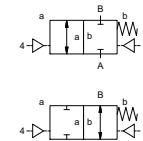


**5-VSV-M 50**  
**5-VSV-F 50**

valve type with pilot valve


**coaxial valve**
**type** **VSV-M 50**  
**VSV-F 50**

<b>2/2 way valve</b>	<b>externally controlled</b>
<b>pressure range</b>	PN 0-40 bar
<b>orifice</b>	DN 50 mm
<b>connection</b>	thread/flange
<b>function</b>	valve normally closed symbol NC
	valve normally open symbol NO



 Above stated body materials refer to the valve port connections that get in contact with the media only!

<b>design</b>	pressure balanced, with spring return
<b>body materials</b>	① ③ ④ steel, nickel plated ② steel, galvanized ⑤ without non-ferr. metals ⑥ stainless steel
<b>valve seat</b>	synthetic resin on metal
<b>seal materials</b>	NBR PTFE, FPM, CR, EPDM

**details needed for main valve**

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

**details needed for pneumatic actuation**

- nominal voltage
- type of protection
- actuation pressure range min/max
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

**details needed for hydraulic actuation**

- actuation pressure range min/max
- hydraulic control valve function

**general specifications**

<b>ports</b>	VSV-M threads G 2	special threads
	VSV-F flanges PN 16 / 40	special flanges
<b>function</b>	NC	NO
<b>pressure range</b>	bar 0-16 / 0-40	
<b>Kv value</b>	m³/h 43,0	
<b>vacuum</b>	leak rate < 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>	
<b>pressure-vacuum</b>	P <sub>1</sub> ↔ P <sub>2</sub>	pressure side max. 40 bar vacuum side leak rate upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	available (max. 16 bar)
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
<b>abrasive media damping</b>		version available
<b>flow direction</b>	opening	
<b>switching cycles</b>	closing by throttles on pilot valve	bi-directional upon request
<b>switching time</b>	A → B as marked	
<b>media temperature</b>	1/min 100	
<b>ambient temperature</b>	ms opening 150-3000 closing 150-3000	remote mounted pilot valve outside temperature range of media max. 160 °C
<b>flush ports</b>	°C direct mounted pilot valve 60	available
<b>leak ports</b>	°C direct mounted pilot valve 50	available
<b>limit switches</b>		inductive / mechanical upon request
<b>manual override</b>	via pilot valve	
<b>approvals</b>		LR/GL/WAZ
<b>mounting</b>		mounting brackets
<b>weight</b>	kg VSV-M 11,9 VSV-F 18,2	upon request
<b>additional equipment</b>		

 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

**electrical specifications**

<b>nominal voltage</b>	U <sub>n</sub> DC 24 V	special voltage upon request
	U <sub>n</sub> AC 230 V 50 Hz	special voltage upon request
<b>power consumption</b>	DC 4,8 W	2,5 W
<b>protection</b>	AC pick up 11,0 VA holding 8,5 VA	
<b>energized duty rating</b>	IP65 (P54) acc. DIN 40050	
<b>connection</b>	ED 100%	
<b>optional</b>	plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
<b>additional equipment</b>	M12x1 connector acc. DESINA	connector acc. VDMA
<b>max. temperature</b>	illuminated plug with varistor	
<b>explosion proof</b>	media 60°C	
	ambient 50°C	
	E Ex e II T5 nominal voltage U <sub>n</sub>	DC 24 V 3,25 W
	power consumption	AC 230 V 50 Hz 2,90 W

**pneumatic specifications**

<b>actuation pressure range</b>	bar 4-10	
<b>air consumption</b>	cm <sup>3</sup> /stroke 55	
<b>cycle speed</b>	main valve speed variable by throttles on pilot valve	
<b>control</b>	preferably 5/2 way pilot valve	
<b>pilot valve interface</b>	co-ax / Namur	ISO 1
<b>actuator ports</b>	2/4 G 1/8	G 1/4

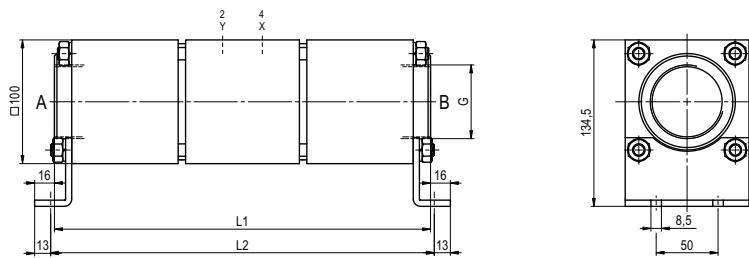
**hydraulic specifications**

<b>actuation pressure range</b>	bar 10-30 / 30-60	
<b>control</b>	preferably 4/2 way control valve	
<b>actuator ports</b>	X/Y G 1/4	NPT 1/4

■ specifications not highlighted are standard  
specifications highlighted in grey are optional

## type VSV-M 50

function: **NC**  
closed when not energized

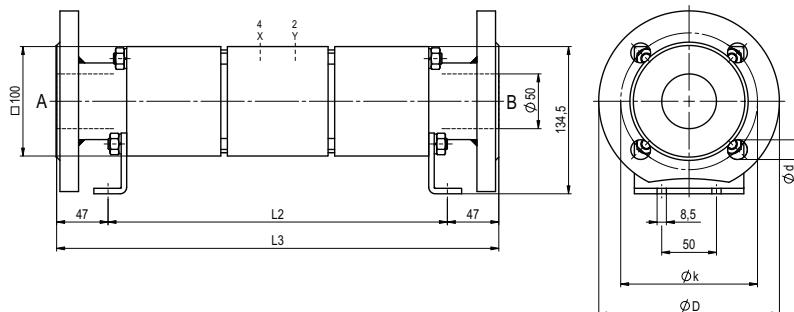


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	304	310	404
with 1/2 inductive limit switches	330	336	430
with force-feed lubrication nipple	322	328	422
with mechanical limit switches	344	350	444

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	165	125	18
40	EN 1092-1	165	125	18

## type VSV-F 50

function: **NO**  
open when not energized



### pneumatic actuation

