

type VSV-M 50 DR
VSV-F 50 DR

08/2021



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

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
- 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

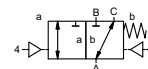
3/2 way valve

pressure range
orifice
connection
function

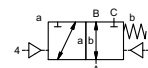
externally controlled

PN 0-40 bar
DN 50 mm
thread/flange

valve normally closed (A ► B)
symbol **NC**



valve normally open (A ► B)
symbol **NO**



design

body materials

pressure balanced, with spring return, intersecting switch-over

- 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

ports

general specifications

options

function
pressure range

VSV-M threads G 2
VSV-F flanges PN 16 / 40
NC
0-16 / 0-40
A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40

special threads
special flanges
NO

Kv value
vacuum
pressure-vacuum

m³/h 43,0
leak rate < 10⁻⁶ mbar•L•s⁻¹
P₁ ⇔ P₂ pressure side max. 40 bar
vacuum side leak rate upon request

back pressure
media

P₂ > P₁ see pressure range
gaseous - liquid - highly viscous -
gelatinous - pasty - contaminated

abrasive media
damping

available
opening by throttles on pilot valve
closing see pressure range

flow direction
switching cycles
switching time

1/min 100
ms opening 150-3000
closing 150-3000

media temperature
ambient temperature

°C direct mounted pilot valve 60 remote mounted pilot valve outside
°C direct mounted pilot valve 50 temperatur 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
additional equipment

kg VSV-M 19,2 VSV-F 23,6
upon request

nominal voltage

electrical specifications

options

power consumption

U_n DC 24 V special voltage upon request
U_n AC 230 V 50 Hz special voltage upon request
DC 4,8 W 2,5 W [actuation pressure range 4-7 bar]

protection
energized duty rating

AC pick up 11,0 VA holding 8,5 VA
IP65 (P54) acc. DIN 40050
ED 100%

connection

plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm

optional
additional equipment
max. temperature

M12x1 connector acc. DESINA connector acc. VDMA
illuminated plug with varistor

explosion proof

media 60°C
ambient 50°C
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

actuation pressure range
air consumption

pneumatic specifications

options

cycle speed
control

bar 4-10
cm³/stroke 65
main valve speed variable by throttleson pilot valve
preferably 5/2 way pilot valve

pilot valve interface
actuator ports

co-ax / Namur ISO 1
2/4 G 1/8 G 1/4

actuation pressure range
control

hydraulic specifications

options

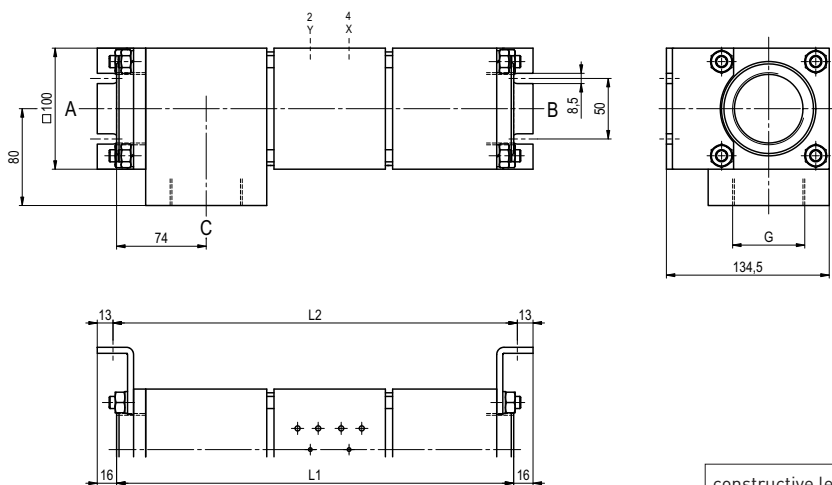
actuator ports
by media

bar 15-30 / 30-60
preferably 4/2 way control valve
X/Y G 1/4 NPT 1/4

coax® data sheet - coaxial valve

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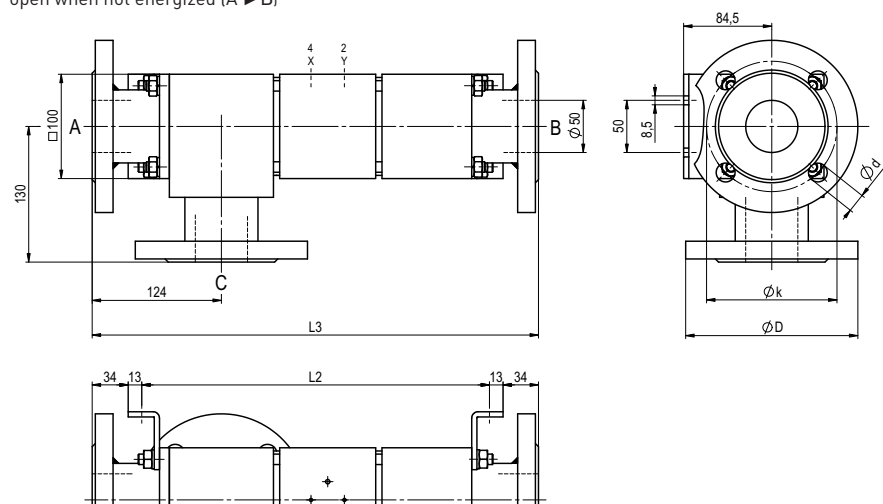
function: **NC**
closed when not energized (A ► B)



constructive length	L1	L2	L3
standard	328	334	428
with inductive limit switches	354	360	454
with force-feed lubrication nipple	-	-	-
with mechanical limit switches	-	-	-

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

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



pneumatic specifications

