

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**

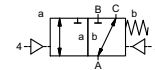
**actuation pressure range**  
**air consumption**  
**cycle speed**  
**control**  
**pilot valve interface**  
**actuator ports**

**actuation pressure range**  
**control**  
**actuator ports**  
**by media**

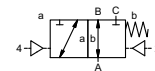
**externally controlled**

PN 0-40 bar  
 DN 80 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 aluminium            | ② steel galvanized         |
| ③                      | ⑤ without non-ferr. Metals |
| ④ steel, nickel plated | ⑥ stainless steel          |

synthetic resin on metal

NBR PTFE, FPM, CR, EPDM

**general specifications**

VSV-F	flanges PN 16 / 40	<b>options</b> special flanges
	NC	NO
bar	0-16 / 0-40 A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40	
m <sup>3</sup> /h	90,0	
leak rate		< 10 <sup>-6</sup> mbar•L•s <sup>-1</sup>
P <sub>1</sub> ⇔ P <sub>2</sub>		pressure side max. 40 bar vacuum side leak rate upon request
P <sub>2</sub> > P <sub>1</sub>	see pressure range gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	available
opening		
closing	by throttles on pilot valve	
1/min	see pressure range	
ms	opening 200-3000 closing 200-3000	
°C	direct mounted pilot valve 60	remote mounted pilot valve outside
°C	direct mounted pilot valve 50	temperatur range of media max. 160 °C
		available
		available
		inductive / mechanical upon request
	via pilot valve	
		LR/GL/WAZ
kg	VSV-F 26,8	upon request

**electrical specifications**

U <sub>n</sub>	DC 24 V	<b>options</b> special voltage upon request
U <sub>n</sub>	AC 230 V 50 Hz	special voltage upon request
DC	4,8 W	2,5 W [actuation pressure range 4-7 bar]
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	connector acc. VDMA
media ambient	60°C 50°C	
E Ex e II T5	nominal voltage U <sub>n</sub> power consumption	DC 24 V 3,25 W AC 230 V 50 Hz 2,90 W

**pneumatic specifications**

bar	4-10	<b>options</b>
cm <sup>3</sup> /stroke	75	
	main valve speed variable by throttleson pilot valve preferably 5/2 way pilot valve	
2/4	G 1/4	G 3/8

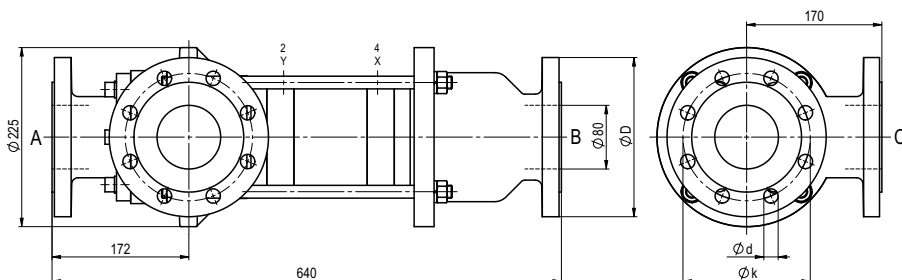
**hydraulic specifications**

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

# coax® data sheet - coaxial valve

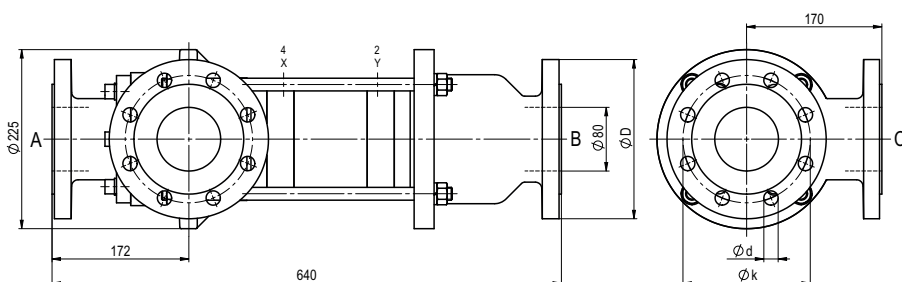
type VSV-F 80 DR

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

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



## pneumatic specifications

