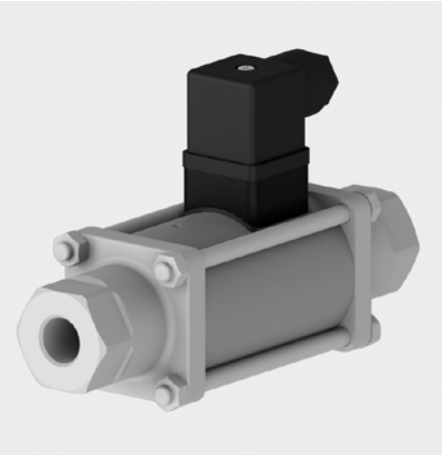
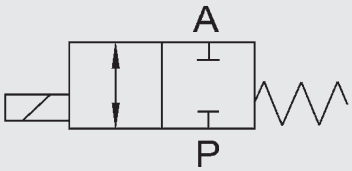
HYDAC INTERNATIONAL

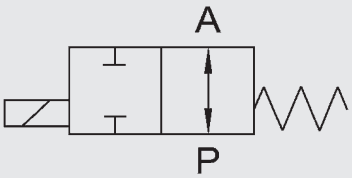
2/2-way coaxial valve
CX02 to CX05 direct acting



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)

CX02	2/2	D	C	2	10	020	014	24V	...

Designation

CX02	=	series CX02
CX03	=	series CX03
CX04	=	series CX04
CX05	=	series CX05

Ways

2/2	=	number of ways

Control

D	=	direct

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* (except for CX02)
5	=	1.4571* (except for CX02)

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

020	=	CX02 > 0 - 20 bar
040	=	CX03 > 0 - 40 bar
064	=	CX04 > 0 - 64 bar
100	=	CX05 > 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

Supply voltage

24V	=	24 V DC
230V	=	230 V AC 40-60 Hz

Special voltages on request

Options

see accessories

*optional

EN 6.176.3/10.19

Technical specifications

Control	2/2-way valve, direct acting	
Nominal size	DN 10 to DN 50	
Pressure range (see table)	CX02 – 2/2 DN10 - 32 CX03 – 2/2 DN10 - 32 CX03 – 2/2 DN40 - 50 CX04 – 2/2 DN10 - 32 CX05 – 2/2 DN10 - 32	PN 0 to PN 20 PN 0 to PN 40 PN 0 to PN 16 PN 0 to PN 64 PN 0 to PN 100
Connections (see table)	Threaded sleeve Flange on request	
Body material	Sleeve version Flange version	Brass, nickel-coated brass, 1.4305, 1.4571 on request
Valve seat (plastic on metal)	FKM PTFE	CX02 / CX03 / CX04 CX05
Material of seals	static: dynamic:	FKM 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 A → P	As marked max. 16 bar
Temperature of medium	-10 °C to +100 °C	
Ambient temperature	-10 °C to +50 °C	
Mounting position	No orientation restrictions	
Limit switch	Inductive*	
Fixing	Mounting bracket*	

