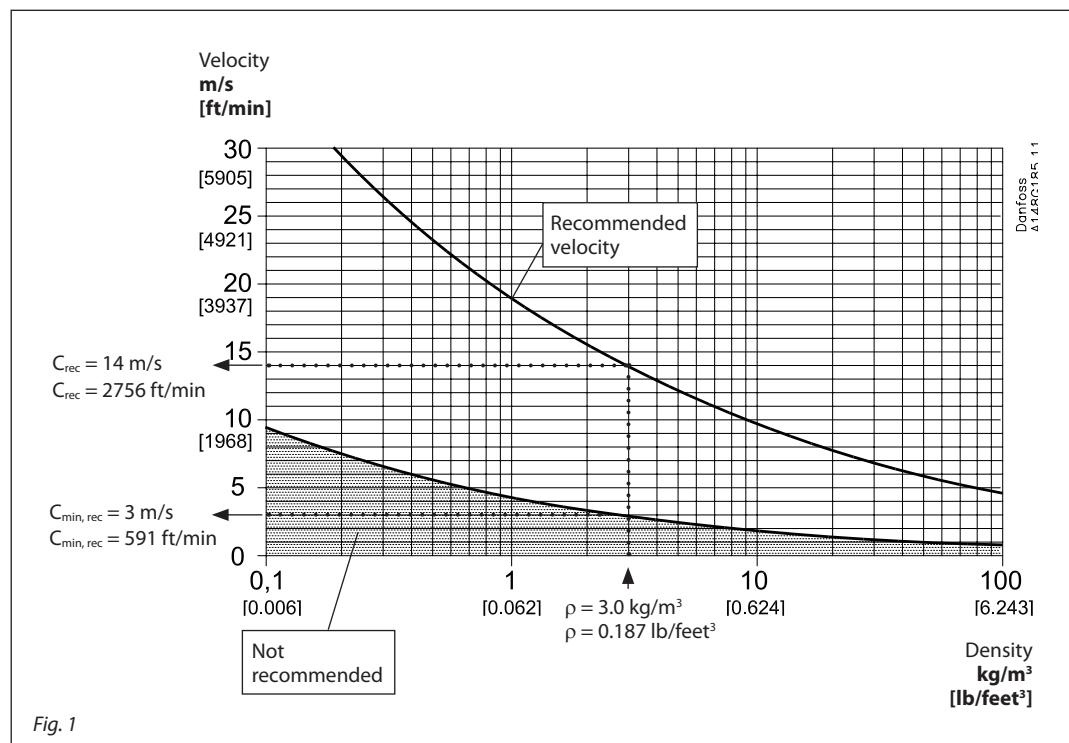


Fig. 1

Selection example continued on following page.

**Computation and selection
(continued)**

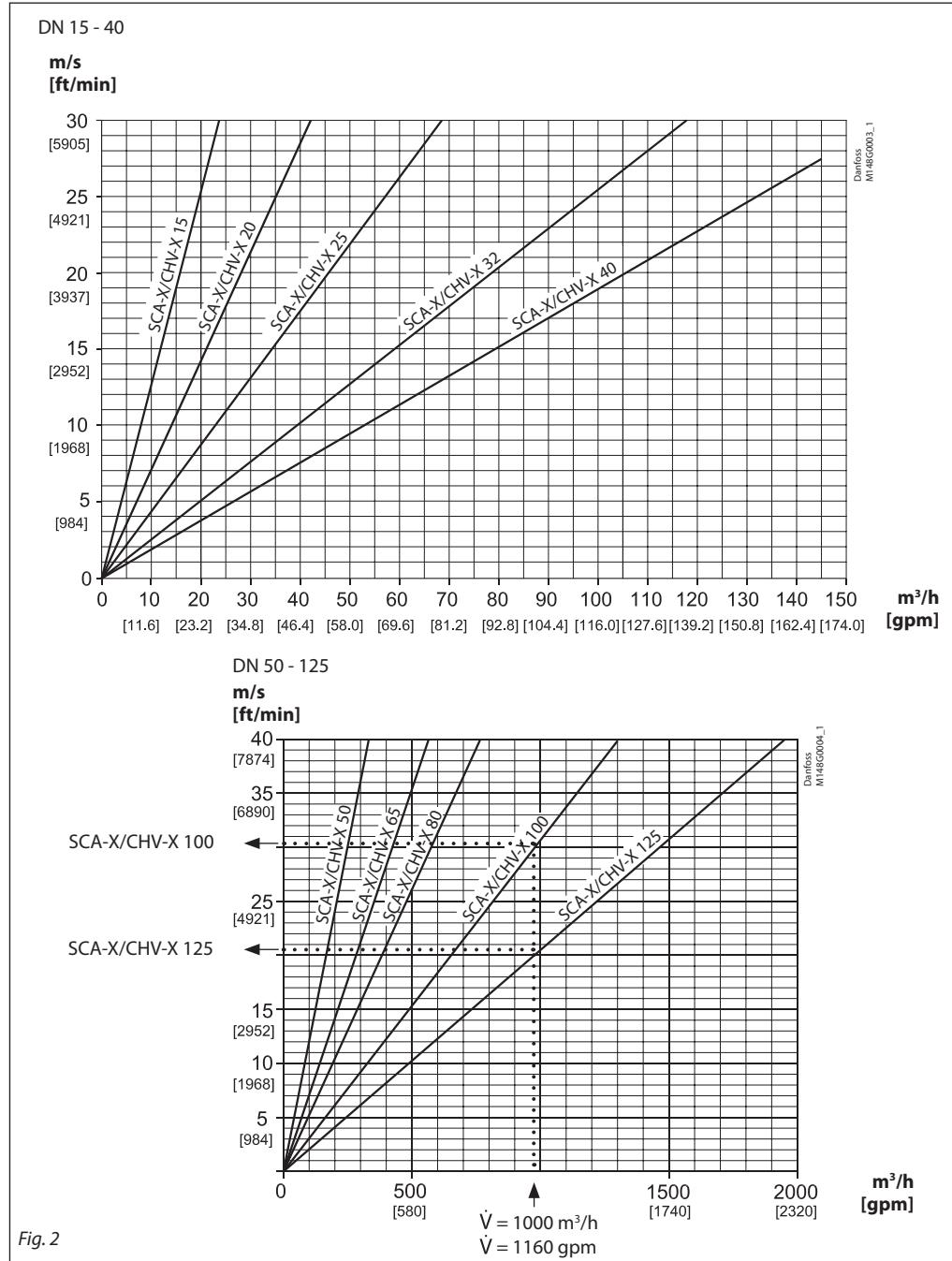
Knowing that $\dot{V} = 1000 \text{ m}^3/\text{h}$ (1160 gpm) fig. 2 gives the following choices:

