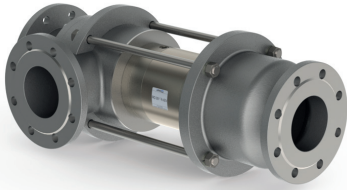


08/2021



⚠ 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

design

body materials

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

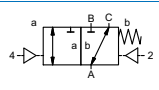
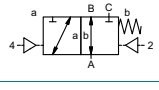
protection
energized duty rating
connection
optional additional equipment
max. temperature

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

pressure range
DN 100 mm
flange
valve
 normally closed (A ► B)
 symbol **NC**

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


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

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

general specifications

VSV-F flanges PN 16 / 40
 bar NC
 0-16 / 0-40
 A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40
 m³/h 140,0
 leak rate < 10⁻⁶ mbar•L•s⁻¹
 P₁ ⇔ P₂ pressure side max. 40 bar
 vacuum side leak rate upon request
 P₂ > P₁ see pressure range
 gaseous - liquid - highly viscous -
 gelatinous - pasty - contaminated
 opening by throttles on pilot valve
 closing see pressure range
 1/min 40
 ms opening 300-3000
 closing 300-3000
 °C direct mounted pilot valve 60
 °C direct mounted pilot valve 50
 remote mounted pilot valve outside
 temperatur range of media max. 160 °C
 available
 available
 inductive / mechanical upon request
 via pilot valve
 LR/GL/WAZ
 kg VSV-F 46,5
 upon request

options

special flanges

NO

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%
 plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm
 M12x1 connector acc. DESINA
 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

options

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

connector acc. VDMA

pneumatic specifications

bar 4-10
 cm³/stroke 135
 main valve speed variable by throttleson pilot valve
 preferably 5/2 way pilot valve
 2/4 G 1/4 G 3/8

options

hydraulic specifications

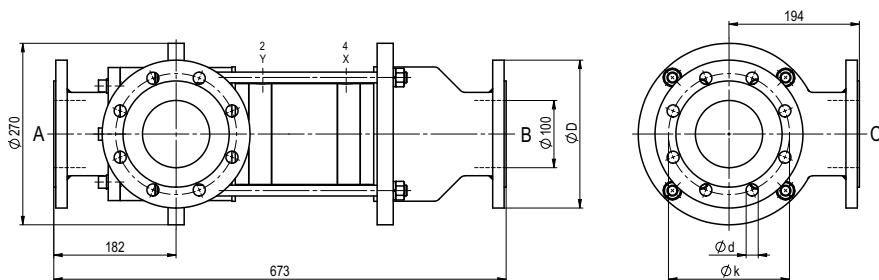
bar 15-30 / 30-60
 preferably 4/2 way control valve
 X/Y G 1/4 NPT 1/4
 upon request

options

coax® data sheet - coaxial valve

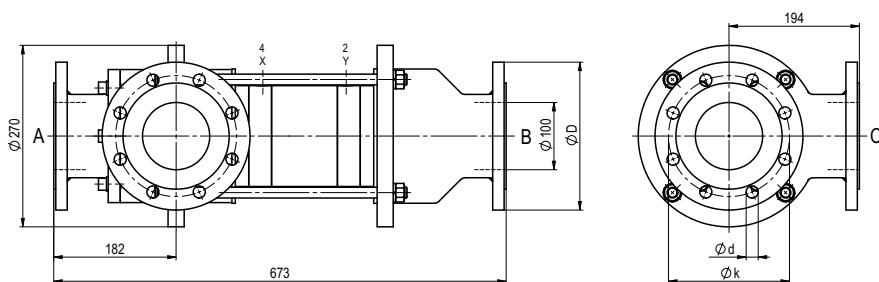
type VSV-F 100 DR

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



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	220	180	18
40	EN 1092-1	235	190	22

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



pneumatic specifications

