



Expansion valves series SXV

Bipolar stepper expansion valves



- > Complete EEV system with drivers and controllers
- > Bi-directional operation for the whole series
- > Wide range of models and sizes available

EEV System

The new stepper electronic bipolar and unipolar expansion valves

- Controlled by XVD / XVD Open / V900 / V910 / RTX600 /VS (body 1 and 2 only) Eliwell drivers and controllers
- · Optimise the injection of refrigerant into the evaporator, increasing efficiency of the system
- Improve superheating control in response to different operating conditions
- Compatible with the majority of refrigerant gases on the market
- Continuous control of refrigerant flow
- Bi-directional operation for a simple and flexible use

Bipolar expansion valve SXVB series

The SXVB expansion valve regulates the flow of refrigerant to the evaporator by proportionally modulating its opening and closing, allowing a wide range of capacity variation.

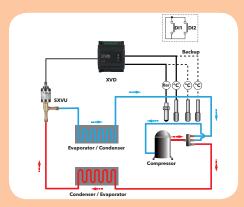
The extremely precise and reliable control of refrigerant flow increases the efficiency of the complete system.

The SXVB valve is controlled by an Eliwell XVD or V900/V910 driver.

The SXVB valve (body 1 and 2) is also controlled by an Eliwell RTX600 /VS controller.

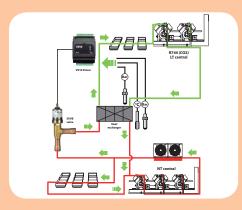
There are four valve bodies and ten orifices to satisfy a capacity range from 10.7 kW (R404) to 257 kW (R410A).

It is typically used in HVAC/R systems that utilize HFC and HFO refrigerant fluids.



HVAC application example

- Bipolar SXVB valve controlled by an XVD / XVD Open / V910 Eliwell driver
- Optimises the injection of refrigerant into the evaporator, increasing its efficiency
- Improves superheating control in response to different operating conditions
- Compatible with the majority of refrigerant gases on the market
- Continuous control of refrigerant flow



Application example of BT/TN system CF

- Bipolar SXVB body4 valve controlled by an XVD / XVD Open / V910 Eliwell driver
- 360° mounting position
- Linear control of refrigerant flow
- Fast response to control the superheating at different operating conditions
- Optimises the injection of refrigerant into the evaporator, increasing its efficiency



Application example of canalised CR Supermarket Counter

- Bipolar SXVB valve body 1, 2
- Integrated solution to increase efficiency
- Better control of energy consumption
- Controller RTX600 /VS EO for counters
- KDEPlus terminal
- RS485 supervision network
- Link² network for synchronizing defrost events and lights

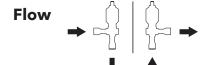
Bipolar SXVB



Type of actuator		Bipolar ste	pper motor			
Type of control	Full Step					
Stroke / Steps for complete closing	Body 1 10.5 mm 415 steps		, 2, 3 mm steps	Body 4 12.5 mm 985 steps		
Rated conditions (R410A refrigerant gas)	dependir	from 4 to 260 ng on the refriger		direction		
Rated power operating conditions evaporation temperature = +5 °C condensation temperature = +38 °C condensation temperature = +38 °C condensation temperature = +30 °C superheating = 0 °C superheating = 0 °C						
Adjustment range			95%			
Refrigerant gases	HFC, HF	O Contact Sales		nd R744		
MOPD		see cooling o	capacity table			
Maximum operating pressure		45	bar			
TS temperature		-40 -	+105°C			
Protection		IP	67			
Driver	Eliwell XVD, Eliwell V900, Eliwell V910 Eliwell RTX /VS body 1, 2					
Connections and geometry		braze welde	d tube, angle			
Operation		Bidire	ctional			
Sight glass	not available					
Possible mounting	360°					
Motor	Body 1 integrated	Body 2,3 for inspection		Body 4 for inspection		
Step angle	Body 1 7.5°± 15%	Body 2,3 15°± 15%		Body 4 7.5°± 15%		
Step	Body 1 0.0254 mm	0.042		Body 4 0.0127 mm		
Rated speed	Body 1 35 steps/s max	Bod 20 step	Body 4 70 steps/s ma			
Allowed driving		100% Du	uty Cycle			
Nr. of cycles tested between 10% and 95% of effective stroke		~5 millio	on cycles			
Maximum overstroke steps	Body 1 100 steps					
Rated voltage	100 steps 60 steps 150 st 24V					
Rated phase current	Body 1 200 (350 inrush) mA	Body 2,3 200 (300 inrush) mA		Body 4 560 mA		
Max winding resistance	35 Ω	54 Ω	54 Ω	35 Ω		
Holding current	50 mA	50 mA	50 mA	50 mA		

