

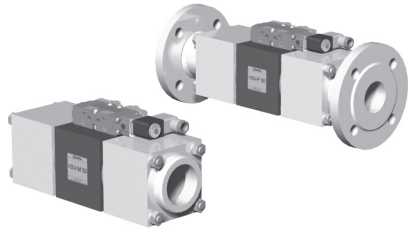
5-VSV-M 50

5-VSV-F 50

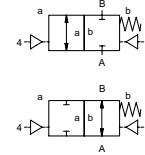
valve type with pilot valve


coaxial valve

type **VSV-M 50**
VSV-F 50



2/2 way valve externally controlled
pressure range PN 0-40 bar
orifice DN 50 mm
connection thread/flange
function 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!

design pressure balanced, with spring return
body materials ① ② steel, galvanized
 ③ ⑤ without non-ferr. metals
 ④ steel, nickel plated ⑥ stainless steel
valve seat synthetic resin on metal
seal materials 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

 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.

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

general specifications

ports	VSV-M threads G 2 VSV-F flanges PN 16/40	options special threads special flanges
function	NC	NO
pressure range	bar 0-16/0-40	
Kv value	m ³ /h 43,0	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ↔ P ₂ pressure side max. 40 bar vacuum side leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
back pressure	P ₂ > P ₁ available (max. 16 bar)	
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
abrasive media		version available
damping	opening by throttles on pilot valve	
flow direction	A ↔ B as marked	bi-directional upon request
switching cycles	1/min 100	
switching time	ms opening 150-3000 closing 150-3000	
media temperature	°C direct mounted pilot valve 60	remote mounted pilot valve outside temper-
ambient temperature	°C direct mounted pilot valve 50	ature range of media max.160°C
flush ports		available
leak ports		available
limit switches		inductive/mechanical upon request
manual override	via pilot valve	
approvals		LR/GL/WAZ
mounting		mounting brackets
weight	kg VSV-M 11,9 VSV-F 18,2	
additional equipment		upon request

electrical specifications

nominal voltage	U _n DC 24V U _n AC 230V 50 Hz	options special voltage upon request special voltage upon request
power consumption	DC 4,8 W AC pick up 11,0 VA holding 8,5 VA	2,5 W
protection	IP 65 (P54) acc. DIN 40 050	
energized duty rating	ED 100%	
connection	plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm	
additional equipment	illuminated plug with varistor	
optional	M12x1 connector acc. DESINA	connector acc. VDMA
max. temperature	media 60°C ambient 50°C	
explosion proof	EEx m II T5 nominal voltage U _n power consumption	direct current 24 V 3,25 W alternating current 230 V 50 Hz 2,90 W

pneumatic specifications

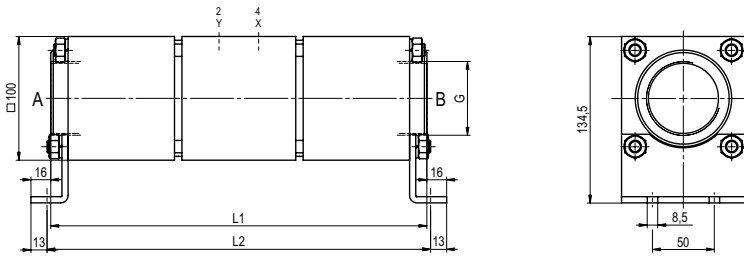
actuation pressure range	bar 4-10	options
air consumption	cm ³ /stroke 55	
cycle speed	main valve speed variable by throttles on pilot valve	
control	preferably 5/2-way pilot valve	
pilot valve interface	co-ax / NAMUR	ISO 1
actuator ports	2/4 G 1/8	G 1/4

hydraulic specifications

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

type VSV-M 50

function: **NC**
closed when not energized

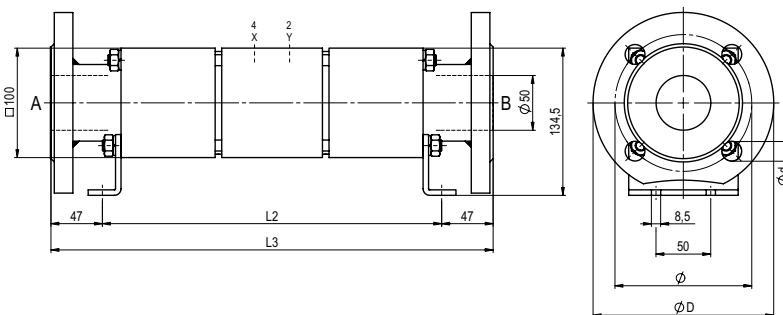


constructive length	L1	L2	L3
standard	304	310	404
with 1/2 inductive limit switches	330	336	430
with force-feed lubrication nipple	322	328	422
with mechanical limit switches	344	350	444

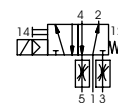
flanges PN	DIN	øD	øk	ød
16	2633	165	125	18
40	2635	165	125	18

type VSV-F 50

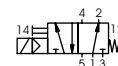
function: **NO**
open when not energized



pneumatic actuation (separately)



5/2-way-pilot valve
flow rate 700 l/min
pressure range 3-10 bar G 1/8



5/2-way-pilot valve ISO 1
flow rate 700 l/min
pressure range 3-10 bar G 1/4

The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

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