

type VSV-M 40 DR
VSV-F 40 DR

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
- 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. 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

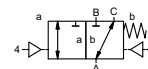
3/2 way valve

pressure range
orifice
connection
function

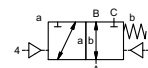
externally controlled

PN 0-40 bar
DN 40 mm
thread/flange

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



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



operating principle

body material

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 materials on metal

seal materials

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
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

m³/h 29.1

vacuum

leak rate

< 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

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

media temperature ambient temperature

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

remote mounted pilot valve outside
temperatur range of media max. 160 °C

flush ports

°C direct mounted pilot valve 60

leak ports

°C direct mounted pilot valve 50

available

limit switches

via pilot valve

available
inductive / mechanical upon request

manual override

via pilot valve

LR/DNV/WAZ

approvals

via pilot valve

mounting brackets

mounting

kg VSV-M 8.9 VSV-F 11.6

upon request

weight additional equipment

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
IP65 (P54) acc. DIN 40050
ED 100%

options

special voltage upon request
special voltage upon request
2.5 W [actuation pressure range 4-7 bar]

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 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

hydraulic specifications

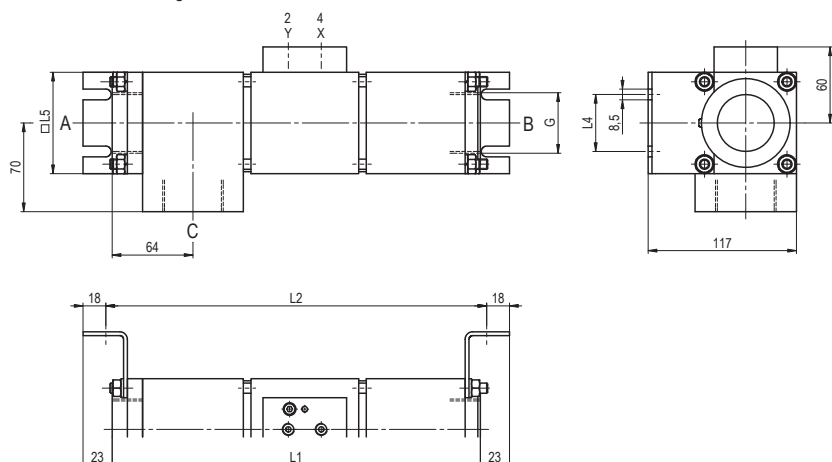
bar 15-30 / 30-60
preferably 4/2 way control valve
X/Y G 1/4 NPT 1/4

options

coax® data sheet - coaxial valve

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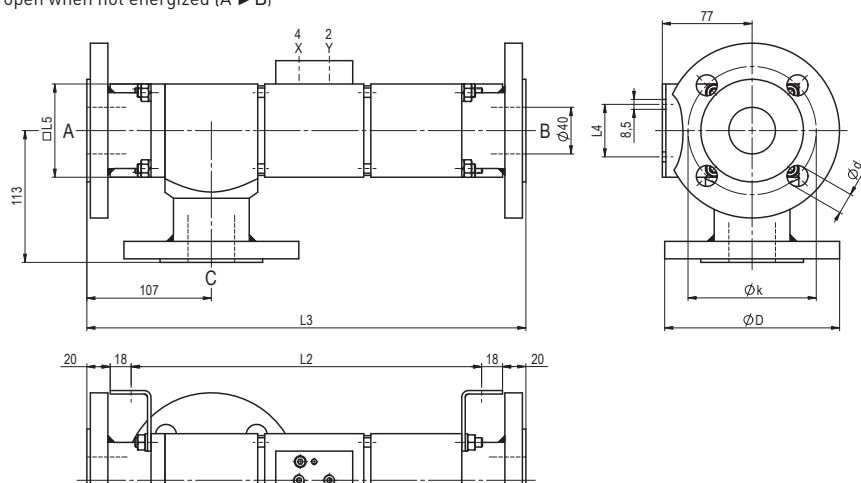
function: **NC**
closed when not energized (A ► B)



constructive length	L1	L2	L3	L4	L5
standard	291	301	377	45	80
with inductive limit switches	326	334	424	50	90
with force-feed lubrication nipple	-	-	-	-	-
with mechanical limit switches	-	-	-	-	-

flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	EN 1092-1	150	110	18
40	EN 1092-1	150	110	18

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



pneumatic specifications