SXVB Capacity and dimensions

No	COOLING CAPACITY in kW												
SXVB2611500100						Refrigerant cooling capacity (kW**)							
SXVB261150030 SXVB261150040 SXVB261150040 SXVB26115M100 SXVB26115M100 SXVB26115M100 SXVB26115M100 SXVB26115M100 SXVB26115M120 SXVB261200030 SXVB261200040 SXVB2612000	Code	body			MOPD (bar)	,	Analogue	R134a	R407C	R404A	R507A	R410A	
SXVB261150040	CVVD2411E0020			2 /0"	35	\rightarrow	Radial	13.2	13.6	10.7	10.7	17.5	
1.5 1.5	3AVB201130030			3/0	35	1	Axial	12.6	12.6	10.2	9.7	16.5	
1.5	CVV/D2/11F0040			1/2"	35	\rightarrow	Radial	13.2	13.6	10.7	10.7	17.5	
SXVB26115M100 10mm 35 → Radial 13.2 13.6 10.7 10.7 17.5 SXVB26115M120 12mm 35 → Radial 12.6 10.2 9.7 16.5 SXVB261200030 35 ↑ Axial 12.6 10.2 9.7 16.5 SXVB261200040 36 ↑ Axial 12.6 10.2 9.7 16.5 27.2 SXVB261200040 38 ↑ Axial 18.4 19.4 21.3 16.5 16.5 27.2 SXVB26120M100 17.2 35 ↑ Axial 18.4 19.4 21.3 16.5 16.5 27.2 SXVB26120M120 10mm 35 ↑ Axial 18.4 19.4 21.3 16.5 16.5 27.2 SXVB261270030 2xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	5AVB261130040		1 -		35	1	Axial	12.6	12.6	10.2	9.7	16.5	
SXVB26115M120	CV//D2/11FN1100		1.5	10	35	\rightarrow	Radial	13.2	13.6	10.7	10.7	17.5	
12mm 35	2XVB26112M100			TUMM	35	1	Axial	12.6	12.6	10.2	9.7	16.5	
SXVB261200030 SXVB261200040 1	CV//DO/44EN4400			40	35	\rightarrow	Radial	13.2	13.6	10.7	10.7	17.5	
SXVB261200040 SXVB261200040 SXVB26120M100 SXVB26120M100 SXVB26120M100 SXVB26120M100 SXVB26120M100 SXVB261270030 SXVB261270030 SXVB261270040 SXVB261270040 SXVB261270040 SXVB26127M100 SXVB26127M100 SXVB26127M100 SXVB26127M100 SXVB26127M100 SXVB26127M100 SXVB26127M100 SXVB26127M100 SXVB262270040 SXVB262270040 SXVB262270040 SXVB262270040 SXVB262270040 SXVB262270050 SXVB262270050 SXVB262270040 SXVB262270050 SXVB262270040 SXVB262270050 SXVB262270040 SXVB262270050 SXVB262270050 SXVB262270050 SXVB262270040 SXVB262270050 SXVB262270050 SXVB262270040 SXVB262270040 SXVB262270050 SXVB2622700	SXVB26115W112U			12mm	35	1	Axial	12.6	12.6	10.2	9.7	16.5	
SXVB261200040 1 2.0 1/2" 35 ↑ Axial 18.4 19.4 15.0 14.6 24.7 SXVB26120M100 1/2" 35 ↑ Axial 18.4 19.4 21.3 16.5 16.5 27.2 SXVB26120M120 10mm 35 ↑ Axial 18.4 19.4 21.3 16.5 16.5 27.2 SXVB261270030 12mm 35 ↑ Axial 18.4 19.4 15.0 14.6 24.7 SXVB261270040 12mm 35 ↑ Axial 18.4 19.4 15.0 14.6 24.7 SXVB261270040 12mm 35 ↑ Axial 18.4 19.4 15.0 14.6 24.7 SXVB26127M100 14.6 24.7 27.2 21.3 21.3 34.4 SXVB26127M120 11/2" 35 ↑ Axial 23.3 24.7 19.4 18.4 31.0 SXVB262270040 12mm 35 ↑ Axial 23.3 24.7 19.4 18.4 31.0 SXVB262270040 12mm 35 ↑ Axial 23.3 <td>C) () (D O (4 O O O O O O</td> <td></td> <td></td> <td>2 (0 !!</td> <td>35</td> <td>\rightarrow</td> <td>Radial</td> <td>19.4</td> <td>21.3</td> <td>16.5</td> <td>16.5</td> <td>27.2</td>	C) () (D O (4 O O O O O O			2 (0 !!	35	\rightarrow	Radial	19.4	21.3	16.5	16.5	27.2	