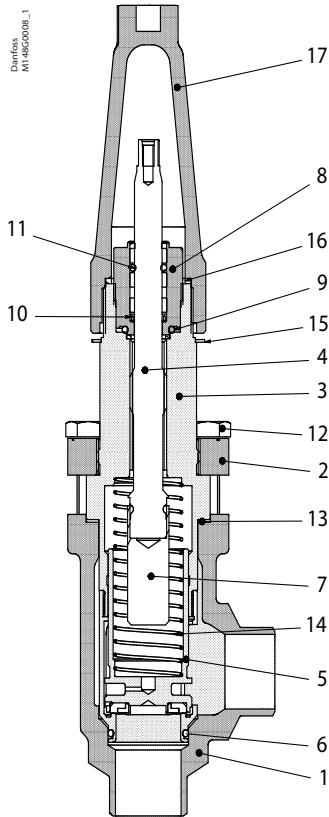
For SCA-X/CHV-X in size DN 100 the maximum velocity $C_{\max} \approx 31 \text{ m/s}$ (6100 ft/min)
For SCA-X/CHV-X in size DN 125 the maximum velocity $C_{\max} \approx 20 \text{ m/s}$ (3900 ft/min)

In conclusion SCA-X in size DN 125 is selected because $C_{\max} \approx 20 \text{ m/s}$ (3900 ft/min) comes nearest to the recommended velocity $C_{\text{rec}} \approx 14 \text{ m/s}$ (2756 ft/min) and at the same time part load conditions fulfil the requirements, as described:

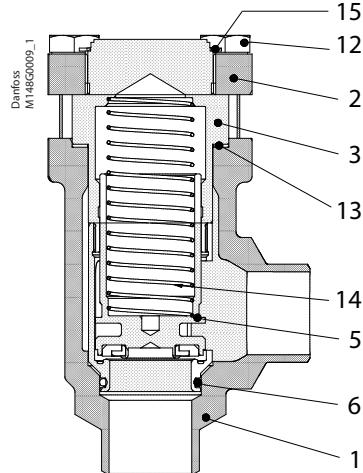
We know that $C_{\max} \approx 20 \text{ m/s}$ (3900 ft/min) and that minimum part load is 33%. It follows that $C_{\text{part}} \approx 6.5 \text{ m/s}$ (1290 ft/min). Thus, $C_{\text{part}} (6.5 \text{ m/s}) > C_{\min, \text{rec}}$

(3.0 m/s) and the selected SCA-X model DN125 is the perfect choice.
If the valve in question (for instance under part load conditions) provides a velocity less than $C_{\min, \text{rec}}$ the valve might start hammering and become noisy. As a result the valve may wear prematurely.

