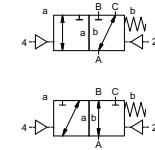


5-VSV-M 40 DR
5-VSV-F 40 DR
 valve type with pilot valve



coaxial valve
type VSV-M 40 DR
VSV-F 40 DR

3/2 way valve	externally controlled
pressure range	PN 0-40 bar
orifice	DN 40 mm
connection	thread/flange
function	valve normally closed (A ► B) symbol NC
	valve normally open (A ► B) 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, switching overlap
body materials	① ② steel, galvanized ③ ④ steel, nickel plated ⑤ without non-ferr. metals 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
- inlet pressure at A, B or C
- 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		options
ports	VSV-M threads G 1 1/2 - G 2	special threads
	VSV-F flanges PN 16 / 40	special flanges
function	NC	NO
pressure range	bar 0-16 / 0-40	A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40
Kv value	m³/h 29,1	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ⇌ P ₂	pressure side max. 40 bar vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range
media		gaseous - liquid - highly viscous - gelatinous - pasty - contaminated
abrasive media		version available
damping		
flow direction	opening	see pressure range
switching cycles	closing	by throttles on pilot valve
switching time	1/min 150	
media temperature	ms opening 100-3000 closing 100-3000	remote mounted pilot valve outside temperature range of media max. 160 °C
ambient temperature	°C direct mounted pilot valve 60	
flush ports	°C direct mounted pilot valve 50	available
leak ports		available
limit switches		inductive / mechanical upon request
manual override		
approvals	via pilot valve	LR/GL/WAZ
mounting		mounting brackets
weight	kg VSV-M 8,9 VSV-F 11,6	upon request
additional equipment		

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

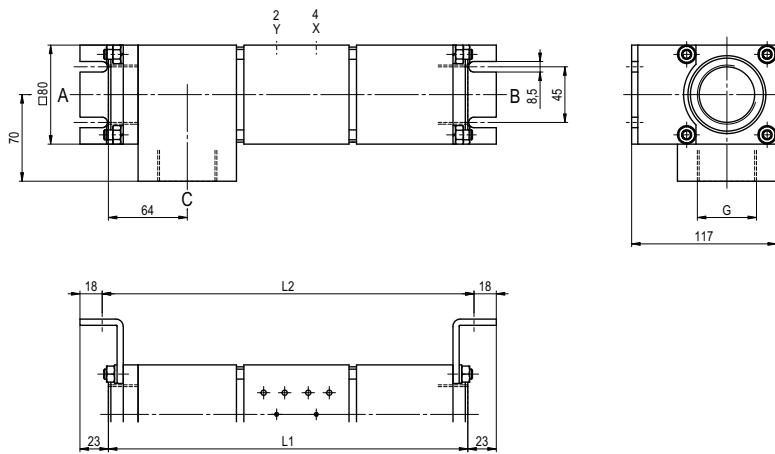
pneumatic specifications		options
actuation pressure range	bar 4-10	
air consumption	cm ³ /stroke 34	
cycle speed		main valve speed variable by throttles on pilot valve
control		preferably 5/2 way pilot valve
pilot valve interface	co-ax / NAMUR	ISO 1
actuator ports	2/4 G 1/8	G 1/4

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

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

type VSV-M 40 DR

function: **NC**
closed when not energized (A ▶ B)

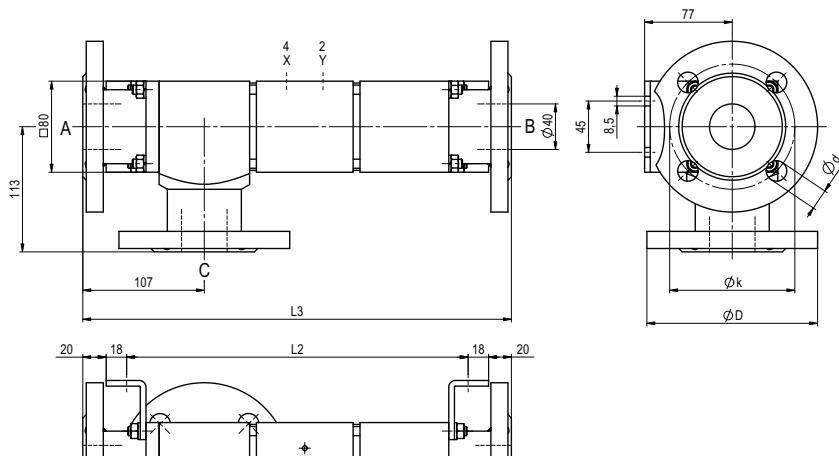


constructive length	L ₁	L ₂	L ₃
standard	291	301	377
with 1/2 inductive limit switches	338	348	424
with force-feed lubrication nipple	-	-	-
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	150	110	18
40	EN 1092-1	150	110	18

type VSV-F 40 DR

function: **NO**
open when not energized (A ▶ B)



pneumatic actuation

