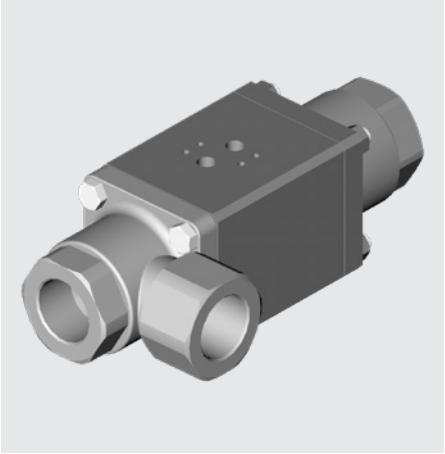
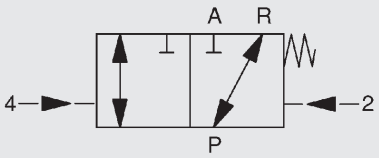
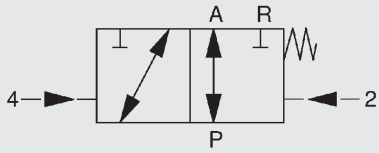
3/2-way coaxial valve
CX06 and CX07 pilot operated



Switching function



NC (closed when de-energised)



NO (open when de-energised)

Order data

- Nominal size
- Connection
- Function NC/NO
- Operating pressure
- Flow rate
- Medium
- Temperature of fluid
- Ambient temperature
- Supply voltage

⚠ If order details or application data are inaccurate or incomplete, there is a risk that the technical configuration of the valves may not be correct for the desired use. This may result in the physical and/or chemical characteristics of the materials or seals used not being adequate for the intended use.

Model code
(also example order)

CX06	3/2	F	C	2	15	064	034	PV

Designation
CX06 = series CX06
CX07 = series CX07

Ways
3/2 = number of ways

Control
F = external pilot

Switching function
C = NC - closed when de-energised
O = NO - open when de-energised*

Body material
1 = free from non-ferrous metals*
2 = brass (standard)
3 = brass, nickel-plated*
4 = 1.4305*
5 = 1.4571*

Nominal size
10 = DN 10
15 = DN 15
20 = DN 20
25 = DN 25
32 = DN 32
40 = DN 40
50 = DN 50

Pressure range
064 = CX06 >0 - 64 bar
100 = CX07 >0 - 100 bar

Connection

014	=	G¼	- DN 10				
038	=	G⅜	- DN 10,	DN 15			
012	=	G½	- DN 10,	DN 15,	DN 20		
034	=	G¾	- DN 10*,	DN 15,	DN 20,	DN 25	
100	=	G1	-	DN 15*,	DN 20,	DN 25,	DN 32
114	=	G1¼	-		DN 20*,	DN 25,	DN 32
112	=	G1½	-			DN 25*,	DN 32, DN 40
200	=	G2	-				DN 50

Option
PV ... = pilot valve (... acc. to accessories)

*optional

Technical specifications

Control	3/2-way valve, pilot operated		
Nominal size	DN 10 to DN 50		
Pressure range (see table)	CX06 – 3/2 CX07 – 3/2	PN 0 to PN 64 PN 0 to PN 100	
Connection	Female threaded connection		
Body material	Brass, nickel-coated brass, 1.4305, 1.4571 on request		
Material of seals	Static: Dynamic: Seat seal:	FKM FKM PTFE PTFE	 CX06 CX07
Back-pressure resistant	up to 16 bar		
Vacuum	Leakage rate $<10^{-6}$ mbar•l/s *		
Media	Gaseous, liquid, contaminated		
Abrasive operating fluids	on request		
Direction of flow	P → A max. 100 bar P → R max. 100 bar		A → P max. 16 bar R → P max. 16 bar
Temperature of medium	-10 °C to +100 °C		
Ambient temperature	-10 °C to +50 °C		
Actuating part	Dual acting piston with return spring		
Mounting position	No orientation restrictions		
Limit switch	Magnetic field sensor*		
Fixing	Mounting bracket*		

Pneumatic part (for pilot valve option)

Control	5/2-way pilot valve
Mounting pattern	Namur
Control pressure	3 to 8 bar
Air requirement	approx. 7 cm^3 / stroke
Pilot ports 2+4	G⅛ at DN 10 G¼ at DN 15 to DN 50
Switching speed	CX valve can be smoothly adjusted by adjusting the supply to the pilot valve
Switching times	Open/close 50 - 1000 ms depending on control pressure, pilot valve and exhaust air throttle

Electrical part (for pilot valve option)

Supply voltage	DC: 24 V AC: 230 V 40-60 Hz
Electrical part	DC: DC magnet AC: DC magnet with integrated rectifier
Connection	Connector plug to industrial standard, model B Connector plug to DESINA M12x1 * Connector with LED (transparent housing) with varistor*
Voltage tolerance	±10 % to VDE 0580
Duty cycle	100 % duty cycle
Protection class	IP 65 when fitted with connector socket

⚠ The material specifications refer exclusively to the valve connection parts in contact with the medium.