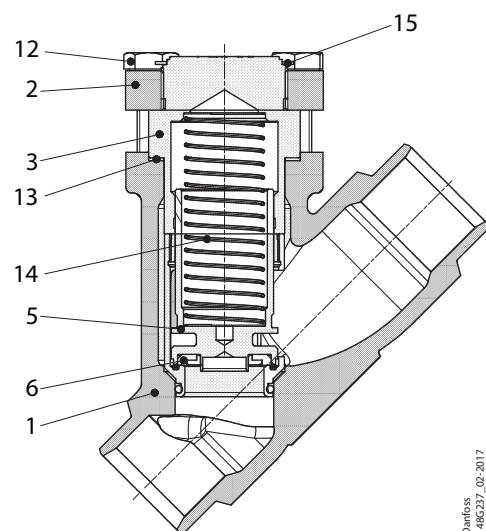


Material specification


SCA-X 15 - 40



CHV-X 15 - 40



CHV-X 15 - 40

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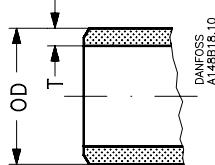
No.	Part	Material	DIN/EN	ISO	ASTM
1	Housing	Steel	P285QH EN10222-4		LF2A350
2	Bonnet, Flange	Steel	P275NL1 EN10028-3		
3	Bonnet, Insert	Steel			
4	Spindle	Stainless steel	X 10CrNiS18-9	Type 17, 17440	AISI 303, 683/13
5	Cone	Steel Teflon (PTFE)			
6	O-ring	Cloroprene (Neoprene)			
7	Spindle extension	Steel			
8	Packing gland O-rings	Steel Cloroprene (Neoprene)			
9	Packing washer	Aluminium			
10	Spring loaded seal	Teflon (PTFE)			
11	O-ring	Cloroprene (Neoprene)			
12	Bolts	Stainless steel	A2-70	A2-70	Type 308
13	Gasket	Fiber, non-asbestos			
14	Spring	Steel			
15	Identification ring	Stainless steel			
16	Seal cap gasket	Nylon			
17	Spindle seal cap	Aluminium			

Material specification

No.	Part	Material	DIN/EN	ISO	ASTM
1	Housing DN 50-65	Steel	P285 QH EN 10222-4		LF2A350
	Housing DN 80-125	Steel	G20Mn5 QT SEW 685		LCC, A352
2	Gasket	Fiber, Non-asbestos			
3	SCA-X: Valve bonnet CHV-X: End cover	Steel	P285 QH EN 10222-4		LF2A350
4	Bolts	Stainless steel	A2-70	A2-70	A-276
5	Tube	Steel			
6	Seat	Steel			
7	Valve plate	Steel			
8	Guide sleeve	Steel			
9	Spring ring	Steel			
10	Spring	Steel			
11	O-ring	Cloroprene (Neoprene)			
12	Teflon ring	Teflon (PTFE)			
13	Soft back seal	Teflon (PTFE)			
14	Spindle DN 50-65	Stainless steel	X8CrNiS18-9 17440	Type 17 R 683/13	AISI 303
	Spindle DN 80-125	Stainless steel	X5CrNi1810 17440	Type 11 683/13	AISI 304 A-276
15	Packing gland	Steel	9Mn28, 1651	Type 2, R 683/9	1213, SAE J403
16	Spindle seal cap and gasket	Aluminium			
17	Marking label	Stainless steel			
18	Eye bolt DIN 580	Steel			

Connections

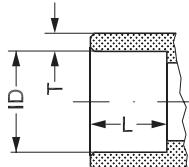
Size mm	Size in.	OD mm	T mm	OD in.	T in.			k_v Angleway m^3/h	C_v Angleway USgal/min	K_v Straightway m^3/h	C_v Straightway USgal/min
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ANSI

Butt-weld ANSI (B 36.10 Schedule 80)

15	½	21.3	3.7	0.839	0.146			8	9.3	4	4.6
20	¾	26.9	4.0	1.059	0.158			10	11.6	7	8.1
25	1	33.7	4.6	1.327	0.181			24	27.8	16	18.6
32	1¼	42.4	4.9	1.669	0.193			30	34.8	21	24.4
40	1½	48.3	5.1	1.902	0.201			30	34.8	21	24.4

Butt-weld ANSI (B 36.10 Schedule 40)

50	2	60.3	3.9	2.37	0.15			45	53	28	34
65	2½	73.0	5.2	2.87	0.20			72	85	41	48
80	3	88.9	5.5	3.50	0.22			103	129	81	94
100	4	114.3	6.0	4.50	0.24			196	232	157	182
125	5	141.3	6.6	5.56	0.26			301	356	250	290

