

09/2022



⚠ 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
- 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

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

2/2-way valve

pressure range
orifice
connection
function

operating principle

body material

valve seat

seal materials

ports

function
pressure range

Kv value
vacuum
pressure-vacuum

back pressure
media

abrasive media
damping

flow direction
switching cycles
switching time

media temperature
ambient temperature

flush ports
leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

nominal voltage

power consumption

protection
energized duty rating
connection
optional additional equipment
max. temperature

explosion proof

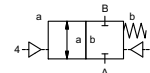
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

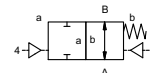
externally controlled

PN 0-40 bar
DN 50 mm
thread/flange

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



pressure balanced, with spring return

- ①
- ② steel galvanized
- ③
- ④ steel, nickel plated
- ⑤ without non-ferr. Metals
- ⑥ stainless steel

synthetic materials on metal

NBR PTFE, FPM, CR, EPDM

general specifications

VSV-M threads G 2
VSV-F flanges PN 16 / 40
NC
0-16 / 0-40

options

special threads
special flanges
NO

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 available (max. 16 bar)
P₂ > P₁ gaseous - liquid - highly viscous - gelatinous - pasty - contaminated

opening by throttles on pilot valve
closing as marked
A ⇔ B bi-directional upon request

1/min 100
ms opening 150-3000
closing 150-3000
°C direct mounted pilot valve 60 remote mounted pilot valve outside
°C direct mounted pilot valve 50 temperatur range of media max. 160 °C

available
available
inductive / mechanical upon request
via pilot valve
LR/DNV/WAZ
mounting brackets

kg VSV-M 11.9 VSV-F 18.2
upon request

electrical specifications

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]
AC pick up 11.0 VA holding 8.5 VA
IP65 (P54) acc. DIN 40050
ED 100%
plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm
M12x1 connector acc. DESINA connector acc. VDMA
illuminated plug with varistor
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

pneumatic specifications

bar 4-8
cm³/stroke 55
main valve speed variable by throttles on pilot valve
preferably 5/2 way pilot valve
co-ax / Namur ISO 1
2/4 G 1/8 G 1/4

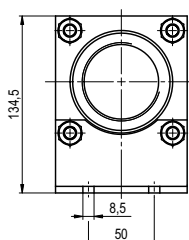
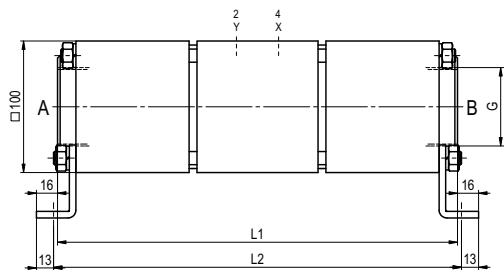
hydraulic specifications

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

coax® data sheet - coaxial valve

type VSV-M 50
VSV-F 50

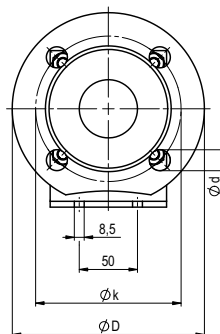
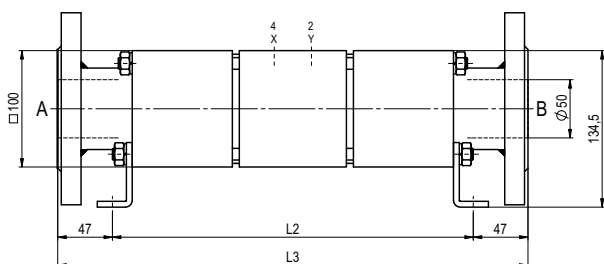
function: **NC**
closed when not energized



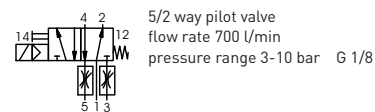
constructive length	L1	L2	L3
standard	304	310	404
with inductive limit switches	330	336	430
with force-feed lubrication nipple	322	328	422
with mechanical limit switches	344	350	444

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

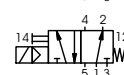
function: **NO**
open when not energized



pneumatic specifications



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