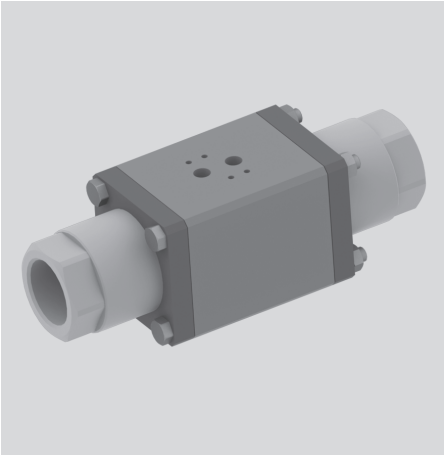
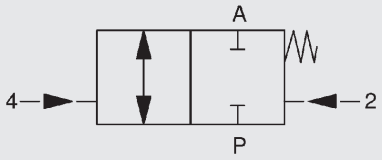
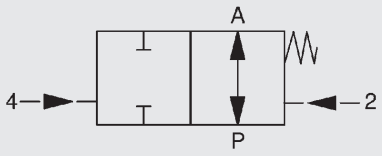
2/2-way coaxial valve
CX06 to CX09 pilot operated



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
- Medium temperature
- 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	2/2	F	C	2	10	064	100	PV

Designation

CX06	=	series CX06
CX07	=	series CX07
CX08	=	series CX08
CX09	=	series CX09

Ways

2/2	=	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 materials*
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
120	=	CX07	>0 - 120 bar
160	=	CX08	>0 - 160 bar
200	=	CX09	>0 - 200 bar

Connection

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

Option

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

*optional

Technical specifications

Control	2/2-way valve, pilot operated		
Nominal size	DN 10 to DN 50		
Pressure range (see table)	CX06 – 2/2	DN 10 to DN 50	PN 0 to PN 64
	CX07 – 2/2	DN 10 to DN 25	PN 0 to PN120
	CX07 – 2/2	DN 32 to DN 50	PN 0 to PN100
	CX08 – 2/2	DN 10 to DN 25	PN 0 to PN160
	CX09 – 2/2	DN 15	PN 0 to PN200
Connections (see table)	Threaded sleeve Flange on request		
Body material	Sleeve version Flange version	Brass, nickel-coated brass, 1.4305, 1.4571 on request	
Material of seals	Static:	FKM	
	Dynamic:	FKM	CX06
		PTFE	CX07, CX08 & CX09
	Seat seal	PTFE	
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	As marked	
	A → 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 plug

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

*optional

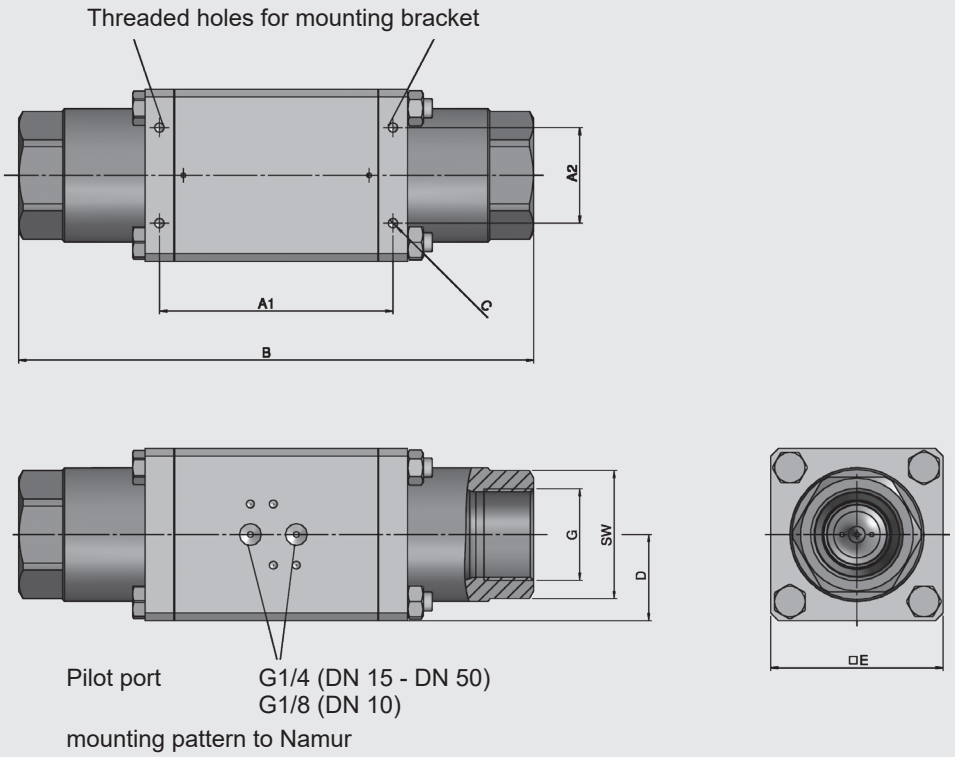
⚠ The valves are technically configured for specific media and applications. This may result in deviations from the general information given in the data sheet in terms of the design, sealing materials and specifications.

