

coaxial valve

type VSV-F 80

5-VSV-F 80

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-40 bar

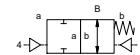
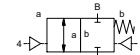
orifice DN 80 mm

connection flange

function valve

normally closed symbol NC

valve normally open symbol NO



design pressure balanced, with spring return

body materials

① aluminium

③

④ steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

② steel, galvanized

⑤ without non-ferr. metals

⑥ stainless steel

PTFE, FPM, CR, EPDM

⚠ 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
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

details needed for hydraulic actuation

- actuation pressure range min/max
- hydraulic control valve function

general specifications

ports VSV-F flanges PN 16 / 40

special flanges

function NC

NO

pressure range bar 0-16 / 0-40

pressure-vacuum

Kv value 90,0

vacuum

leak rate $< 10^{-6}$ mbar·l·s⁻¹

P₁ ↔ P₂

pressure side max. 40 bar

vacuum side leak rate upon request

back pressure

media P₂ > P₁

available (max. 16 bar)

abrasive media

damping

opening

gaseous - liquid - highly viscous -

vacuum

leak rate

gelatinous - pasty - contaminated

flow direction

version available

switching cycles

switching time

media temperature

ambient temperature

flush ports

leak ports

limit switches

manual override

approvals

mounting

weight

additional equipment

bi-directional upon request

1/min 50

ms opening 200-3000 closing 200-3000

°C direct mounted pilot valve 60

°C direct mounted pilot valve 50

remote mounted pilot valve outside tempe-

ratur range of media max. 160 °C

available

available

inductive / mechanical upon request

via pilot valve

LR/GL/WAZ

kg VSV-F 27,0

upon request

electrical specifications

nominal voltage 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

protection

energized duty rating

connection

optional

additional equipment

max. temperature

explosion proof

U_n pick up 11,0 VA holding 8,5 VA

IP65 (P54) acc. DIN 40050

ED 100%

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

media illuminated plug with varistor

ambient 60°C

explosion proof 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

special voltage upon request

special voltage upon request

2,5 W

actuation pressure range bar 4-10

air consumption cm³/stroke 75

cycle speed main valve speed variable by throttles on pilot valve

control preferably 5/2 way pilot valve

pilot valve interface preferably 4/2 way control valve

actuator ports by media

2/4 G 1/4 G 3/8

DC 24 V

AC 230 V 50 Hz

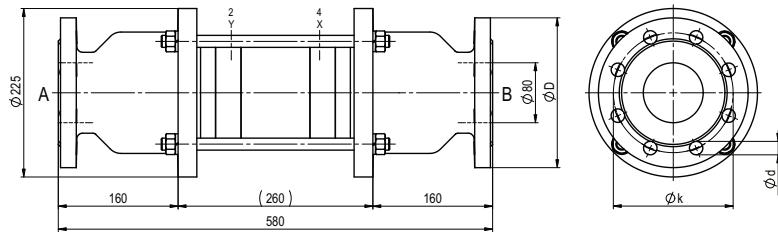
3,25 W

2,90 W

upon request

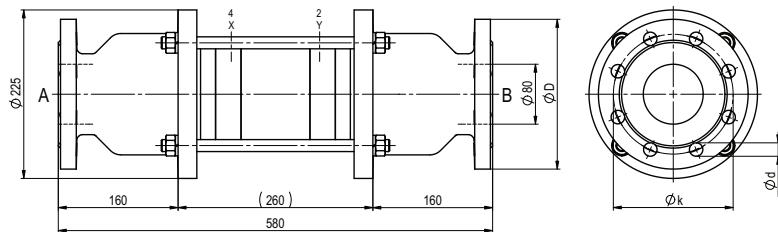
type VSV-F 80

function: **NC**
closed when not energized



type VSV-F 80

function: **NO**
open when not energized



pneumatic actuation

