

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

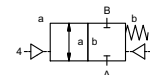
2/2-way valve

pressure range
orifice
connection
function

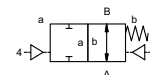
externally controlled

PN 0-40 bar
 DN 80 mm
 flange

valve normally closed
 symbol **NC**



valve normally open
 symbol **NO**



operating principle

body material

pressure balanced, with spring return

- ① aluminium
- 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

general specifications

options

function
pressure range

VSV-F flanges PN 16 / 40
 NC NO
 bar 0-16 / 0-40

Kv value
vacuum
pressure-vacuum

m³/h 90.0
 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)

back pressure
media

P₂ > P₁ gaseous - liquid - highly viscous -
 gelatinous - pasty - contaminated

abrasive media
damping

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

flow direction
switching cycles
switching time

1/min 50
 ms opening 200-3000
 closing 200-3000

media temperature
ambient temperature

°C direct mounted pilot valve 60 remote mounted pilot valve outside
 °C direct mounted pilot valve 50 temperatur range of media max. 160 °C

flush ports

available

leak ports

available

limit switches

inductive / mechanical upon request

manual override

via pilot valve

approvals

LR/DNV/WAZ

mounting

weight

kg VSV-F 27.0

additional equipment

upon request

nominal voltage

electrical specifications

options

power consumption

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]

protection

AC pick up 11.0 VA holding 8.5 VA

energized duty rating

IP65 (P54) acc. DIN 40050

connection

ED 100% plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm

optional additional equipment

M12x1 connector acc. DESINA connector acc. VDMA

max. temperature

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

pneumatic specifications

options

air consumption

bar 4-8

cycle speed

cm³/stroke 75

control

main valve speed variable by throttleson pilot valve

pilot valve interface

preferably 5/2 way pilot valve

actuator ports

2/4 G 1/4 G 3/8

actuation pressure range

hydraulic specifications

options

control

bar 15-30 / 30-60

actuator ports

preferably 4/2 way control valve

by media

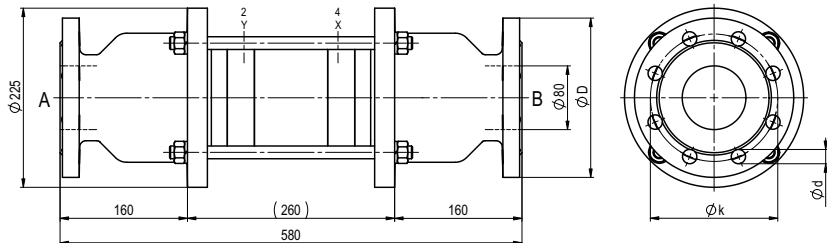
X/Y G 1/4 NPT 1/4

upon request

coax® data sheet - coaxial valve

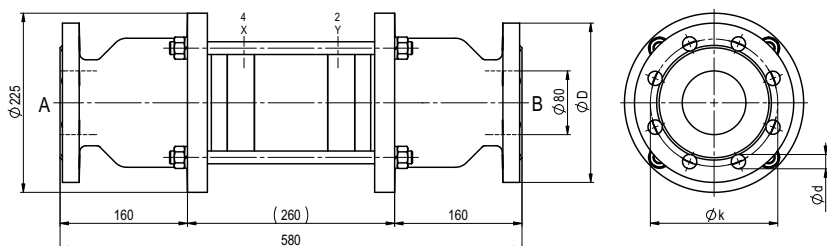
type VSV-F 80

function: **NC**
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	200	160	18
40	EN 1092-1	200	160	18

function: **NO**
open when not energized



pneumatic specifications