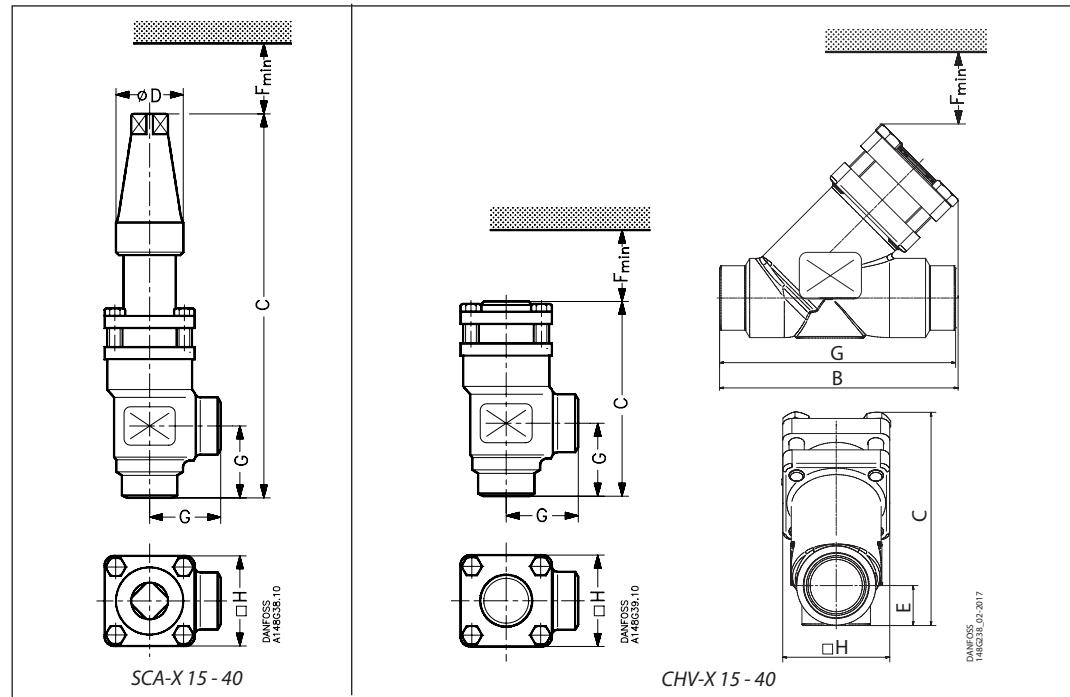
SOC

Socket welding ANSI (B 16.11)

Size mm	Size in.	ID mm	T mm	ID in.	T in.	L mm	L in.				
15	½	21.8	6	0.858	0.235	10	0.39				
20	¾	27.2	4.6	1.071	0.181	13	0.51				
25	1	33.9	7.2	1.335	0.284	13	0.51				
32	1¼	42.7	6.1	1.743	0.240	13	0.51				
40	1½	48.8	6.6	1.921	0.260	13	0.51				
50	2	61.2	6.2	2.41	0.24	16	0.63				

Data sheet | Check & stop valve, type SCA-X - Check valve, type CHV-X

Dimensions and weights

SCA-X/CHV-X 15 - 40 (½- 1½ in.)



Valve size	C	G	D	F _{min}	H	Weight
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SCA-X 15 - 40

SCA-X 15 (½ in.)	mm in.	212 8.35		45 1.77	38 1.50		60 2.36		60 2.36	1.6 kg 3.53 lb
SCA-X 20 (¾ in.)	mm in.	212 8.35		45 1.77	38 1.50		60 2.36		60 2.36	1.6 kg 3.53 lb
SCA-X 25 (1 in.)	mm in.	295 11.61		55 2.17	50 1.97		85 3.35		70 2.76	3.2 kg 7.05 lb
SCA-X 32 (1¼ in.)	mm in.	295 11.61		55 2.17	50 1.97		85 3.35		70 2.76	3.2 kg 7.05 lb
SCA-X 40 (1½ in.)	mm in.	295 11.61		55 2.17	50 1.97		85 3.35		70 2.76	3.2 kg 7.05 lb

CHV-X 15 - 40 Angleway

CHV-X 15 (½ in.)	mm in.	103 4.06		45 1.77			60 2.36		60 2.36	1.2 kg 2.65 lb
CHV-X 20 (¾ in.)	mm in.	103 4.06		45 1.77			60 2.36		60 2.36	1.2 kg 2.65 lb
CHV-X 25 (1 in.)	mm in.	143 5.63		55 2.17			85 3.35		70 2.76	2.3 kg 5.07 lb
CHV-X 32 (1¼ in.)	mm in.	143 5.63		55 2.17			85 3.35		70 2.76	2.3 kg 5.07 lb
CHV-X 40 (1½ in.)	mm in.	143 5.63		55 2.17			85 3.35		70 2.76	2.3 kg 5.07 lb

