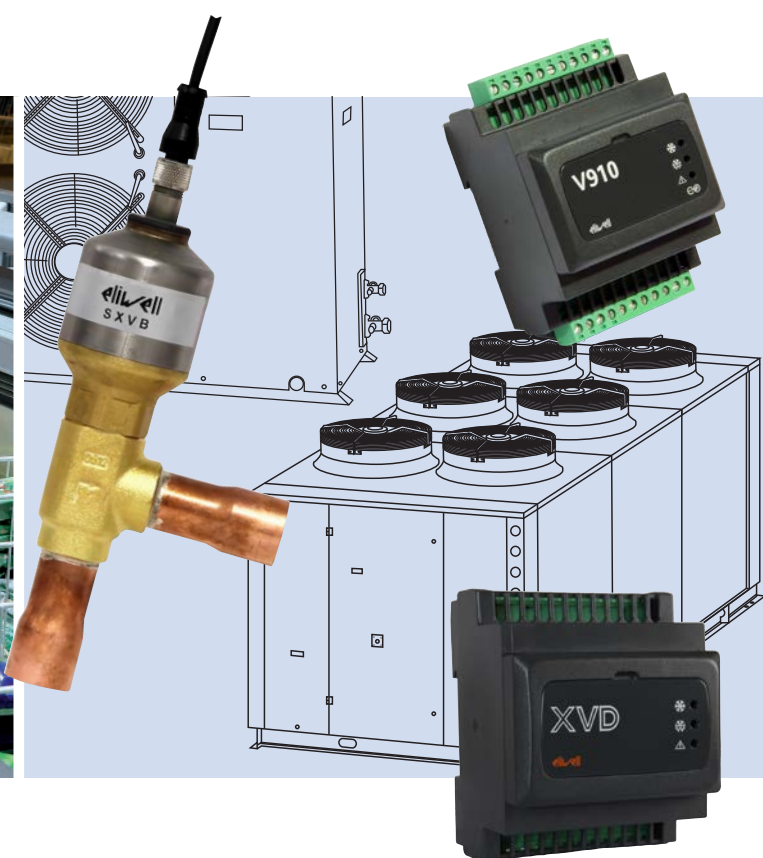


# SXVB

The new bipolar stepper electronic expansion valve



REFRIGERATION SYSTEMS



## Features

- Controllable by Eliwell XVD / V910 drivers
- Optimises the injection of refrigerant fluid into the evaporator, thereby increasing its efficiency
- Improves superheating control in response to varying operating conditions
- Compatible with the majority of refrigerants on the market
- Continuous refrigerant flow control



# Bipolar stepper expansion valve

The SXVB expansion valve controls the flow of refrigerant to the evaporator by modulating its aperture, to allow a wide range of power variation.

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

Available in four sizes for power ratings from 30 kW to 130 kW.

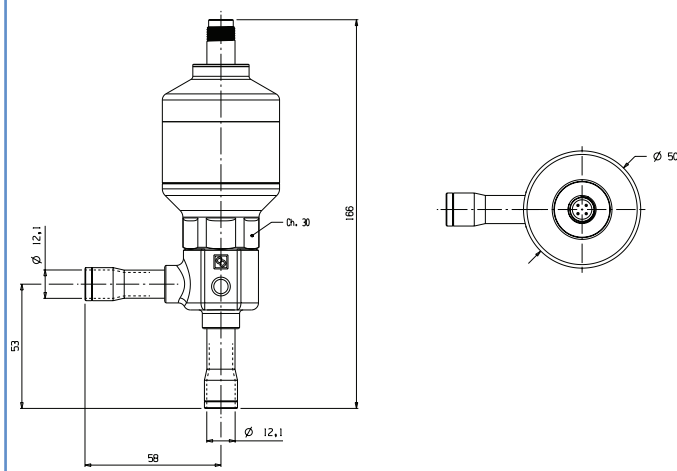
## Electrical data

Stepper motor	Bipolar motor
Stepper mode	Full step control
Speed	0-20 [mm/s] (max 500 steps/s) Recommended 4.2 [mm/s] (100 steps/s...)
Maximum duty cycle	100 % on/off
Insulation class	B 130°C
Protection	DIN 40050, IP65
Rated Voltage	24V