Electrical part

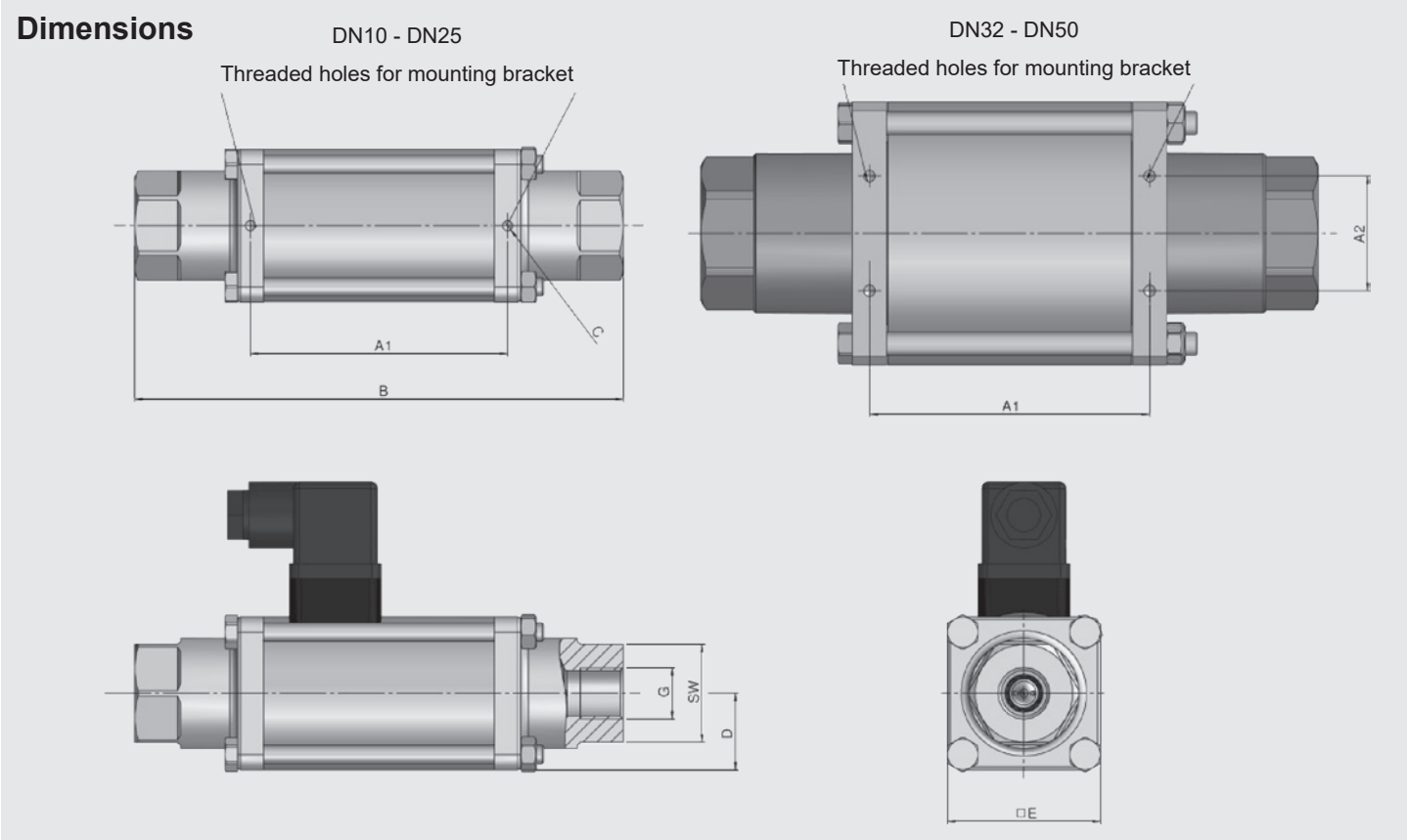
Supply voltage	DC: 24 V AC: 230 V 40-60 Hz
Electrical part	DC: DC magnet AC: DC magnet with integrated rectifier
Connection	Connector plug to DIN EN 175301-803 type A Connector plug to DESINA M12x1 * illuminated plug with varistor *
Voltage tolerance	±10 % to VDE 0580
Duty cycle	100 % duty cycle
Protection class	IP 65 when fitted with connector plug

⚠ The material specification refers 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]	Power consumption [W] 24 V DC	230 V 50 Hz	Weight [kg]
CX02	10	0 – 20	G¼, G⅜, G½	2.5	25	29	1.7
	15	0 – 20	G⅜, G½, G¾	5.2	30	32	3.6
	20	0 – 20	G½, G¾, G1	7.0	34	42	5.4
	25	0 – 20	G¾, G1, G1¼	12.3	51	60	7.1
	32	0 – 20	G1, G1¼, G1½	20.0	73	76	12.6
CX03	10	0 – 40	G¼, G⅜, G½	2.5	35	41	1.7
	15	0 – 40	G⅜, G½, G¾	5.2	40	45	3.6
	20	0 – 40	G½, G¾, G1	7.0	45	53	5.4
	25	0 – 40	G¾, G1, G1¼	12.3	60	68	7.1
	32	0 – 40	G1, G1¼, G1½	20.0	73	76	12.6
	40	0 – 16	G1½	45.7	73	91	18.3
	50	0 – 16	G2	47.2	73	91	18.3
CX04	10	0 – 64	G¼, G⅜, G½	2.5	44	53	1.7
	15	0 – 64	G⅜, G½, G¾	5.2	50	55	3.6
	20	0 – 64	G½, G¾, G1	7.0	53	59	5.4
	25	0 – 64	G¾, G1, G1¼	12.3	77	85	7.1
	32	0 – 64	G1, G1¼, G1½	20.0	73	76	12.6
CX05	10	0 – 100	G¼, G⅜, G½	2.5	44	53	1.7
	15	0 – 100	G⅜, G½, G¾	5.2	50	55	3.6
	20	0 – 100	G½, G¾, G1	7.0	53	59	5.4
	25	0 – 100	G¾, G1, G1¼	12.3	77	85	7.1
	32	0 – 100	G1, G1¼, G1½	20.0	73	76	12.6

