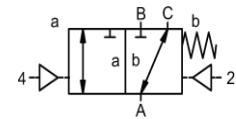
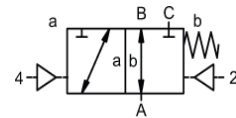


3/2-way coaxial valve - externally controlled, DN100 series CVFV3-100



normally closed (NC)

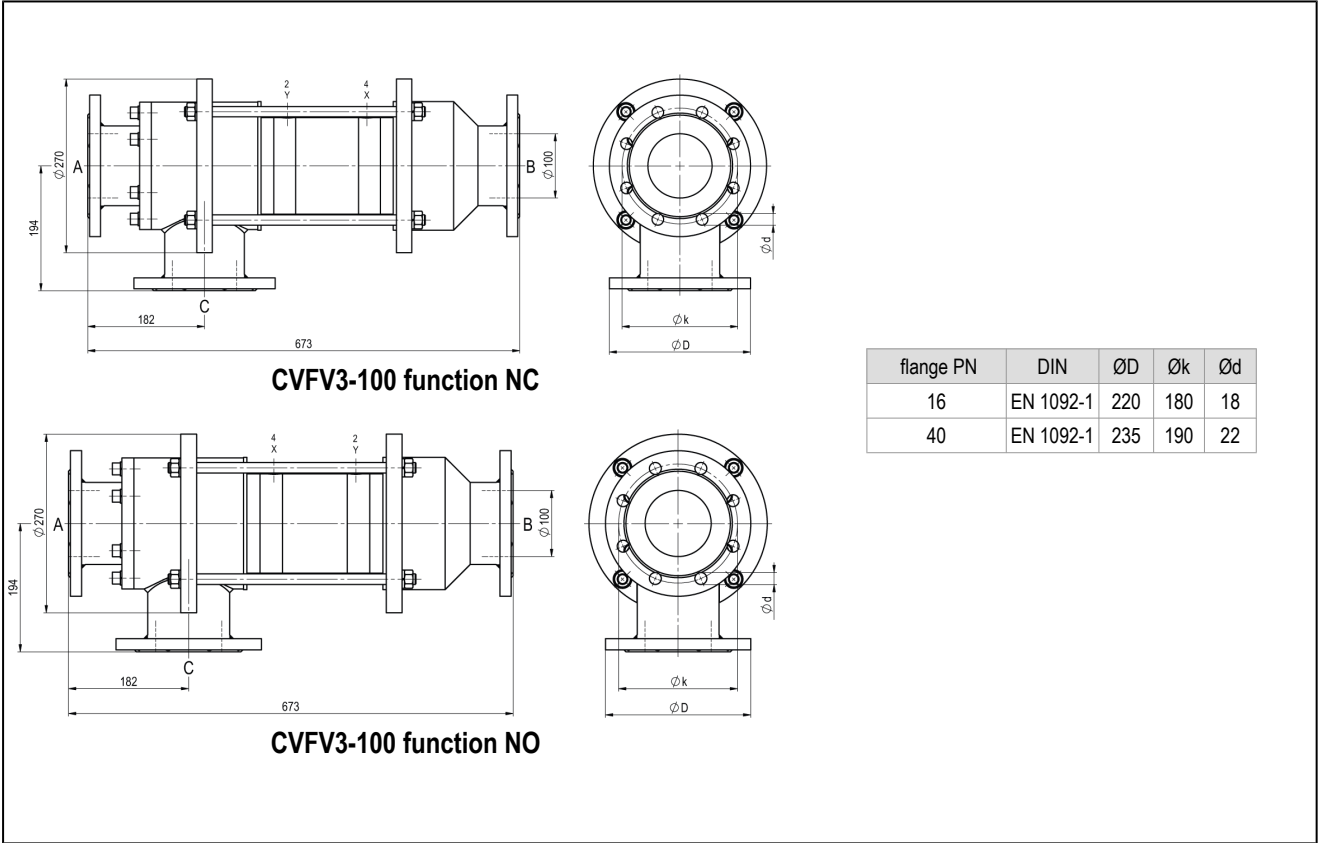


normally open (NO)

