

coaxial valve

type VSV-F 80 DR

5-VSV-F 80 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-40 bar

orifice DN 80 mm

connection flange

function valve

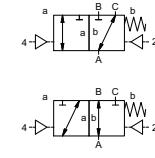
normally closed (A ▶ B)

symbol NC

valve

normally open (A ▶ B)

symbol NO



design pressure balanced, with spring return, switching overlap

body materials ① aluminium

② steel, galvanized

③

⑤ without non-ferr. metals

valve seat ④ steel, nickel plated

⑥ stainless steel

seal materials synthetic resin on metal

NBR

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
- 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
- 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 / 40

A ▷ B max. 40 / B ▷ A max. 16 / A ▷ C max. 40 / C ▷ A max. 40

Kv value 90,0

vacuum m³/h

leak rate < 10⁻⁶ mbar·l·s⁻¹

pressure-vacuum P₁ ⇄ P₂ pressure side max. 40 bar

back pressure P₂ > P₁ vacuum side leak rate upon request

media gaseous - liquid - highly viscous -

abrasive media gelatinous - pasty - contaminated

gaseous - liquid - highly viscous -

gelatinous - pasty - contaminated

version available

damping opening see pressure range

flow direction closing by throttles on pilot valve

switching cycles 1/min 50

switching time ms opening 250-3000 closing 250-3000

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

ambient temperature °C direct mounted pilot valve 50 available

flush ports leak ports available

limit switches inductive / mechanical upon request

manual override via pilot valve

available

inductive / mechanical upon request

approvals LR/GL/WAZ

mounting upon request

weight kg VSV-F 26,8

additional equipment 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

power consumption AC pick up 11,0 VA holding 8,5 VA

protection IP65 (P54) acc. DIN 40050

energized duty rating ED 100%

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

optional M12x1 connector acc. DESINA

connector acc. VDMA

additional equipment illuminated plug with varistor

max. temperature media 60°C

ambient 50°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

options upon request

pneumatic specifications

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 2/4 G 1/4

preferably 5/2 way pilot valve

2/4 G 1/4

3/8 G 3/8

hydraulic specifications

actuation pressure range bar 10-30 / 30-60

control preferably 4/2 way control valve

actuator ports X/Y G 1/4

10-30 / 30-60

4/2 way control valve

NPT 1/4

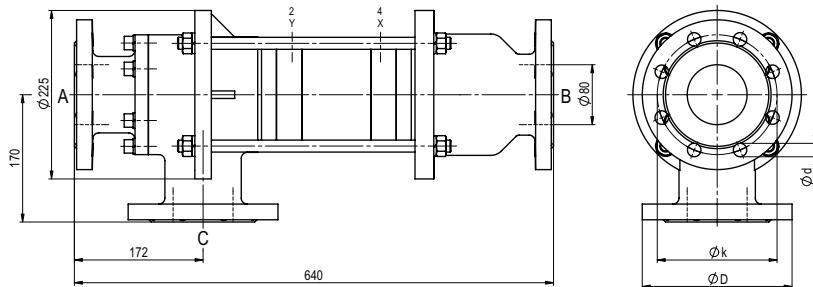
by media upon request

upon request

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

type VSV-F 80 DR

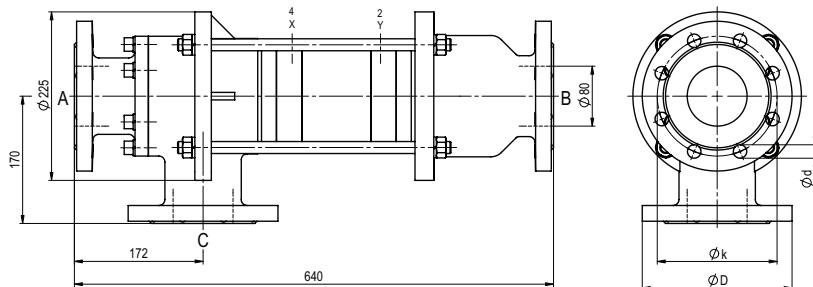
function: **NC**
closed when not energized (A ▶ B)



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

type VSV-F 80 DR

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



pneumatic actuation

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