Dimensions

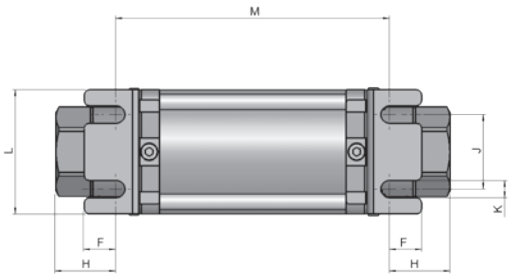


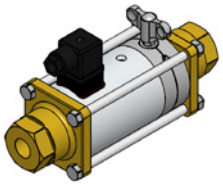
DN	G	SW (AF width)	A1 [mm]	A2 [mm]	B [mm]	C	D [mm]	E [mm]
10	G¼, G⅜, G½	32	84	–	159.5	M4	25	50
15	G⅜, G½, G¾	41	100	–	184	M5	35	70
20	G½, G¾, G1	46	108	–	215	M5	40	80
25	G¾, G1, G1¼	55	121	–	246	M5	45	90
32	G1, G1¼, G1½	60	122	50	269	M6	57.5	115
40	G1½	75	131	60	304	M6	65	130
50	G2	75	131	60	304	M6	65	130

Accessories

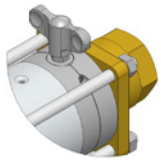
Mounting bracket
mechanical option = **HW**

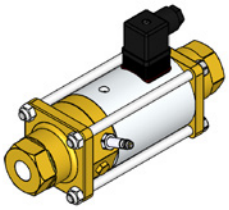
DN	F [mm]	H [mm]	J [mm]	K [mm]	L [mm]	M [mm]
10	10	23.5	30	7	50	113
15	10.5	22.5	45	7	70	139
20	15.3	33.5	50	7	80	149
25	16	34	60	8.5	90	178
32	6	37	78	6.5	115	195
40	6	40	98	6.5	130	224
50	6	40	98	6.5	130	224



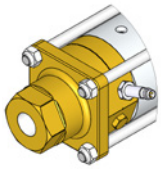


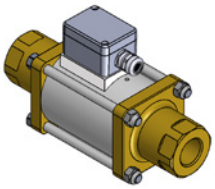
Manual override
mechanical option = **HT**



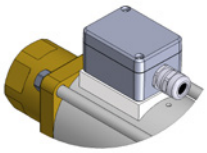


Position indicator, inductive
electrical option = **1I** (open or closed)
electrical option = **2I** (open and closed)

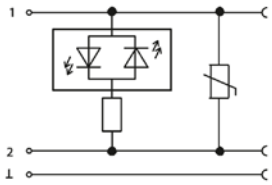




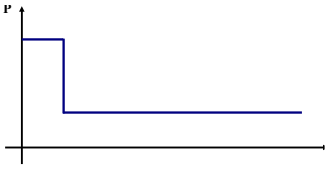
Terminal box
Protection class: IP 65
PG11-screw connection
electrical option = **PG**

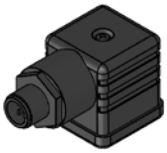


Female connector with LED
electrical option = **LED**



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





Female connector M12x1
electrical option = **M12**

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.

HYDAC Accessories GmbH
Hirschbachstr. 2
66280 Sulzbach/Saar
Tel.: +49 (0)6897 - 509-01
Fax: +49 (0)6897 - 509-1009
Internet: www.hydac.com
E-Mail: accessories@hydac.com