## Technical data

Steps of between 10 % and 95 % of effective stroke	>500 million steps
N° of cycles tested between 10 % and 95 % of effective stroke	~5 million cycles
Maximum overstroke steps	150,000 overstroke cycles of 190 steps each
Compatibility	HFC, HCFC
MOPD	35 bar
PS	45 bar
TS	-40 / +120 °C
Ambient temperature	-20 / +50 °C
Connection protection M12	IP 67
Operation	Bidirectional
Possible operating angles	360°

## Dimensions (SXVB 2623 12mm model)



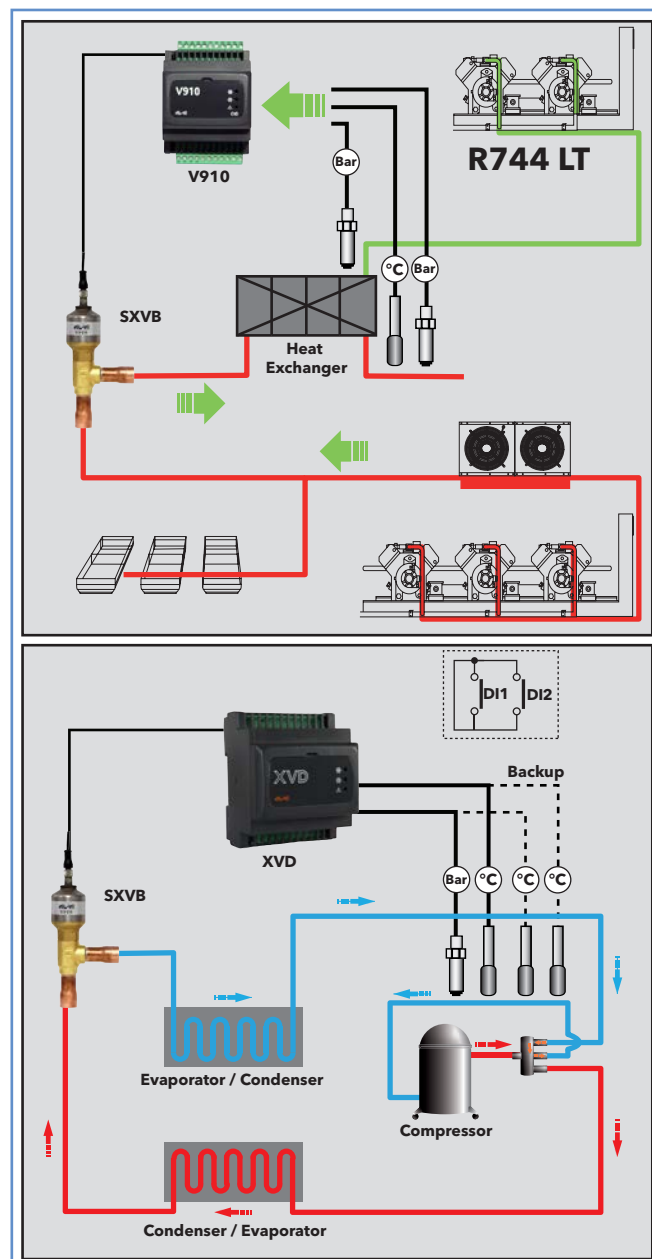
The power ratings relate to:

- Evaporation temperature  $T_{evap} = +5\text{ °C}$
  - Condensation temperature  $T_{cond} = +32\text{ °C}$
  - Supercooling temperature = +4 °C
  - Superheating temperature = +7 °C
- with valve fully open.

The SXVB valve is controlled by an XVD or V910 Driver. It is typically used in HVAC/R systems that use the following refrigerants: R134a, R404A, R407C, R410A, R507, R22.

## Application Examples

- SXVB valve
- V910 and CO<sub>2</sub> cascade system
- XVD



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