1	SXVB261200030			3/8"	35	1	Axial	18.4	19.4	15.0	14.6	24.7	
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SXVB262320040 2 1/2" 40 ↑ Axial 23.3 35.9 24.1 24.6 42.7 2 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 5/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 3.2 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1		-									24.6		
SXVB262320040 1/2" 40 → Radial 34.0 50.4 35.5 34.8 60.1 SXVB262320050 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 SXVB262320070 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 Avial 32.0 47.5 33.5 32.7 56.3 Avial 34.0 50.4 35.5 34.8 60.1 Avial 32.0 47.5 33.5 32.7 56.3 Avial 40 ↑ Axial 34.0 50.4	SXVB26227M120			12mm									
SXVB262320040 SXVB262320050 SXVB262320070 3.2 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 7/8" 40 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 Axial 32.0 47.5 33.5 32.7 56.3 56.3 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 34.8 60.1 40 ↑ Axial 34.0 35.5 34.8 60.1 40 ↑ Axial 34.8 60.1 35.5 <td< td=""><td>CV//D2/22222242</td><td>2</td><td rowspan="5">1/2" 5/8"</td><td>1 /0"</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	CV//D2/22222242	2	1/2" 5/8"	1 /0"									
SXVB262320050 3.2 SXVB262320070 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 7/8" 40 ↑ Radial 34.0 50.4 35.5 34.8 60.1 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 SXV/B26232M120 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 SXV/B26232M120 40 ↑ Radial 34.0 50.4 35.5 34.8 60.1	5XVBZ6Z3Z0U40]			1								
3.2	SXVB262320050			5/8"	40	\rightarrow	Radial	34.0	50.4	35.5	34.8	60.1	
SXVB262320070 7/8" 40 → Radial 34.0 50.4 35.5 34.8 60.1 40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 SXVB26232M120 12mm 40 → Radial 34.0 50.4 35.5 34.8 60.1					-								
40 ↑ Axial 32.0 47.5 33.5 32.7 56.3 SXV/R26232M120	SXVB262320070			7/8"									
		-				-							
40 f AXIaI 32.0 47.3 33.5 32.7 56.3	SXVB26232M120	26232M120 12r	12mm										
					40	ı	Axiai	32.0	47.3	33.3	32./	30.3	



Rated cooling capacities refer to:

- Evaporation temperature Tevap = +5°C
- Condensation temperature Tcond = +38°C Sub-cooling 0 °C, Superheating 0 °C

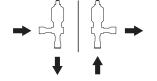
SXVB Capacity and dimensions

COOLING CAPACITY in kW											
				Refrigerant cooling capacity (kW**)							
Code	body	Orifice (mm)	ODS connections	MOPD (bar)		Analogue	R134a	R407C	R404A	R507A	R410A
SXVB263360070			7/8"	35	\rightarrow	Radial	48.5	70.3	49.5	49.5	84.2
3/\VB203300070		3.6	770	35	1	Axial	36.6	66.3	46.3	46.1	78.2
SXVB263360090		3.0	1 1/8"	35	\rightarrow	Radial	48.5	70.3	49.5	49.5	84.2
3/(VD203300070				35	1	Axial	36.6	66.3	46.3	46.1	78.2
SXVB263400070			7/8"	30	\rightarrow	Radial	58.4	85.1	59.5	58.8	102.0
3/(VD203400070	3	4.0	770	30	1	Axial	45.5	80.2	55.4	54.7	95.0
SXVB263400090		4.0	1 1/8"	30	\rightarrow	Radial	58.4	85.1	59.5	58.8	102.0
3/10/203400070			1	30	1	Axial	45.5	80.2	55.4	54.7	95.0
SXVB263440070			7/8"	25	\rightarrow	Radial	71.3	103.0	72.3	72.0	122.8
3AVDZ03440070		4.4	//8	25	1	Axial	54.5	96.0	67.3	66.5	113.9
SXVB263440090		4.4	1 1/8"	25	\rightarrow	Radial	71.3	103.0	72.3	72.0	122.8
3/10/203440070			1	25	1	Axial	54.5	96.0	67.3	66.5	113.9
SXVB264560070			7/8"	30	\rightarrow	Radial	104.0	131.2	102.0	101.0	166.3
3/\VD204300070				30	1	Axial	104.0	131.2	102.0	101.0	166.3
SXVB264560090			1 1/8"	30	\rightarrow	Radial	104.0	131.2	102.0	101.0	166.3
3/(10/20+300070		5.6	'	30	1	Axial	104.0	131.2	102.0	101.0	166.3
SXVB264560110		3.0	1 3/8"	30	→	Radial	104.0	131.2	102.0	101.0	166.3
			·	30	1	Axial	104.0	131.2	102.0	101.0	166.3
SXVB26456M280			28mm	30	→	Radial	104.0	131.2	102.0	101.0	166.3
3/(1020 100111200			2011111	30	1	Axial	104.0	131.2	102.0	101.0	166.3
SXVB264650070			7/8"	30	→	Radial	132.7	167.3	129.7	127.7	211.9
07175201000070			1 1/8"	30	1	Axial	132.7	167.3	129.7	127.7	211.9
SXVB264650090				30	→ •	Radial	132.7	167.3	129.7	127.7	211.9
	4	6.5		30	1	Axial	132.7	167.3	129.7	127.7	211.9
SXVB264650110			1 3/8"	30	→ ^	Radial	132.7	167.3	129.7	127.7	211.9
		28mm		30	1	Axial	132.7	167.3	129.7	127.7	211.9
SXVB26465M280			28mm	30	→ •	Radial	132.7	167.3	129.7	127.7	211.9
	-		30	1	Axial	132.7	167.3	129.7	127.7	211.9	
SXVB264750070		7.5	7/8"	30	→ •	Radial	159.4	203.0	156.4	155.4	257.4
	-		1 1/8"	30	↑ →	Axial	159.4	203.0	156.4	155.4	257.4 257.4
SXVB264750090				30 30	→ ↑	Radial	159.4 159.4	203.0 203.0	156.4 156.4	155.4 155.4	257.4
	-			30	T →	Axial Radial	159.4	203.0	156.4	155.4	257.4
SXVB264750110			1 3/8"	30	↑	Axial	159.4	203.0	156.4	155.4	257.4
	1			30	→ T	Radial	159.4	203.0	156.4	155.4	257.4
SXVB26475M280	28mm	28mm	30	1	Axial	159.4	203.0	156.4	155.4	257.4	
				30		Axidi	137.4	203.0	130.4	155.4	237.4

^{**}Rated cooling capacities refer to:

Contact Technical Support for more refrigerants cooling capacity.

Flow



Rated cooling capacities refer to:

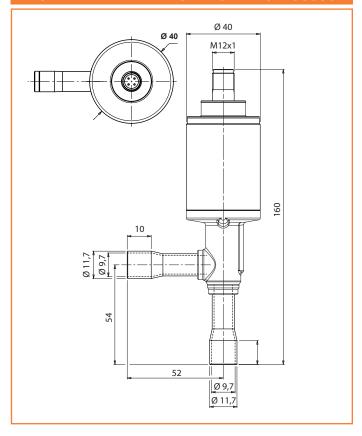
- Evaporation temperature Tevap = +5°C
- Condensation temperature Tcond = +38°C
- Sub-cooling 0 °C,
- Superheating 0 °C

^{*} Evaporation temperature Tevap = +5°C, Condensation temperature Tcond = +38°C

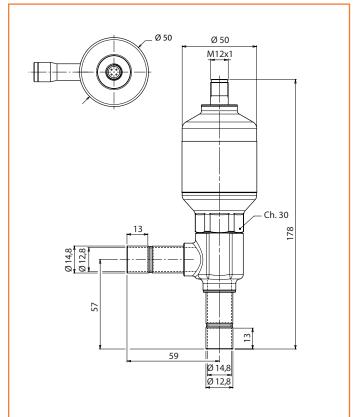
^{*} Sub-cooling 0 °C, Superheating 0 °C

SXVB dimensions

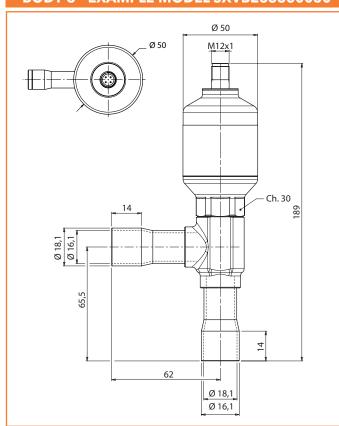
BODY 1 - EXAMPLE MODEL SXVB261150030



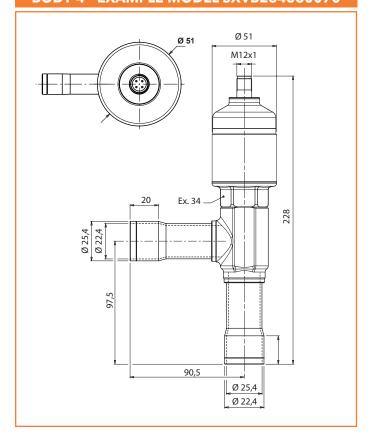
BODY 2 - EXAMPLE MODEL SXVB262270040



BODY 3 - EXAMPLE MODEL SXVB263360050

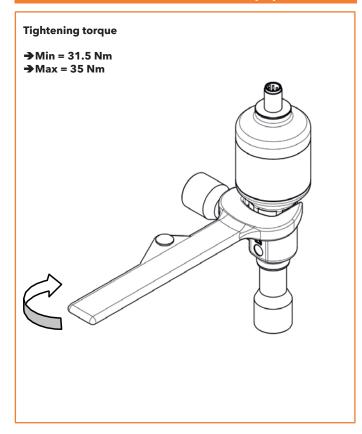


BODY 4 - EXAMPLE MODEL SXVB264560070



SXVB connector and cable

TORQUE VALUE BODY 2, 3, 4



CONNECTORS





no.	colour
1	Brown
2	White
3	Blue
4	Black

VALVE	CABLE
CONNECTOR	CONNECTOR

SXVB CABLE					
Code	cable				
SXVB2624VC300	3m CABLE				
SXVB2624VC015	15m CABLE				



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