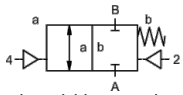
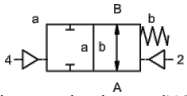
Partnership. With Guarantee.

2/2-Way coaxial valve - pilot-operated, Series CVFF



normally closed (de-energized closed) (NC)



de-energized open (NO)

Type designation	CVFF, with pilot valve CVFF-P
Design type	2/2-way coaxial valve, pilot-operated, Spring return closed or spring opens
Mode of operation	pressure-relieved, with spring return
Connection	Flanges DN25...DN150 according to EN1092-1 PN16 or rather PN40
Materials	optional Body Aluminium or Stainless steel Valve seat Plastic on metal, Sealing materials PTFE, NBR, FPM, PU, PE The material specifications of the versions refer exclusively to the valve connection parts in contact with the medium.
Media	Emulsions, Oils, neutral gases, (other media on request)
Medium temperature	with flanged pilot valve up to +60°C (> 60°C on request)
Ambient temperature	with flanged pilot valve up to +50°C (> 50°C on request)
Pressure range	0...16bar or 0...40bar
Back pressure	P2 > P1, available (max. 16bar)
Vacuum Leakage rate	on request
Flow direction	A → B, according to marking, (alternating on request)
Mounting type	Installation in rigid piping system
Mounting position	any
Cushioning	ON/CLOSED: via throttling of the pilot valve
Manual emergency override	via pilot valve
Approvals	on request
Options	Vacuum tests with certificate, Limit switch inductive (Normally closed (NC) PNP-Balluf), Limit switch inductive NAMUR (+ Switching amplifier), Sensor/pressure gauge connection G 1/4"

Voltage type	AC and DC voltage
Standard voltage	230V/50Hz, 24VDC, Permissible voltage fluctuation ±10%
Special voltages	on request
Power consumption	DC: 4,8W, AC: Tightening torque 11,0VA, Holding force 8,5VA
Duty cycle	100% (Continuous operation)
Degree of protection	IP65 according to EN 60529 with correctly mounted device connector (protection against dust ingress and water jets)
Scope of delivery	incl. device socket according to EN175301-803-Form B (formerly DIN43650) or rather Industrial design form - Cable entry M16x1,5
optional	Device connector according to DESINA, connector to vdma

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Additional equipment	Illuminated connector with varistor
Explosion protection optional	Valve: Ex II 2G Ex h IIC T6...T3 Gb / Ex II 2D Ex h IIIC T-20...+195°C Db Pilot valve 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
	Pneumatic actuation
Pilot pressure range	4...8bar
Switching speed	Main valve continuously adjustable via the pilot valve throttles
Control	preferably via 5/2-way pilot valve
Connection diagram	NAMUR, (ISO 1 on request)
Control ports	2/4: G1/4" (1/4" NPT on request)
	Hydraulic actuation
Pilot pressure range	30...60bar
Control	preferably via 4/2-way pilot valve
Control ports	X/Y: G1/4" (1/4" NPT 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
Application note	The technical design of the valves is media- and application-specific, which may result in deviations from the general specifications stated in the data sheet with regard to version, sealing materials and characteristic values. In the event of inaccurate or incomplete ordering information or application data, there is a risk of incorrect technical sizing of the valves for the intended application purpose. 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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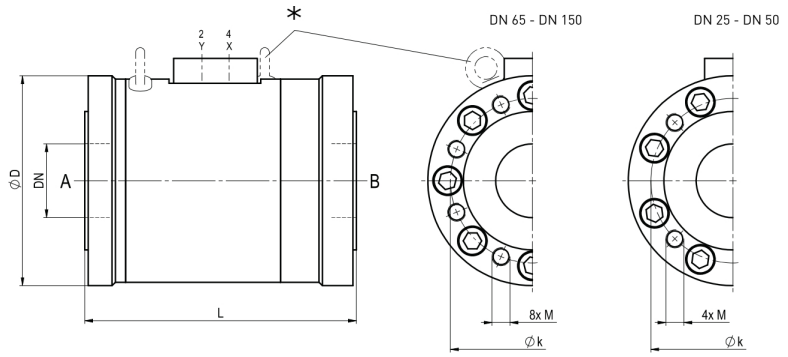
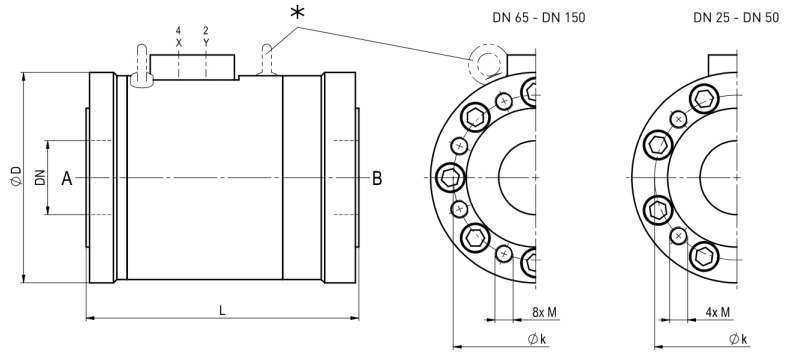
Dimensions

Function NC



Function NO



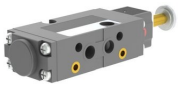
* Eyebolts from DN 80

Nominal size DN[mm]	D [mm]		Øk [mm]		M		L [mm]	Type
	PN16	PN40	PN16	PN40	PN16	PN40		
25	115	115	85	85	M12	M12	170	CVFF-25
32	150	150	100	100	M16	M16	190	CVFF-32
40	150	150	110	110	M16	M16	190	CVFF-40
50	165	165	125	125	M16	M16	200	CVFF-50
65	185	185	145	145	M16	M16	240	CVFF-65
80	200	200	160	160	M16	M16	260	CVFF-80
100	230	235	180	190	M16	M20	350	CVFF-100
125	260	270	210	220	M16	M24	400	CVFF-125
150	295	300	240	250	M20	M24	450	CVFF-150

Nominal size DN[mm]	Switching cycles [1/min]	Switching time [ms]		Air consumption [cm ^{3} /Stroke]	Kv value [m ^{3} /h]	Weight [approx. kg]	Type
		close	open				
25	50	50...3000	50...3000	18	27	4	CVFF-25
32	50	100...3000	100...3000	26	45	6,5	CVFF-32
40	50	100...3000	100...3000	26	45	6,5	CVFF-40
50	50	150...3000	150...3000	47	80	8	CVFF-50
65	50	400...3000	250...3000	77	125	13	CVFF-65
80	50	350...3000	350...3000	120	170	15	CVFF-80
100	40	300...3000	450...3000	285	290	26	CVFF-100
125	30	450...3000	700...3000	515	400	38	CVFF-125
150	20	600...3000	600...3000	640	550	58	CVFF-150

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 ISO 1, 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

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

Illustrations non-binding
Design, dimensional and material changes reserved

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