

3/2-WAY COAXIAL VALVE, DIRECTLY OPERATED

**Description:**

- 3/2 way coaxial valve
- pressure relieved, with spring reset, no overlapping
- directly operated
- female thread acc. to ISO228
- duty cycle 100% (VDE0580)
- insulation material class H 180°C
- any installation position, upright solenoid position recommended
- vacuum leak rate $<10^{-6}$ mbar l/s
- compact size because of integrated actuator
- back pressure save on request
- bidirectional flow through on request

Range of application:

- medium temperature -40°C up to +160°C
- ambient temperature: -40°C up to +80°C
- working pressure up to 40bar, no pressure difference needed
- IP65 (with a professionally installed connector socket) according to DIN40050 --> DIN EN 60529
- connector socket according to DIN EN 175301-803, Form A, LED
- for gaseous, liquid, gelatinous, highly viscous, pasty, especially contaminated and aggressive media
- for minimum switching times and extremely long lifetime
- for use with TÜV certificate

Comments:

The technical design of the valves depends on your medium and application. Therefore, please ask for your individual specifications on temperature ranges, characteristics and dimensions.

Other voltage, coil power or sealing on request! Voltage tolerance +5% / -10% with maximum pressure and standard ambient temperature. The valves are available in NC (closed in rest position) and NO (opened in rest position). With integrated or separate rectifier for connection to 24V DC or to 230V AC.

Also available with **TÜV** certificate for connection sizes G1/4" up to G1 1/4", nominal sizes 10-25mm, up to 40bar.

Threads according to EN 228: It describes the threaded connection of a parallel male thread with a parallel female thread and is marked with "G".

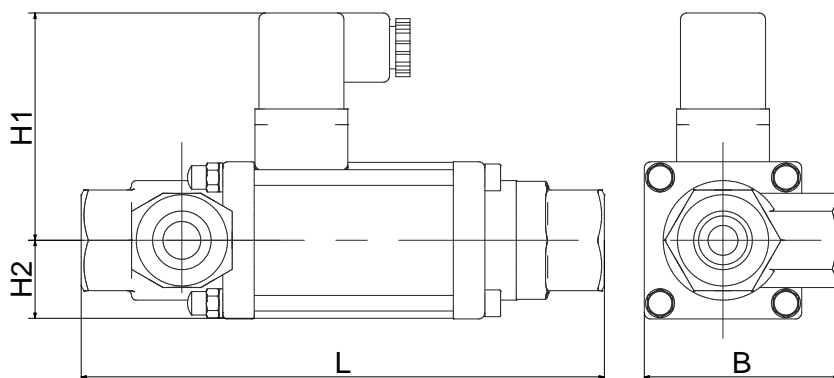
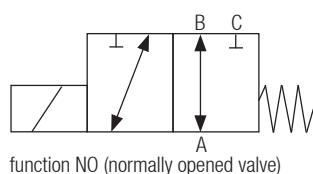
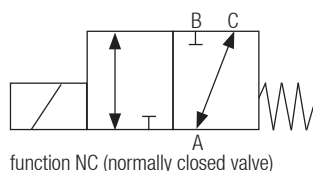
pos.	part	standard	options		
	body	1. brass	A	1. brass nickel plated	E
		2. steel	J	2. alloy	Z
		3. stainless steel	O		
	sealing	media dependent		NBR	B
				PTFE	T
				FKM	V
				EPDM	E
			CR		

For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

options:

- NO: opened in rest position
- HA: manual override
- EX: EXII 2G EEX me II T4 and II D IP65 T 130°C
PTB03 ATEX 2120x
- CV: nickel plated chemically
- NPT: thread
- ZG: 3.1, TÜV
- RS: adjustable close muting
- OF: free of oil and grease
- VU: vacuum design
- TH: higher medium temperature
- BU: free of non-ferrous metal
- GD: back pressure save
- UN: bidirectional flow-through
- HW: fixing bracket