Series	DN [mm]	Pressure [bar]	Connection	Kv value [m³/h]	Weight [kg]
CX06	10	0 – 64	G¼, G⅜, G½	2.7	1.6
	15	0 – 64	G⅜, G½, G¾	7.2	2.8
	20	0 – 64	G½, G¾, G1	9.4	4.0
	25	0 – 64	G¾, G1, G1¼	14.5	5.3
	32	0 – 64	G1, G1¼, G1½	20.0	6.9
	40	0 – 64	G1½	45.7	11.7
	50	0 – 64	G2	47.2	11.7
CX07	10	0 – 120	G¼, G⅜, G½	2.7	1.6
	15	0 – 120	G⅜, G½, G¾	7.2	2.8
	20	0 – 120	G½, G¾, G1	9.4	4.0
	25	0 – 120	G¾, G1, G1¼	14.5	5.3
	32	0 – 100	G1, G1¼, G1½	20.0	6.9
	40	0 – 100	G1½	45.7	11.7
	50	0 – 100	G2	47.2	11.7
CX08	10	0 – 160	G¼, G⅜, G½	2.7	1.6
	15	0 – 160	G⅜, G½, G¾	7.2	2.8
	20	0 – 160	G½, G¾, G1	9.4	4.0
	25	0 – 160	G¾, G1, G1¼	14.5	5.3
CX09	15	0 – 200	G⅜, G½, G¾	7.2	3.2

