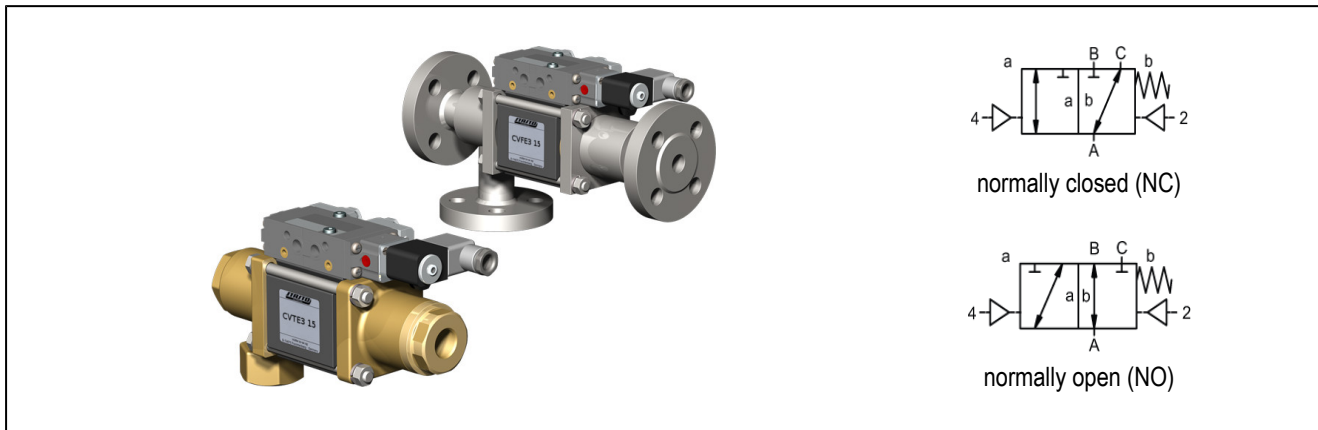


3/2-way coaxial valve - externally controlled, DN50 series CVTE3/CVFE3-50



type designation	CVTE3-50, CVFE3-50, with pilot valve CVTE3-P-50, CVFE3-P-50
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 50mm
connection	CVTE3: G2", CVFE3: flange PN64/100, special flanges and -threads on request
pressure range	0-64 or 0-100bar, A → B max. 100bar / B → A max. 16bar / A → C max. 100bar / C → A max. 100bar, > 100bar on request
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 bracket on request
mounting position	any
vacuum leakage rate	$< 10^{-6} \text{ mbar} \cdot \text{l} \cdot \text{s}^{-1}$
kv value	43,0m³/h
operations	100/min.
switching time	open 150-3000ms, close 150-3000ms
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	CVTE3 19,5kg, CVFE3 31,4kg
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) respectively industrial form - 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	65,0cm ³ /stroke
switching speed	main valve can be adjusted by throttles on the pilot valve
control	preferably via a 5/2-way pilot valve
connection diagramme	co-ax/NAMUR, (ISO 1 on request)
control ports	2/4: G1/8" (G1/4" 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.

CVTE3-50 function NC

overall length	L1	L2	L3
standard	400	316	500
with 1/2 inductive limit switches	400	316	500
with grease press button	400	316	500
with mechanical limit switches	-	-	-

CVFE3-50 function NO

mounting brackets are to be ordered separately

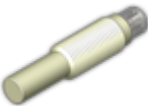
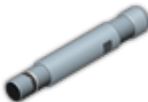
pilot valves

pilot valves

electrical connection

 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