type designation	CVFV3-100, with pilot valve CVFV3-P-100
design	3/2-way-coaxial valve, externally controlled, normally closed or normally open
mode of operation	pressure balanced, with spring return, not free of overlapping
nominal diameter	DN 100mm
connection	flange PN16/40, special flanges on request
pressure range	0-16 or 0-40bar, A → B max. 40bar / B → A max. 16bar / A → C max. 40bar / C → A max. 40bar
back pressure	P2 > P1, see pressure range
materials	optional body zinc plated steel, steel nickel plated, nonferrous free or stainless steel valve seat plastic on metal, sealing materials PTFE, NBR, FPM, CR, EPDM the indications of material of the remarks exclusively refer to the valve connection parts coming into contact with the medium
media	gaseous - liquid - contaminated - highly viscous - gelatinous - pasty
flow direction	see pressure range
type of fixing	installed into rigid pipework
mounting position	any
vacuum leakage rate	$< 10^{-6} \text{ mbar} \cdot \text{l} \cdot \text{s}^{-1}$
kv value	140,0m³/h
operations	40/min.
switching time	open 300-3000ms, close 300-3000ms
damping	open/close: by throttling the pilot valve
medium temperature	with flanged pilot valve to +60°C (pilot valve outside of temperature range of max. medium-temperature 160°C)
ambient temperature	with flanged pilot valve to +50°C
manual emergency override	via pilot valve
certifications	on request LR/GL/EN10204
weight	46,5kg
options	vacuum-test with certificate, limit switch inductive (NO contact PNP- Icomatic/Balluf), limit switch inductive NAMUR (+ switch amplifier), limit switch mechanical (change-over contact) on request, purge connections, drain connections

type of current	AC and DC
standard voltage	230V/40-60Hz, 24VDC, acceptable voltage tolerance $\pm 10\%$
special voltage	on request
power consumption	DC: 4,8W (2,5W on request), AC: inrush power 11,0VA, holding power 8,5VA
duty cycle	100% (continuous operation)
protection class	IP65 (IP54) according to DIN 40050 with correctly mounted connector (protection against the penetration of dust and jet water)
scope of supply	with connector acc. to EN175301-803-form B (previous DIN43650) - cable inlet M16x1,5
optional	connector acc. to DESINA, connector acc. to VDMA
additional features	connector with integrated LED and VDR
explosion protection	Eex m II T5, power consumption 24VDC: 3,25W, 230VAC: 2,90W
	pneumatically controlled
control pressure range	4-10bar
air requirement	135cm ³ /stroke
switching speed	main valve can be adjusted by throttles on the pilot valve
control	preferably via a 5/2-way pilot valve
control ports	2/4: G1/4" (G3/8" on request)
	hydraulically controlled
control pressure range	10-30bar/30-60bar
control	preferably via a 4/2-way pilot valve
control ports	X/Y: G1/4" (NPT 1/4 on request)
order data	nominal diameter, connection, NC/NO function, operating pressure, flow rate, medium, medium temperature, ambient temperature, nominal voltage, nominal voltage limit switch, control, pressure connection A, B, or C
direction for use	the valves technical design is based on media and application, which may lead to deviations from the general information on the data sheet in terms of design, sealing materials and characteristics. if order or application information is inexact or incomplete, there is a risk of the incorrect design of valves for the intended use. This can have the effect that the physical and / or chemical properties of the used materials or seals for the intended purpose are insufficient.

dimensions



pilot valves and electrical connection

pilot valve co-ax (pipe connection) 5/2-way valve electro-pneumatic, G1/8, p = 4 - 10bar	electrical connection coil M12x1	electrical connection B type connector DIN EN 175301-803 respectively industrial form
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limit switch

Icomatic plastic design M12x1, DC 10 - 60V AC 15 - 250V -25...+85°C	Balluff metal M12x1, DC 10 - 30V -25...+70°C	Honeywell change-over contact
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illustrations are for information only and are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice