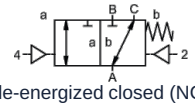
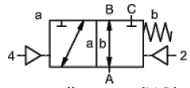
Partnership. With Guarantee.

3/2 - Way coaxial valve - pilot-operated, DN50
Series CVTE3/CVFE3-50





de-energized closed (NC)



normally open (NO)

Type designation	CVTE3-50, CVFE3-50, with pilot valve CVTE3-P-50, CVFE3-P-50
Design type	3/2-way coaxial valve, pilot-operated, normally closed or de-energized open
Mode of operation	pressure-relieved, with spring return, non-overlapping
Nominal size	DN 50mm
Connection	CVTE3: G2", CVFE3: Flanges PN63/100, Special flanges and threads on request
Pressure range	0..63 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 Steel galvanized, Steel nickel-plated, non-ferrous metal-free or Stainless steel Valve seat Plastic on metal, Sealing materials PTFE, NBR, FPM, CR, EPDM The material specifications of the versions refer exclusively to the valve connection parts that come into contact with the medium
Media	gaseous - liquid - contaminated - high-viscosity - gelatinous - paste-like
Flow direction	see Pressure range
Mounting type	Installation in rigid piping system, Mounting bracket on request
Mounting position	any
Vacuum Leakage rate	< 10^{-6}mbar*l*s^{-1}
Kv value	43,0m³/h
Switching cycles	100/min.
Switching time	ON 150...3000ms, CLOSED 150...3000ms
Cushioning	ON/CLOSED: via throttling of the pilot valve
Medium temperature	with flange-mounted pilot valve up to +60°C (Pilot valve outside the temperature range medium temperature max. 160°C)
Ambient temperature	with flange-mounted pilot valve up to +50°C
Manual emergency override	via pilot valve
Approvals	on request LR/DNV/EN10204
Weight	CVTE3 19,5kg, CVFE3 31,4kg
Options	Vacuum tests with certificate, Limit switch inductive (Normally closed (NC) PNP- Icomatic/Balluf), Limit switch inductive NAMUR (+ Switching amplifier), Limit switch mechanical (Changeover contact) on request, Flushing ports, Leakage ports, Version ATEX Ex II 2G Ex h IIC T6...T3 Gb / Ex II 2D Ex h IIIC T-40°C...+195°C Db

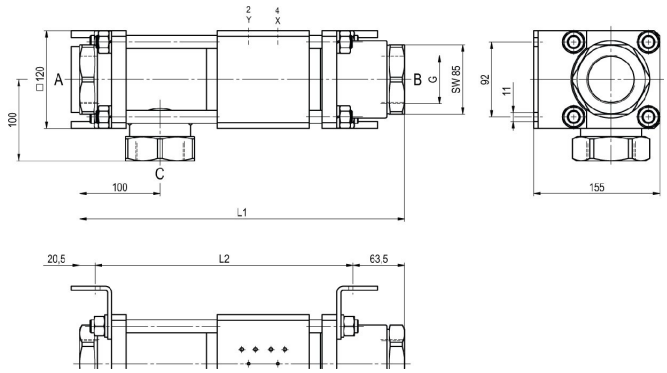
Voltage type	AC and DC voltage

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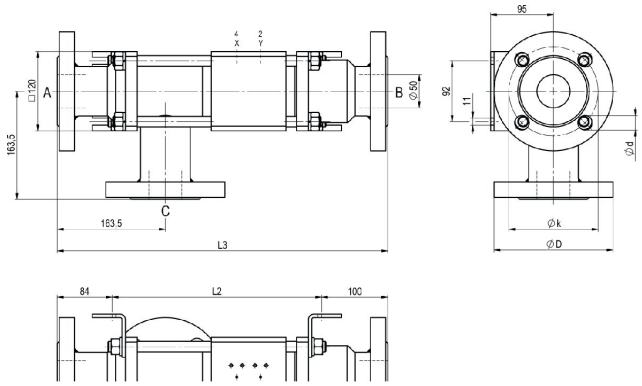
Standard voltage	230V/50Hz, 24VDC, Permissible voltage fluctuation ±10%
Special voltages	on request
Power consumption	DC: 4,8W (2,5W on request), AC: Tightening torque 11,0VA, Holding force 8,5VA
Duty cycle	100% (Continuous operation)
Degree of protection	IP65 to EN 60529 with correctly mounted device connector (protection against dust ingress and water jets)
Scope of delivery	incl. connector according to EN175301-803-Form B or rather Industrial design form - Cable entry M16x1,5
optional	Solenoid coil M12-DESINA, Solenoid coil M12-VDMA
Additional equipment	Illuminated connector with varistor
Explosion protection optional	ATEX Ex II 2G Ex mb IIC T5 Gb, Ex II 2D Ex mb tb IIIC T95°C IP66 Db Power consumption 24VDC: 3,25W, 230VAC: 2,90W
	Actuation pneumatic
Pilot pressure range	4...8bar
Air consumption	65,0cm³/Stroke
Switching speed	Main valve infinitely adjustable via throttles of the pilot valve
Control	preferably via 5/2-way pilot valve
Connection diagram	co-ax/NAMUR, (ISO 1 on request)
Control ports	2/4: G1/8" (G1/4" on request)
	Actuation hydraulic
Pilot pressure range	15...30bar/30...60bar
Control	preferably via 4/2-way pilot valve
Control ports	X/Y: G1/4" (NPT 1/4 on request)
Ordering information	Nominal size, Connection, Function NC/NO, Operating pressure, Flow rate, Medium, Medium temperature, Ambient temperature, Rated voltage, Rated voltage Limit switch, Actuation, Pressure port A, B, or C
Application note	The technical design of the valves is media- and application-specific, which may result in deviations from the general information stated in the data sheet with regard to version, sealing materials and characteristic values.. In the case of inaccurate or incomplete ordering information or application data, there is a risk of incorrect technical sizing of the valves for the intended application.. This may result in the physical and/or chemical properties of the materials or seals used being insufficient for the intended application purpose.

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Dimensions



CVTE3-50 Function NC



CVFE3-50 Function NO

Installation lengths	L1	L2	L3
Standard	400	316	500
with 1/2 inductive limit switches	400	316	500
with pressure lubricator head	400	316	500
with mechanical limit switches	-	-	-

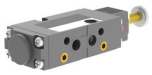
Flange PN	DIN	ØD	Øk	Ød
64	EN 1092-1	180	135	22
100	EN 1092-1	195	145	26

Mounting brackets must be ordered separately

Pilot valves



Pilot valve ABS56
5/2-way valve NAMUR
electropneumatic
G1/4, with exhaust air flow controls
p = 4...10bar



Pilot valve
5/2-way valve NAMUR electropneumatic
G1/8, with exhaust air flow controls
p = 4...10bar



Pilot valve
5/2-way valve ISO1
electropneumatic
G1/4
p = 4...10bar



Pilot valve
5/2-way valve co-ax
electropneumatic
G1/4
p = 4...10bar

Electrical connections



electrical connection
Solenoid coil M12x1



electrical connection
Form B connector DIN EN 175301-803
or rather Industrial design form

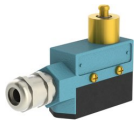
Limit switch



Icomatic Plastic version
M12x1, DC 10...60V
AC 15...250V
-25...+85°C



Balluff Metal version
M12x1, DC 10...30V
-25...+70°C



Honeywell
Changeover contact

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