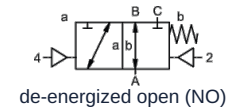
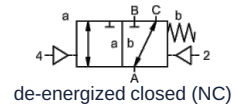
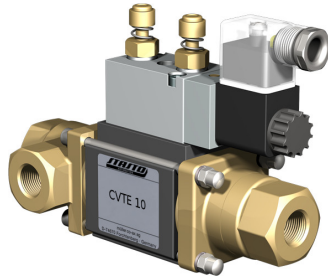


3/2 - Way coaxial valve - pilot-operated, DN10 Series CVTE3-10



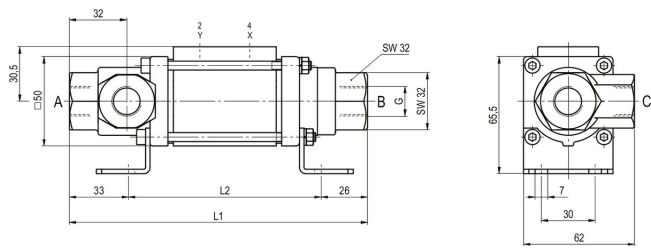
Type designation	CVTE3-10, with pilot valve CVTE3-P-10
Design type	3/2-way coaxial valve, pilot-operated, normally closed (de-energized closed) or de-energized open
Mode of operation	pressure-relieved, with spring return, non-overlapping
Nominal size	DN 10mm (DN 9mm 0...100bar)
Connection	G1/4"...G3/4", Special thread on request
Pressure range	0...16, 0...40, 0...63bar or 0...100bar, A → B max. 100bar / B → A max. 16bar / A → C max. 100bar / C → A max. 63bar
Back pressure	P2 > P1, see pressure range
Materials	optional Body Brass, Brass nickel-plated or Stainless steel; Aluminium 0...63bar 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	2,5m³/h (2,1m³/h 0...100bar)
Switching cycles	680/min.
Switching time	ON 30...3000ms, CLOSED 50...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	1,8kg
Options	Vacuum tests with certificate, Limit switch inductive (Normally closed (NC) PNP- Icomatic/Balluff), Limit switch inductive NAMUR (+ Switching amplifier), Version ATEX Ex II 2G Ex h IIC T6...T3 Gb / Ex II 2D Ex h IIC T-40°C...+195°C Db
Voltage type	AC and DC voltage



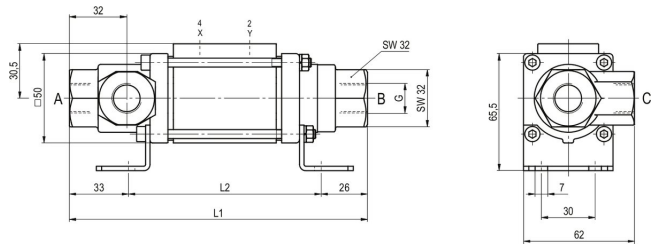
Standard voltage	230V/50Hz, 24VDC, Permissible voltage fluctuation $\pm 10\%$
Special voltages	on request
Power consumption	DC: 4,8W (2,5W on request), AC: Tightening torque 11,0VA, Holding force 8,5VA
Duty cycle	100% (Continuous operation)
Degree of protection	IP65 according to EN 60529 with properly mounted device socket 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	2cm ³ /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 on request)
Control ports	2/4: G1/8"
	Actuation hydraulic
Pilot pressure range	4...10bar
Control	preferably via 4/2-way pilot valve
Control ports	X/Y: G1/8"
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.



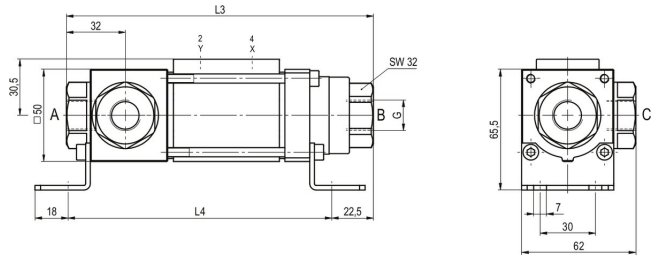
Dimensions



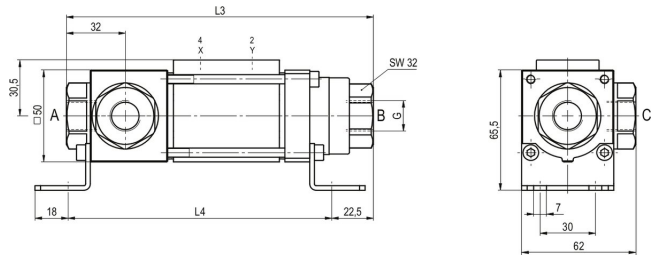
CVTE3-10 Function NC



CVTE3-10 Function NO



CVTE3-10 Function NC (> 63bar)



CVTE3-10 Function NO (> 63bar)

Mounting brackets must be ordered separately

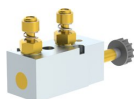
Installation lengths	L1	L2	L3	L4
Standard	166,5	107,5	166,5	143
with 1/2 inductive limit switches	186,5	127,5	186,5	163



Pilot valves and electrical connections



Pilot valve ABS57
5/2-way valve
electropneumatic
G1/4, with exhaust air flow controls
p = 4...10bar



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



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

Illustrations non-binding

Design, dimensional and material changes reserved

[Armatures](#) / [Special armatures](#) / [Coaxial valves](#) / [3/2-way-coaxial valves Series CVTE3.../CVFE3.../CVTV3.../CVFV3...](#) / [\[CVTE3-10...\] 3/2-way-coaxial valves CVTE3-10...](#)