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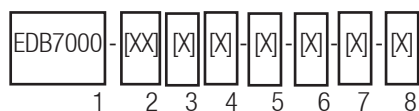
match code	connection [inch]	nominal size [mm]	working pressure** [bar]			L [mm]	H1 [mm]	H2 [mm]	B [mm]	switching time [ms]		weight [kg]	CV value** [m³/h]		power consumption**** [A]	
			max. 16bar	max. 25bar	max. 40bar					open	close		A → B A → C	DC	AC	
EDB7000-02x100-x-x	G 1/4	10	0	0	-	167	72	25	62	40	25	2.2	2.6	1.0	0.13	
EDB7000-03x100-x-x	G 3/8	10	0	0	-	167	72	25	62	40	25	2.2	2.6	1.0	0.13	
EDB7000-03x150-x-x	G 3/8	15	0	0	0	209	81	64	85	80	80	4.3	4.3	1.6	0.15	
EDB7000-04x100-x-x	G 1/2	10	0	0	-	167	72	25	62	40	25	2.2	2.6	1.0	0.13	
EDB7000-04x150-x-x	G 1/2	15*	0	0	0	209	81	64	85	80	80	4.3	4.3	1.6	0.15	
EDB7000-04x100-x-x	G 3/4	10	0	0	-	167	72	25	62	40	25	2.2	2.6	1.0	0.13	
EDB7000-05x150-x-x	G 3/4	15*	0	0	0	209	81	64	85	80	80	4.3	4.3	1.6	0.15	
EDB7000-05x200-x-x	G 3/4	20*	0	0	0	247	86	75	102	110	110	6	6.7	1.56	0.16	
EDB7000-06x200-x-x	G 1	20*	0	0	0	247	86	75	102	110	110	6	6.7	1.56	0.16	
EDB7000-06x250-x-x	G 1	25*	0	0	0	281	92	100	112	130	130	9.2	11.2	2.66	0.36	
EDB7000-07x200-x-x	G 1 1/4	20*	0	0	0	247	86	75	102	110	110	6	6.7	1.56	0.16	
EDB7000-07x250-x-x	G 1 1/4	25*	0	0	0	281	92	100	112	130	130	9.2	11.2	2.66	0.36	
EDB7000-07x320-x-x	G 1 1/4	32	0	0	0	332	104.5	57.5	166	440	250	18	14.1	2.07	0.28	
EDB7000-08x250-x-x	G 1 1/2	25*	0	0	0	281	92	100	112	130	130	9.2	11.2	2.66	0.36	
EDB7000-08x320-x-x	G 1 1/2	32	0	0	0	332	104.5	57.5	166	440	250	18	14.1	2.07	0.28	
EDB7000-08x400-x-x	G 1 1/2	40	0	0	0	332	104.5	57.5	166	520	150	18.5	18.4	2.07	0.28	
EDB7000-09x400-x-x	G2	40	0	0	0	332	104.5	57.5	166	520	150	18.5	18.4	2.07	0.28	
EDB7000-09x500-x-x	G2	50	0	0	0	453	112	65	165	400	400	31.5	28.2	2.8	0.32	

* The bodies of the nominal sizes DN15, DN20 and DN25 have the third connection at the bottom.

* Values suitable for flow direction A → B and A → C. For B → A the pressure difference for bidirectional valves is max. 16bar (option-UN)!

*** **CV-value:** The nominal flow rate CV according to VDI / VDE 2173 is the water quantity in m³/h for the flow direction A->B with the pressure difference $\Delta p = 1$ bar and a medium temperature between +5°C and 30°C.

*** **power consumption:** The values are for the standard versions. For special coils (e.g. temperature coils, option -TH) the values may differ.



Order information:

1: type: EDB7000

2: connection size: 02-09 (see table)

3: body material

- A = brass
- E = brass nickel plated
- J = steel
- O = stainless steel
- Z = alloy

Please ask for field specifications that are not listed in the data sheet, can be requested!

Before installation and the maintenance instructions carefully read the manual, especially the safety instructions to be paid attention to before the installation!

4: nominal size in 1/10mm (see table)

5: working pressure: specification of max. working pressure (see table)

6: voltage:

- 0: 230V AC
- 1: 24V DC
- Other voltage upon request.

7: options (see "options")

8: medium (please specify when ordering!)

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