**Description:**

- 3/2-way coaxial valve
- pressure relieved, with spring return
- pneumatic with 5/2-way pilot valve
hydraulic with 4/2-way control valve (optional)
- female thread ISO228
- compressed air supply NAMUR / ISO 1
- duty cycle 100% (VDE0580)
- insulation material class H 180°C
- optional installation position, preferable standing magnet
- vacuum leak rate $<10^{-6}$ mbar l/s
- compact size by integrated actuator
- on request back pressure save
- on request it can be reciprocally flown through

Application area:

- medium temperature -40°C upto max. +160°C
- ambient temperature -40°C upto max. +160°C
- operating pressure upto 100bar, no difference pressure necessary
- control pressure 4-10bar, switching speed by throttle, infinitely variable
- IP65 (with professional installed connector plug)
DIN40050 --> DIN EN 60529
- box mounting receptacle DIN EN 175301-803, form B, LED
- for gaseous, liquid, gelatinous, highly viscous, pasty, particularly also contaminated and aggressive media
- for shortest switching times, very high life time

Explanation:

The **technical design of the valves is based on media and application requirements**. Therefore please request your individual design for exact information about temperature ranges, feature sizes and dimensions.

Other tensions and coil powers as well as other sealings on request. Tension tolerance +5% / -10% at max. pressure and ambient temperature. Version in NC (rest position closed) and NO (rest position opened) available. For the connection to 24VDC or 230VAC by integrated or separated rectifier.

The valves are also available in **High pressure design upto 200 bar** with flanges PN160 or PN250. Please request.

Thread ISO 228: The norm describes the thread connection of a parallel male thread with a parallel female thread and is marked with „G“.

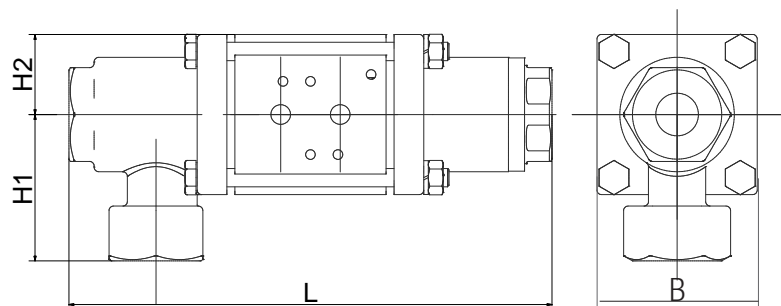
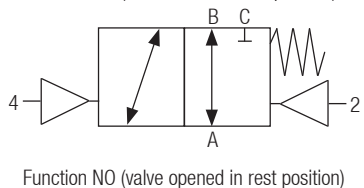
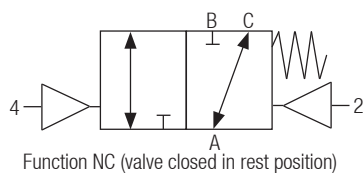
Pos.	Component	Standard		Options	
	Body	1. Brass	A	1. Nickel-plated brass	E
		2. Steel	J	2. Aluminium	Z
		3. Stainless steel	O		
	Sealing	depending on media		NBR	B
				PTFE	T
				FKM	V
				EPDM	E
				CR	

You find information about the appointment code under „Appointment details“. An overview of the complete material code is in the catalog at the beginning of the chapter of the respective product group.