Valve size	C	B	E	G	F _{min}	H	Weight
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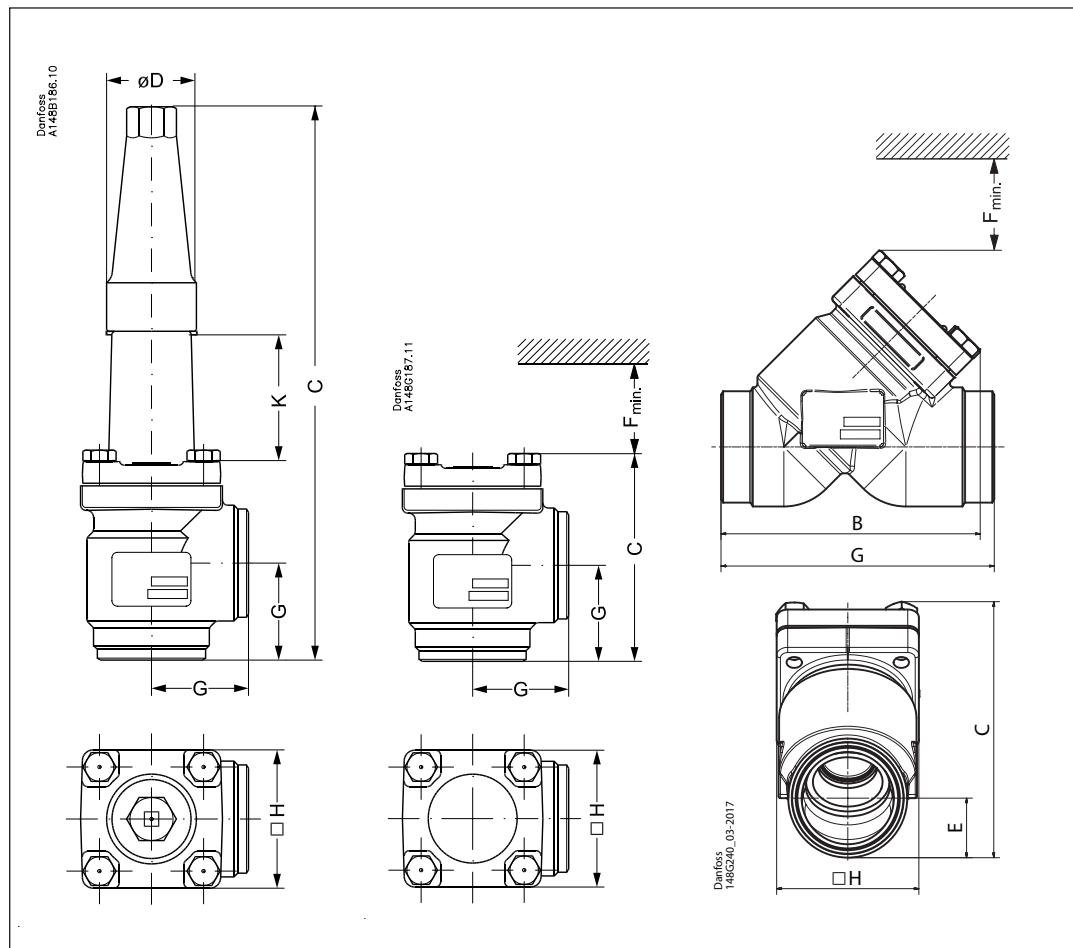
CHV-X 15 - 40 Straightway

CHV-X 15 (½ in.)	mm in.	99 3.90	114 4.49	19 0.75	120 4.72		60 2.36		60 2.36	1.3kg 2.87lb
CHV-X 20 (¾ in.)	mm in.	99 3.90	114 4.49	19 0.75	120 4.72		60 2.36		60 2.36	1.3kg 2.87lb
CHV-X 25 (1 in.)	mm in.	141 5.55	157 6.18	26 1.02	155 6.10		85 3.35		70 2.76	2.6kg 5.73lb
CHV-X 32 (1¼ in.)	mm in.	141 5.55	157 6.18	26 1.02	155 6.10		85 3.35		70 2.76	2.6kg 5.73lb
CHV-X 40 (1½ in.)	mm in.	141 5.55	157 6.18	26 1.02	155 6.10		85 3.35		70 2.76	2.6kg 5.73lb

CHV-X 32-40 Straightway, Socket weld

Specified weights are approximate values only.

CHV-X 32-40 (1¼ - 1½ in.)	mm in.	132 5.20	156 6.14	26 1.02		155 6.10		85 3.35		70 2.76	2.8kg 6.11lb
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Dimensions and weights
SCA-X/CHV-X 50 - 65 (2 - 2½ in.)


Valve size	K			C		G	ØD	□H		Weight
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SCA-X

SCA-X 50 SCA-X (2)	mm in.	70 2.76		315 12.40		60 2.36	50 1.97	77 3.03		3.8 kg 8.40 lb
SCA-X 65 SCA-X (2½)	mm in.	70 2.76		335 13.19		70 2.76	50 1.97	90 3.54		5.5 kg 12.16 lb

Valve size				C		G	F _{min.}	□H		Weight
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CHV-X Angleway

CHV-X 50 CHV-X (2)	mm in.			132 5.20		60 2.36	92 3.62	77 3.03		3.2 kg 7.10 lb
CHV-X 65 CHV-X (2½)	mm in.			152 5.98		70 2.76	107 4.21	90 3.54		4.5 kg 9.95 lb

Valve size				C	B	E	G	F _{min.}	□H	Weight
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CHV-X Straightway

CHV-X 50 CHV-X (2)	mm in.			139 5.47	140 5.51	32 1.26	148 5.83	92 3.62	77 3.03		3 kg 6.72 lb
CHV-X 65 CHV-X (2½)	mm in.			163 6.4	164 6.4	40 1.6	176 6.9	107 4.21	90 3.54		4.3 kg 9.44 lb

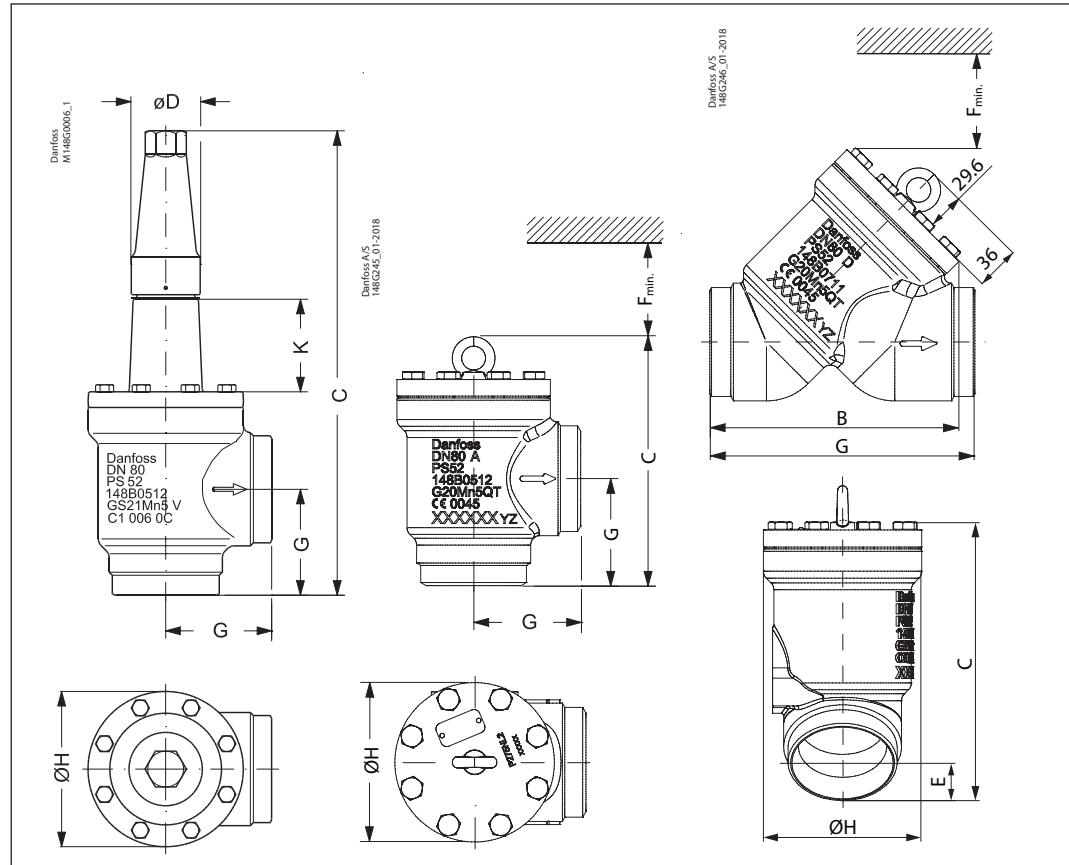
CHV-X Straightway, Socket weld

CHV-X 50 CHV-X (2)	mm in.			142 5.59	147 5.79	37 1.46	162 6.38	92 3.62	77 3.03		3.8 kg 8.33 lb
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Specified weights are approximate values only.

Dimensions and weights

SCA-X/CHV-X 80 - 125 (3 - 5 in.)



Valve size	K	C	G	ØD	ØH	Weight
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SCA-X

SCA-X 80 SCA-X (3)	mm in.	76 3.00		388 15.28		90 3.54	58 2.28		129 5.08	9.7 kg 21.4 lb
SCA-X 100 SCA-X (4)	mm in.	90 3.54		437 17.20		106 4.17	58 2.28		156 6.14	15.3 kg 33.7 lb
SCA-X 125 SCA-X (5)	mm in.	90 3.54		533 20.98		128 5.04	74 2.91		193 7.60	28.1 kg 61.9 lb

Valve size	C	G	F _{min.}	ØH	Weight
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CHV-X Angleway

CHV-X 80 CHV-X (3)	mm in.		218.6 8.61		90 3.54		103.4 4.07	129 5.08	8.7 kg 19.23 lb
CHV-X 100 CHV-X (4)	mm in.		252.6 9.94		106 4.17		133.4 5.25	156 6.14	14.3 kg 31.60 lb
CHV-X 125 CHV-X (5)	mm in.		297.6 11.72		128 5.04		160.4 6.31	193 7.60	25.6 kg 56.58 lb

Valve size	C	B	E	G	F _{min.}	ØH	Weight
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CHV-X Straightway

CHV-X 80 CHV-X (3)	mm in.		206 8.11	204 8.03	48 1.89	216 8.50		133 5.24	129 5.08	9.3 kg 20.4 lb
CHV-X 100 CHV-X (4)	mm in.		256 10.08	248 9.76	62 2.44	264 10.39		163 6.43	156 6.14	14.6 kg 32.29 lb
CHV-X 125 CHV-X (5)	mm in.		314 12.36	302 11.89	74 2.91	322 12.68		190 7.48	193 7.60	32.5 kg 71.65 lb

Specified weights are approximate values only.

Ordering complete valves
How to order

The table below is used to identify the valve required.

For further information please contact your local Danfoss Sales Company.

Please note that the type codes only serve to identify the valves, some of which may not form part of the standard product range.

Valve type	SCA-X CHV-X	Check & stop valve Check Valve	A	SOC
(valve size measured on the connection diameter)	15 20 25 32 40 50 65 80 100 125	DN 15 DN 20 DN 25 DN 32 DN 40 DN 50 DN 65 DN 80 DN 100 DN 125	x x x x x x x x x x	x x x x x x x x x x
Connections	A SOC		Welding branches: ANSI B 31.5 schedule 80 DN 15 - 40 (½ - 1½ in.) Welding branches: ANSI B 31.5 schedule 40 DN 50 - 125 (2 - 5 in.) Socket weld: ANSI B 16.11	
Valve housing	ANG STR		Angle flow Straight flow	

Important!