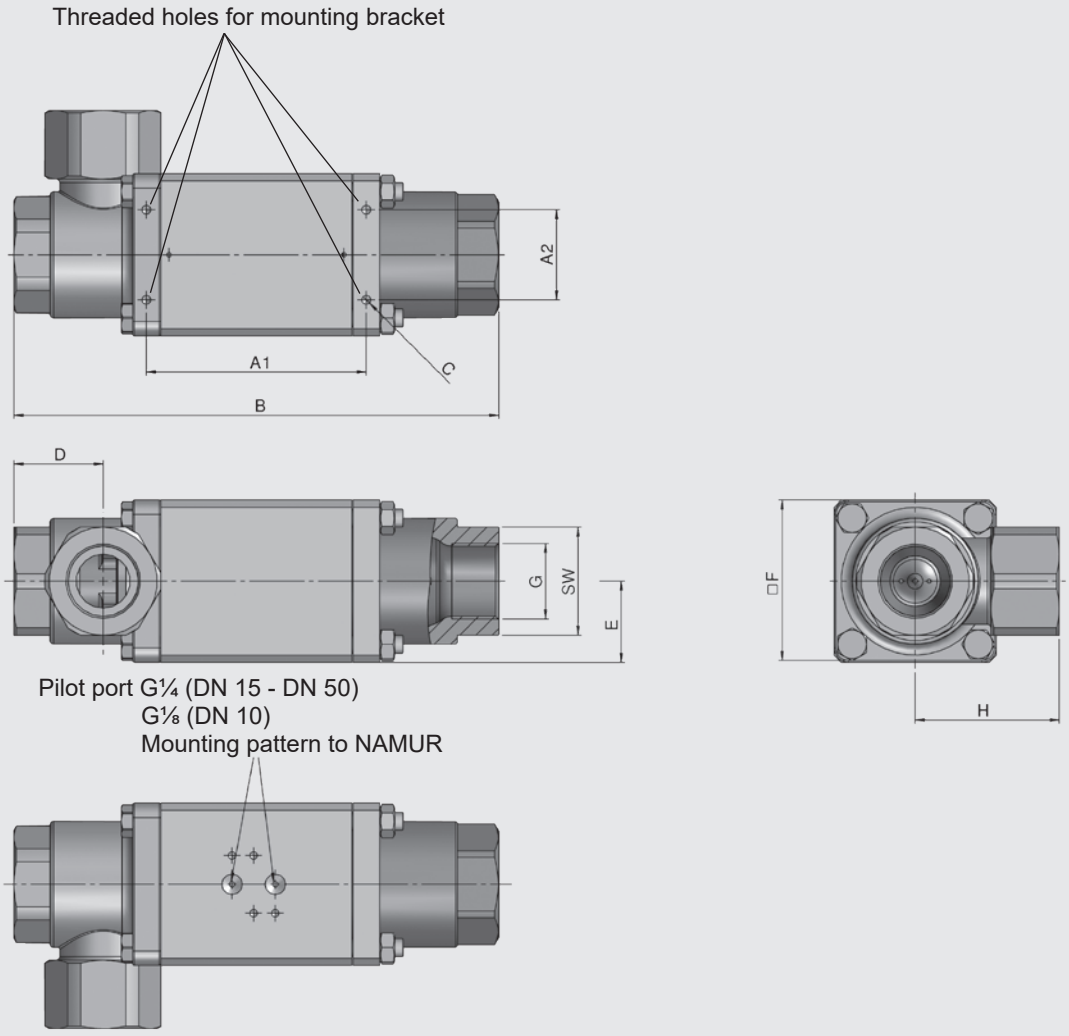
*optional

⚠ The valves are technically configured for specific media and applications. This may result in deviations from the general information given in the data sheet in terms of the design, sealing materials and specifications.

