

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.

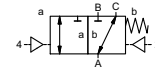
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

3/2 way valve

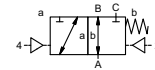
pressure range
orifice
connection
function

externally controlled

PN 0-40 bar
DN 40 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	⑤ without non-ferr. Metals
④ steel, nickel plated	⑥ stainless steel

valve seat

seal materials

synthetic resin on metal
NBR PTFE, FPM, CR, EPDM

ports

function
pressure range

general specifications

VSV-M threads G 1 1/2 - G 2
VSV-F flanges PN 16 / 40
NC
bar 0-16 / 0-40
A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40

options

special threads
special flanges
NO

Kv value

vacuum
pressure-vacuum

m³/h 29,1
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

flow direction
switching cycles
switching time

opening by throttles on pilot valve
closing see pressure range
1/min 150

media temperature
ambient temperature

ms opening 100-3000
closing 100-3000
°C direct mounted pilot valve 60
°C direct mounted pilot valve 50

flush ports
leak ports

remote mounted pilot valve outside
temperatur range of media max. 160 °C
available
available
inductive / mechanical upon request

limit switches
manual override

via pilot valve
LR/GL/WAZ
mounting brackets

approvals
mounting
weight
additional equipment

kg VSV-M 8,9 VSV-F 11,6
upon request

nominal voltage

power consumption

electrical specifications

U_n DC 24 V
U_n AC 230 V 50 Hz
DC 4,8 W
AC pick up 11,0 VA holding 8,5 VA

options

special voltage upon request
special voltage upon request
2,5 W [actuation pressure range 4-7 bar]

protection
energized duty rating
connection

IP65 (P54) acc. DIN 40050
ED 100%

optional additional equipment
max. temperature

plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm
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
cycle speed
control
pilot valve interface
actuator ports

pneumatic specifications

bar 4-10
cm³/stroke 34
main valve speed variable by throttleson pilot valve
preferably 5/2 way pilot valve
co-ax / Namur ISO 1
2/4 G 1/8 G 1/4

options

actuation pressure range

control
actuator ports
by media

hydraulic specifications

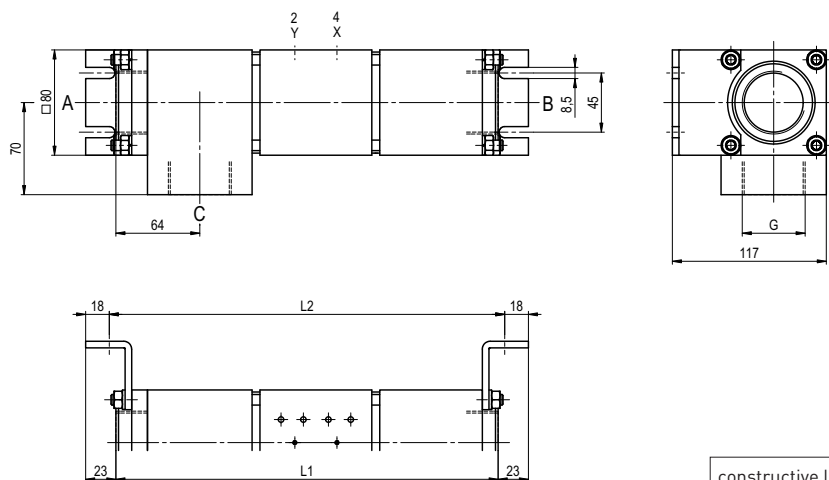
bar 15-30 / 30-60
preferably 4/2 way control valve
X/Y G 1/4 NPT 1/4

options

coax® data sheet - coaxial valve

type VSV-M 40 DR
VSV-F 40 DR

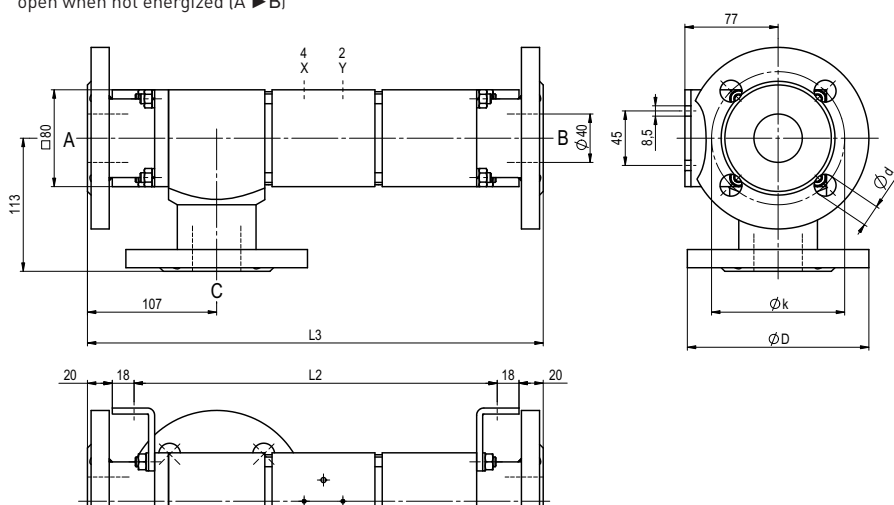
function: **NC**
closed when not energized (A ► B)



constructive length	L1	L2	L3
standard	291	301	377
with inductive limit switches	326	334	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

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



pneumatic specifications