Options:

- NO: opened in rest position
- HA: manual override
- EX: EXII 2G EEX me II T4 und II D IP65 T 130°C
PTB03 ATEX 2120x
- CV: chemical nickel-plated
- NPT: thread
- ZG: 3.1-acceptance
- RS: adjustable close muting
- OF: free of oil and grease
- VU: vacuum design
- TH: higher media temperatures
- BU: non-ferrous metals
- GD: back pressure save
- UN: reciprocally flown through

3/2-WAY COAXIAL VALVE, PRESSURE CONTROLLED



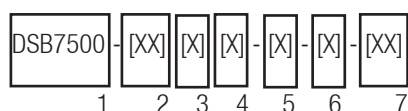
Matchcode	Connection [inch]	Nominal size [mm]	Operating pressure* [bar]				L [mm]	H2 [mm]	H1 [mm]	B [mm]	Switching time**** [ms]		Weight [kg]	Kv-Value*** [m³/h]
			max. 16bar	max. 40bar	max. 64bar	max. 100bar					open min.	close min.		
DSB7500-02x100-x	G 1/4	10**	0	0	0	-	167	30	25	62	30	50	1,8	2,5
DSB7500-03x100-x	G 3/8	10**	0	0	0	-	167	30	25	62	30	50	1,8	2,5
DSB7500-03x150-x	G 3/8	15	0	0	0	0	211	35	64	85	50	50	4,5	5,6
DSB7500-04x100-x	G 1/2	10**	0	0	0	-	167	30	25	62	30	50	1,8	2,5
DSB7500-04x150-x	G 1/2	15	0	0	0	0	211	35	64	85	50	50	4,5	5,6
DSB7500-04x100-x	G 3/4	10**	0	0	0	-	167	30	25	62	30	50	1,8	2,5
DSB7500-05x150-x	G 3/4	15	0	0	0	0	211	35	64	85	50	50	4,5	5,6
DSB7500-05x200-x	G 3/4	20	0	0	0	0	248	40	75	102	50	50	5,8	8,3
DSB7500-06x200-x	G 1	20	0	0	0	0	248	40	75	102	50	50	5,8	8,3
DSB7500-06x250-x	G 1	25	0	0	0	0	281	45	100	112	50	50	8,0	13,3
DSB7500-07x200-x	G 1 1/4	20	0	0	0	0	248	40	75	102	50	50	5,8	8,3
DSB7500-07x250-x	G 1 1/4	25	0	0	0	0	281	45	100	112	50	50	8,0	13,3
DSB7500-07x320-x	G 1 1/4	32	0	0	0	0	304	45	100	112	100	100	8,5	18,9
DSB7500-08x250-x	G 1 1/2	25	0	0	0	0	281	45	100	112	100	100	8,0	13,3
DSB7500-08x320-x	G 1 1/2	32	0	0	0	0	304	45	100	112	100	100	8,5	18,9
DSB7500-08x400-x	G 1 1/2	40	-	-	0	0	400	60	100	155	100	100	18,5	31
DSB7500-09x400-x	G2	40	-	-	0	0	400	60	100	155	100	100	18,5	31
DSB7500-09x500-x	G2	50	-	-	0	0	400	60	100	155	150	150	19,5	43

* Values apply to flow pattern A → B and A → C. For B → A the difference pressure for reciprocall flow through valves can only amount max. 16bar (Option -UN)!

** The cases in the nominal size DN10 have a 3. connection designed at the side.

***KV-Value: The nominal flow of KV to VDI/VDE 2173 indicates the water amount in cubic metres per hour, at 100% opened armature, $\Delta p=1$ bar and at a water temperature from 5 to 30°C.

****The maximal closing time for opening and closing procedures is 3000ms and can be regulated infinitely variable by the throttle at the pilot valve.



Appointment details:

1: Basistype: DSB7500

2: Connection size: 02-09 (see chart)

3: Body material

- A = Brass
- E = Nickel-plated brass
- J = Steel
- O = Stianless steel
- Z = Aluminium

4. Nominal size in 1/10mm (see chart)

5: Operating pressure: Information about the max. operating pressure (see chart)

6: Options (see „Options“)

7: Medium (please indicate in your appointment!)

The technical design of the valves is based on media and application requirements. Therefore please request your individual design for exact information about temperature ranges, feature sizes and dimensions.

Demands on your application conditions that are not listed on the data sheet, can be requested!

The guide book and the maintenace guidelines, particularly the given safety instructions have to be paid attention to before the installation!