Series	DN [mm]	Pressure [bar]	Connection	Kv value [m³/h]	Weight [kg]
CX06	10	0 – 64	G¼, G⅜, G½	2.5	1.8
	15	0 – 64	G⅜, G½, G¾	6.6	3.2
	20	0 – 64	G½, G¾, G1	10.0	4.6
	25	0 – 64	G¾, G1, G1¼	12.2	6.5
	32	0 – 64	G1, G1¼, G1½	17.9	7.6
	40	0 – 64	G 1½	41.5	12.1
	50	0 – 64	G 2	43.0	12.1
CX07	10	0 – 100	G¼, G⅜, G½	2.5	1.8
	15	0 – 100	G⅜, G½, G¾	6.6	3.2
	20	0 – 100	G½, G¾, G1	10.0	4.6
	25	0 – 100	G¾, G1, G1¼	12.2	6.5
	32	0 – 100	G1, G1¼, G1½	17.9	7.6
	40	0 – 100	G 1½	41.5	12.1
	50	0 – 100	G 2	43.0	12.1

NOTICE: Inserting a maintenance unit upstream will increase the service life of the devices.

Dimensions

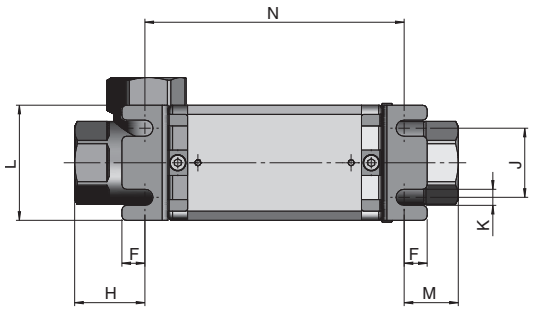


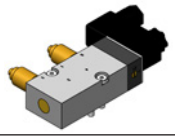
DN	G	SW (AF width)	A_1 [mm]	A_2 [mm]	B [mm]	C	D [mm]	E [mm]	F [mm]	H [mm]
10	G¼, G⅜, G½	32	84	–	166.5	M4	32	25	50	37
15	G⅜, G½, G¾	41	100	–	200	M5	38.5	35	70	60
20	G½, G¾, G1	46	108	–	228	M5	45.5	40	80	72
25	G¾, G1, G1¼	55	121	–	252	M5	48	45	90	80
32	G1, G1¼, G1½	60	122	50	269	M6	49.5	45	90	80
40	G1½	75	131	60	304	M6	56.5	55	110	84
50	G2	75	131	60	304	M6	56.5	55	110	84

Accessories

Mounting bracket
mechanical option = **HW**

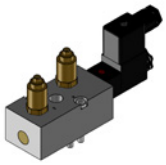
DN	F [mm]	H [mm]	J [mm]	K [mm]	L [mm]	M [mm]
10	10	30.5	30	7	50	113
15	10.5	38.5	45	7	70	139
20	15.3	46.5	50	7	80	149
25	16	40	60	8.5	90	178
32	6	37	78	6.5	115	195
40	6	40	98	6.5	130	224
50	6	40	98	6.5	130	224





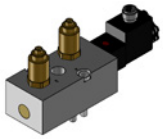
5/2-way pilot valve PV
(Namur)

To use flange connection
Connections on side
24 V DC
230 V 50 Hz



5/2-way pilot valve PV
(Namur)

To use flange connection
connections on top
24 V DC
230 V 50 Hz



5/2-way pilot valve PV
(Namur)

To use flange connection
connections on top
Solenoid M12x1
24 V DC
230 V 50 Hz

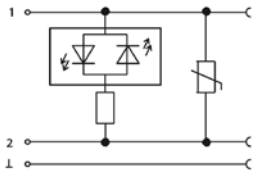
Exhaust air throttle = DR

G1/8
G1/4

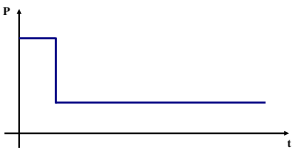
Silencer in sintered bronze = SD

G1/8
G1/4

Female connector with LED
electrical option = **LED**



Female connector with power reduction
24 V DC
Form A
electrical option = **LS**



Special explosion protection
II 2G Ex m II T4
II 3D IP65 T130 °C
electrical option = **EX**

Notice:
The operating pressure is reduced by approx. 20 % on the Ex version.

We would be happy to discuss your requirements for further options and accessories.

NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the relevant technical department.

The operator is always responsible for determining the product suitability for the specific application. Quantified values for product characteristics are average values for a new product that undergo a time deterioration process.

Subject to technical modifications and errors.

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