Where products need to be certified according to specific certification societies the relevant information should be included at the time of order.

Angleway
SCA-X Butt-weld ANSI (B 36.10 Schedule 80)

Size	Type	Code No.
mm	in.	
15	½	SCA-X 15 A ANG
20	¾	SCA-X 20 A ANG
25	1	SCA-X 25 A ANG
32	1¼	SCA-X 32 A ANG
40	1½	SCA-X 40 A ANG

Angleway
CHV-X Butt-weld ANSI (B 36.10 Schedule 80)

Size	Type	Code No.
mm	in.	
15	½	CHV-X 15 A ANG
20	¾	CHV-X 20 A ANG
25	1	CHV-X 25 A ANG
32	1¼	CHV-X 32 A ANG
40	1½	CHV-X 40 A ANG

SCA-X Butt-weld ANSI (B 36.10 Schedule 40)

Size	Type	Code No.
mm	in.	
50	2	SCA-X 50 A ANG
65	2½	SCA-X 65 A ANG
80	3	SCA-X 80 A ANG
100	4	SCA-X 100 A ANG
125	5	SCA-X 125 A ANG

CHV-X Butt-weld ANSI (B 36.10 Schedule 40)

Size	Type	Code No.
mm	in.	
50	2	CHV-X 50 A ANG
65	2½	CHV-X 65 A ANG
80	3	CHV-X 80 A ANG
100	4	CHV-X 100 A ANG
125	5	CHV-X 125 A ANG

SCA-X Socket welding ANSI (B 16.11)

Size	Type	Code No.
mm	in.	
50	2	SCA-X 50 SOC ANG

CHV-X Socket welding ANSI (B 16.11)

Size	Type	Code No.
mm	in.	
32	1¼	CHV 32 SOC ANG
50	2	CHV 50 SOC ANG

ANG = Angleway

Ordering complete valves
(continued)
Straightway
CHV-X Butt-weld ANSI (B 36.10 Schedule 80)

Size		Type	Code No.
mm	in.		
15	½	CHV-X 15 A STR	148B6582
20	¾	CHV-X 20 A STR	148B6584
25	1	CHV-X 25 A STR	148B6586
32	1¼	CHV-X 32 A STR	148B6588
40	1½	CHV-X 40 A STR	148B6590

CHV-X Butt-weld ANSI (B 36.10 Schedule 40)

Size		Type	Code No.
mm	in.		
50	2	CHV-X 50 A STR	148B6592
65	2½	CHV-X 65 A STR	148B6594
80	3	CHV-X 80 A STR	148B6596
100	4	CHV-X 100 A STR	148B6598
125	5	CHV-X 125 A STR	148B6600

CHV-X Socket welding ANSI (B 16.11)

Size		Type	Code No.
mm	in.		
15	½	CHV-X 15 SOC STR	148B6601
20	¾	CHV-X 20 SOC STR	148B6602
25	1	CHV-X 25 SOC STR	148B6603
32	1¼	CHV-X 32 SOC STR	148B6604
40	1½	CHV-X 40 SOC STR	148B6605
50	2	CHV-X 50 SOC STR	148B6606

STR = Straightway

Ordering SCA-X from the parts programme
Example

(select from
table 1 and 2)

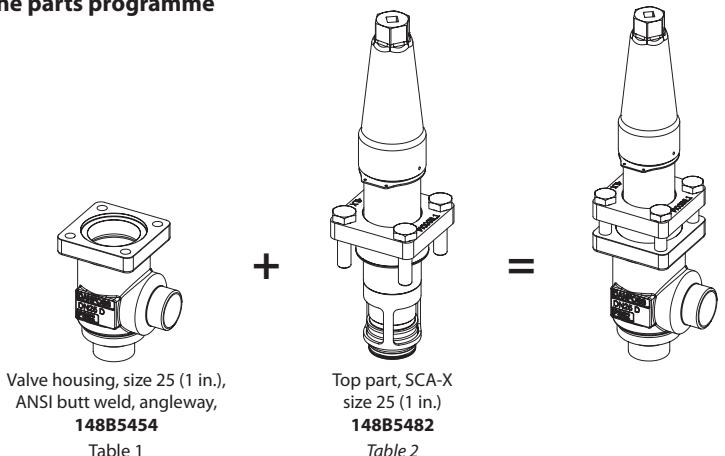
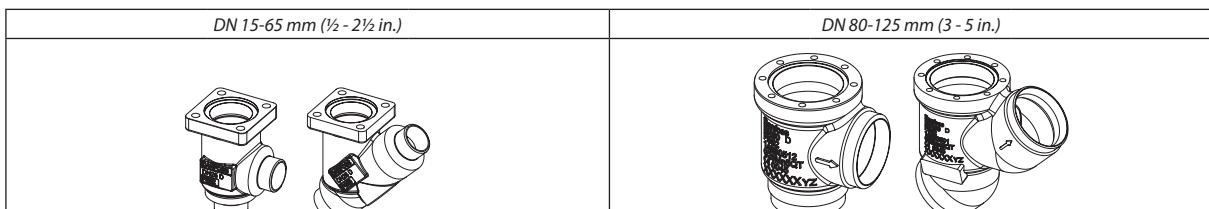


