coax® data sheet - coaxial valve

type VSV-F 65 DR

09/2022

3/2 way valve	**externally controlled**
pressure range	PN 0-40 bar
orifice	DN 65 mm
connection	flange
function	valve normally closed (A ▶B) symbol **NC**
	valve normally open (A ▶B) symbol **NO**
operating principle	pressure balanced, with spring return, intersecting switch-over
body material	⓪ aluminium ③ ④ steel, nickel plated ② steel galvanized ⑤ without non-ferr. Metals ⑥ stainless steel
valve seat	synthetic materials on metal
seal materials	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
- 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.

general specifications			**options**
ports	VSV-F	flanges PN 16 / 40	special flanges
function		NC	NO
pressure range	bar	0-16 / 0-40	> 40 bar upon request
		A ⇨ B max. 40 / B ⇨ A max. 16 / A ⇨ C max. 40 / C ⇨ A max. 40	
Kv value	m³/h	68.0	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		pressure side max. 40 bar vacuum side leak rate upon request
back pressure	$P_2 > P_1$	see pressure range	
media		gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
abrasive media			available
damping	opening closing	 by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	50	
switching time	ms	opening 200-3000 closing 200-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside
ambient temperature	°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 24.0	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	DC 24 V	special voltage upon request
	U_n	AC 230 V 50 Hz	special voltage upon request
power consumption	DC	4.8 W	2.5 W (actuation pressure range 4-7 bar)
	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, 2 positions x180° / 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

pneumatic specifications			**options**
actuation pressure range	bar	4-8	
air consumption	cm³/stroke	50	
cycle speed		main valve speed variable by throttleson pilot valve	
control		preferably 5/2 way pilot valve	
pilot valve interface			
actuator ports	2/4	G 1/4	G 3/8

hydraulic specifications			**options**
actuation pressure range	bar	15-30 / 30-60	
control		preferably 4/2 way control valve	
actuator ports	X/Y	G 1/4	NPT 1/4
by media			upon request

- specifications not highlighted are standard

specifications highlighted in grey are optional

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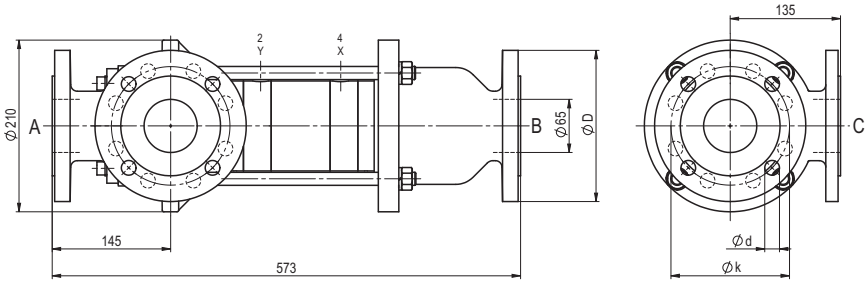
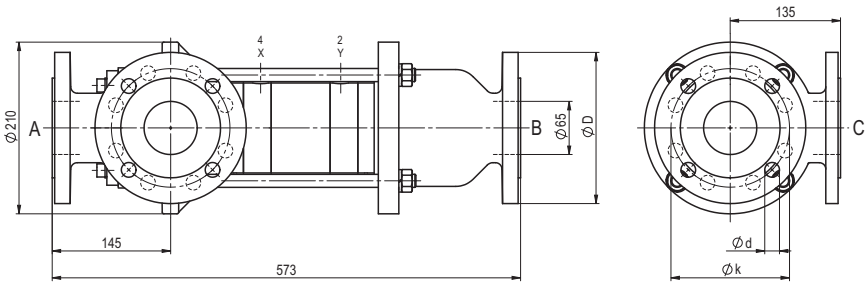
type VSV-F 65 DR

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

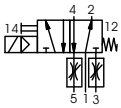


flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	185	145	4x 18
40	EN 1092-1	185	145	8x 18

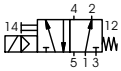
function: **NO**
open when not energized (A ▶B)



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

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