

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.

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 0-16 bar

DN 200 mm

flange

valve

normally closed

symbol **NC**

valve

normally open

symbol **NO**

pressure balanced, with spring return

①

③

④ steel, nickel plated

② steel galvanized

⑤

⑥ stainless steel

synthetic materials on metal

NBR

PTFE, FPM, CR, EPDM

general specifications

VSV-F flanges PN 16

NC

bar 0-16

m³/h 450.0

leak rate

P₁ ⇄ P₂P₂ > P₁gaseous - liquid - highly viscous -
gelatinous - pasty - contaminated

opening

closing

A ⇄ B

1/min

ms

°C

°C

flush ports

leak ports

limit switches

manual override

approvals

mounting

weight

kg

VSV-F 159.0

electrical specifications

U_nU_n

DC

IP65 (P54)

ED

M12x1

media

ambient

E Ex e II T5

nominal voltage U_n

power consumption

pneumatic specifications

bar 4-8

cm³/stroke 700

main valve speed variable by throttleson pilot valve

preferably 5/2 way pilot valve

2/4 G 1/4

hydraulic specifications

bar 15-30 / 30-60

preferably 4/2 way control valve

X/Y G 1/4

upon request

options

special flanges

NO

< 10⁻⁶ mbar•l•s⁻¹

pressure side max. 16 bar

vacuum side leak rate upon request

available (max. 16 bar)

available

by throttles on pilot valve

as marked

bi-directional upon request

opening 800-3000

closing 800-3000

remote mounted pilot valve outside

temperatur range of media max. 160 °C

available

available

inductive / mechanical upon request

via pilot valve

LR/DNV/WAZ

kg

VSV-F 159.0

upon request

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

connector acc. DESINA

connector acc. VDMA

illuminated plug with varistor

60°C

50°C

nominal voltage U_n

power consumption

options

bar

cm³/stroke

main valve speed variable by throttleson pilot valve

preferably 5/2 way pilot valve

2/4

G 1/4

G 3/8

options

bar

preferably 4/2 way control valve

X/Y

G 1/4

NPT 1/4

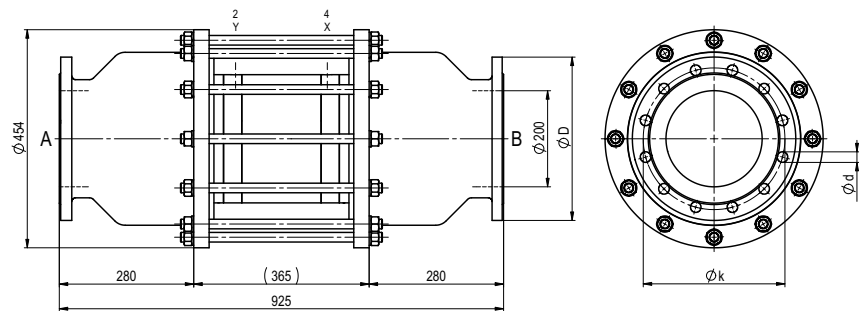
upon request

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

coax® data sheet - coaxial valve

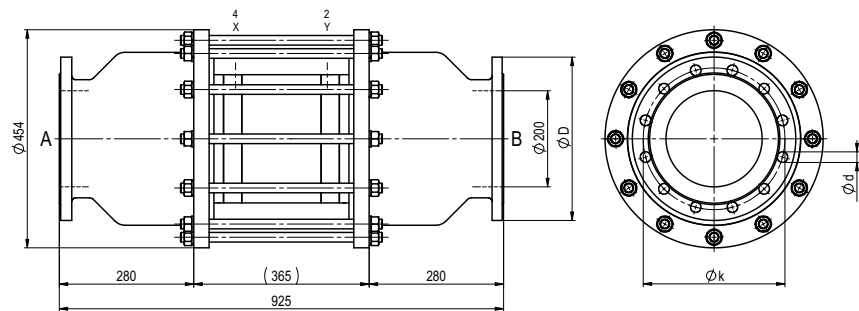
type VSV-F 200

function: **NC**
closed when not energized

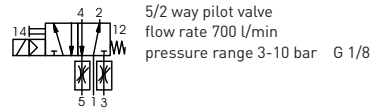


flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	340	295	22

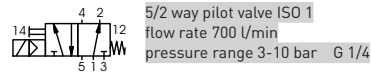
function: **NO**
open when not energized



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