Table 1
SVL valve housings
w/different
connections



Sizes [DN]		Valve Housing SVL					
		ANSI-Butt weld		SOC		FPT	
mm	in.	ANG	STR	ANG	STR	ANG	STR
15	1/2	148B5254	148B5255	148B5256	148B5257	148B5258	148B5259
20	3/4	148B5354	148B5355	148B5356	148B5357	148B5358	148B5359
25	1	148B5454	148B5455	148B5456	148B5457	148B5458	148B5459
32	1 1/4	148B5578	148B5579	148B5580	148B5581	148B5582	148B5583
40	1 1/2	148B5654	148B5655	148B5656	148B5657		
50	2	148B5743	148B5744	148B5745	148B5746		
65	2 1/2	148B5818	148B5819				
80	3	148B5914	148B5915				
100	4	148B6016	148B6017				
125	5	148B6114	148B6115				

Table 2
SCA-X complete top part
including gaskets and
bolts

		SCA-X 15-50	SCA-X 80-125
Sizes [DN]		Complete top part	
mm	in.	SCA-X	
15	1/2		148B5282
20	3/4		
25	1		
32	1 1/4		148B5482
40	1 1/2		
50	2		148B5735
65	2 1/2		148B5825
80	3		148B5918
100	4		148B6019
125	5		148B6118

Replacement kit (O-ring replacement) for R717 Ammonia Heat Pump* and Propylene applications (including ID tag)

Size (DN)		O-ring kit for	
mm	in.	R717 Heat pump	R1270 Propylene
15	1/2	148B6070	148B6077
20	3/4		
25	1		
32	1 1/4	148B6071	148B6078
40	1 1/2		
50	2	148B6072	148B6079
65	2 1/2	148B6073	148B6080
80	3	148B6074	148B6081
100	4	148B6075	148B6082
125	5	148B6076	148B6083

* Replacement kits for R717 Ammonia Heat Pump is applicable for continuous operating temperature between +100°C to 150°C (212°F to 302°F)

Ordering CHV-X from the parts programme
Example

(select from
table 1 and 2)

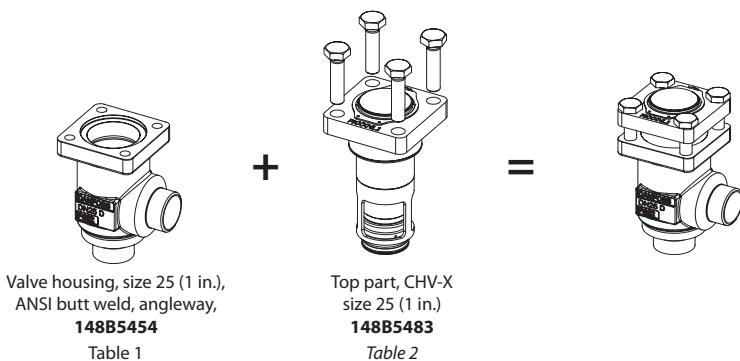


Table 1
SVL valve housings
w/different
connections

		DN 15-65 mm (1/2 - 2 1/2 in.)				DN 80-125 mm (3 - 5 in.)			
Sizes [DN]		Valve Housing SVL							
mm	in.	ANSI-Butt weld		SOC		FPT			
15	1/2	148B5254		148B5255		148B5256		148B5257	
20	3/4	148B5354		148B5355		148B5356		148B5357	
25	1	148B5454		148B5455		148B5456		148B5457	
32	1 1/4	148B5578		148B5579		148B5580		148B5581	
40	1 1/2	148B5654		148B5655		148B5656		148B5657	
50	2	148B5743		148B5744		148B5745		148B5746	
65	2 1/2	148B5818		148B5819					
80	3	148B5914		148B5915					
100	4	148B6016		148B6017					
125	5	148B6114		148B6115					

Table 2
CHV-X complete top part
including gaskets and
bolts

		CHV-X 15-50	CHV-X 80-125
Sizes [DN]		Complete top part	
mm	in.	CHV-X	
15	1/2	148B5283	
20	3/4	148B5483	
25	1	148B5483	
32	1 1/4	148B5483	
40	1 1/2	148B5747	
50	2	148B5827	
65	2 1/2	148B5919	
80	3	148B6022	
100	4	148B6119	
125	5	148B6119	

Replacement kit (O-ring replacement) for R717 Ammonia Heat Pump* and Propylene applications (including ID tag)

Size (DN)		O-ring kit for	
mm	in.	R717 Heat pump	R1270 Propylene
15	1/2	148B6070	148B6077
20	3/4		
25	1		
32	1 1/4	148B6071	148B6078
40	1 1/2		
50	2	148B6072	148B6079
65	2 1/2	148B6073	148B6080
80	3	148B6074	148B6081
100	4	148B6075	148B6082
125	5	148B6076	148B6083

* Replacement kits for R717 Ammonia Heat Pump is applicable for continuous operating temperature between +100°C to 150°C (212°F to 302°F)



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