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

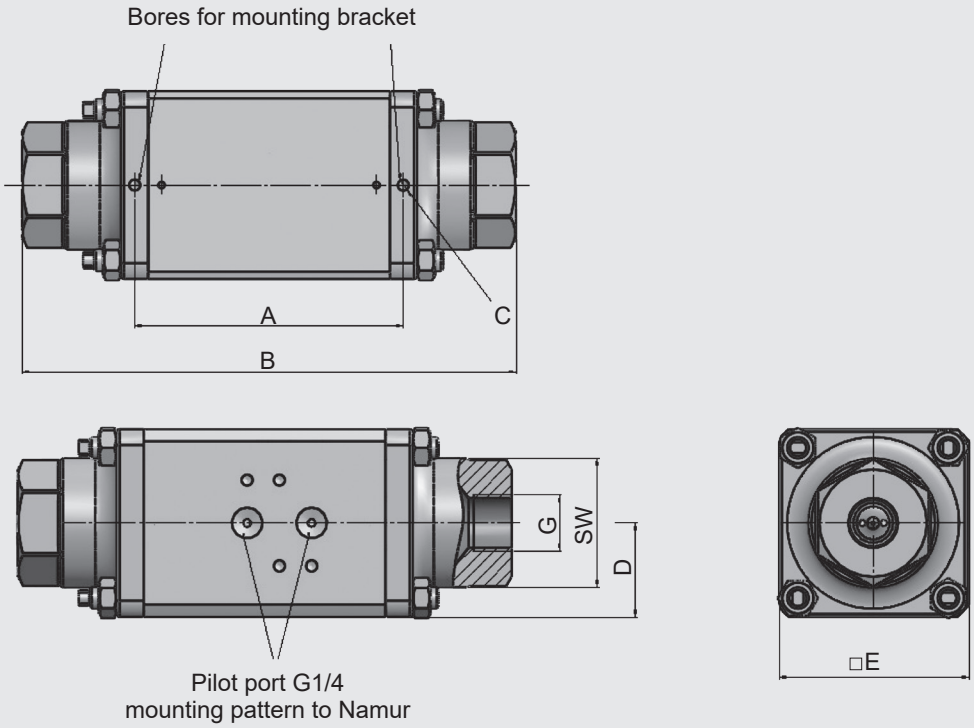
Dimensions

CX06 - CX08



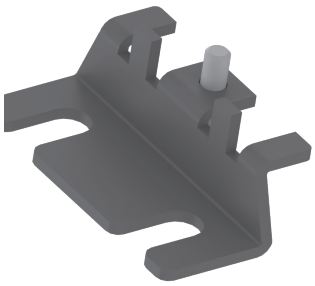
DN	G	SW (AF width)	A_1 [mm]	A_2 [mm]	B [mm]	C	D [mm]	E [mm]
10	G¼, G⅜, G½	32	84	–	159.5	M4	25	50
15	G⅜, G½, G¾	41	100	–	184	M5	35	70
20	G½, G¾, G1	46	108	–	215	M5	40	80
25	G¾, G1, G1¼	55	121	–	246	M5	45	90
32	G1, G1¼, G1½	60	122	50	269	M6	45	90
40	G1½	75	131	60	304	M6	55	110
50	G2	75	131	60	304	M6	55	110

CX09



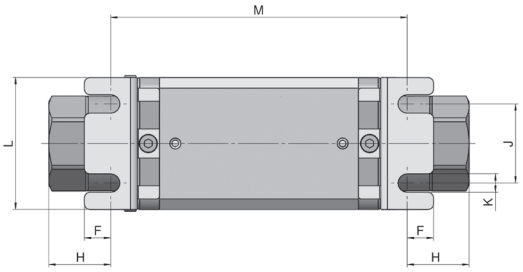
DN	G	SW (AF width)	A [mm]	B [mm]	C	D [mm]	E [mm]
15	G⅜, G½, G¾	50	100	184	M5	35	70

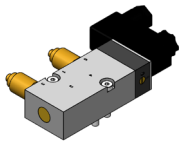
Accessories



Mounting bracket
mechanical option = **HW**

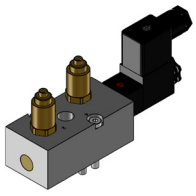
DN	F [mm]	H [mm]	J [mm]	K [mm]	L [mm]	M [mm]
10	10	23.5	30	7	50	113
15	10.5	22.5	45	7	70	139
20	15.3	33.5	50	7	80	149
25	16	34	60	8.5	90	178
32	6	37	78	6.5	115	195
40	6	40	98	6.5	130	224
50	6	40	98	6.5	130	224





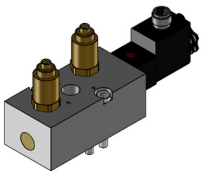
5/2-way pilot valve = PV
(Namur)

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)

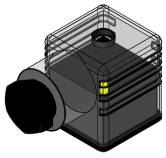
To use flange connection
Connections on top
Solenoid M12x1
24 V DC
230 V 50 Hz

Exhaust air throttle = DR

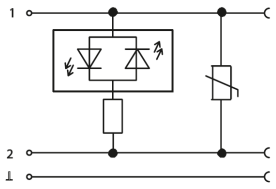
G1/8
G1/4

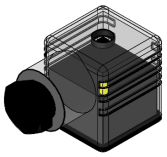
Silencer in sintered bronze = SD

G1/8
G1/4

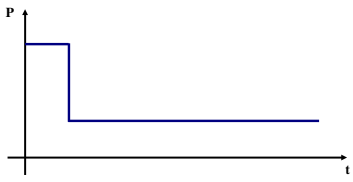


Female connector with LED
electrical option = **LED**





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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