**Description:**

- 2/2-way coaxial valve
- direct force operated
- 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 **gegendruckdicht**
- 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
- connector plug 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
- for application with TÜV approval

**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 seperated rectifier.

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

Besides the valves can also be ordered as **module blocks in 1-fold upto 8-fold version** and as **modulsegmente**. Please request these.

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

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

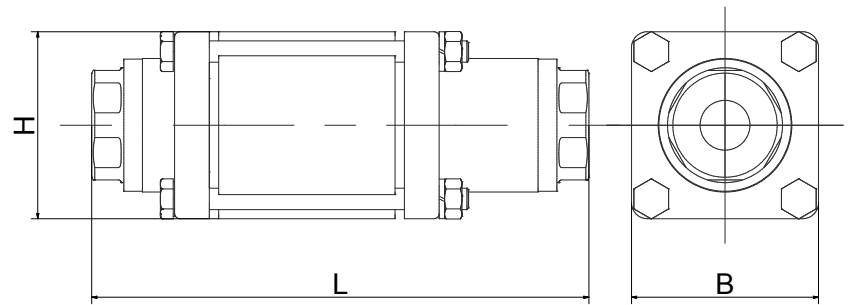
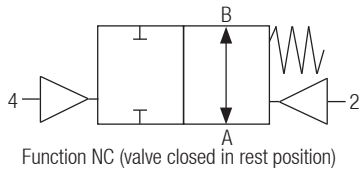
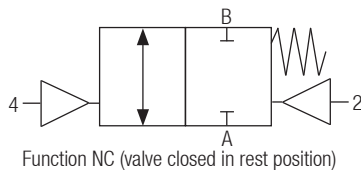
Pos.	Component	Standard		Options	
	Body	1. Brass	A	1. Nickel-plated brass	E
		2. Steel	J	2. Aluminium	Z
		3. Stainless steel	O		
	Sealings	depending on media		NBR	B
				PTFE	T
				FKM	V
				EPDM	E
				CR	

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 and II D IP65 T 130°C  
PTB03 ATEX 2120x
- CV: chemical nickel-plated
- NPT: thread
- ZG: 3.1-acceptance, TÜV
- RS: adjustable close muting
- OF: free of oil and grease
- VU: vacuum design
- TH: higher media temperatures
- BU: non-ferrous metals
- GD: **gegendruckdicht**
- UN: reciprocally flown through

## 2/2-WAY COAXIAL VALVE, PRESSURE OPERATED

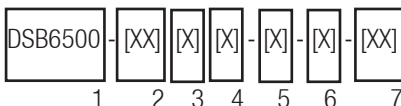


Matchcode	Connection [inch]	Nominal size [mm]	Operating pressure*				L [mm]	H [mm]	B [mm]	Switching time** [ms]		Weight [kg]	Kv-Value*** [m³/h]
			max. 16bar	max. 40bar	max. 64bar	max. 100bar				open min.	close min.		
DSB6500-02x100-x	G 1/4	10	0	0	0	-	160	60	50	30	50	1,7	2,5
DSB6500-03x100-x	G 3/8	10	0	0	0	-	160	60	50	30	50	1,7	2,5
DSB6500-03x150-x	G 3/8	15	0	0	0	0	186	70	70	50	50	3,4	5,7
DSB6500-04x100-x	G 1/2	10	0	0	0	-	160	60	50	30	50	1,7	2,5
DSB6500-04x150-x	G 1/2	15	0	0	0	0	186	70	70	50	50	3,4	5,7
DSB6500-04x100-x	G 3/4	10	0	0	0	-	160	60	50	30	50	1,7	2,5
DSB6500-05x150-x	G 3/4	15	0	0	0	0	186	70	70	50	50	3,4	5,7
DSB6500-05x200-x	G 3/4	20	0	0	0	0	216	80	80	50	50	4,7	8,8
DSB6500-06x200-x	G 1	20	0	0	0	0	216	80	80	50	50	4,7	8,8
DSB6500-06x250-x	G 1	25	0	0	0	0	246	90	90	50	50	6,7	13,3
DSB6500-07x200-x	G 1 1/4	20	0	0	0	0	216	80	80	50	50	4,7	8,8
DSB6500-07x250-x	G 1 1/4	25	0	0	0	0	246	90	90	50	50	6,7	13,3
DSB6500-07x320-x	G 1 1/4	32	0	0	0	0	269	90	90	100	100	7,8	20
DSB6500-08x250-x	G 1 1/2	25	0	0	0	0	246	90	90	100	100	6,7	13,3
DSB6500-08x320-x	G 1 1/2	32	0	0	0	0	269	90	90	100	100	7,8	20
DSB6500-08x400-x	G 1 1/2	40	-	-	0	0	312	120	120	100	100	11,3	31
DSB6500-09x400-x	G2	40	-	-	0	0	312	120	120	100	100	11,3	31
DSB6500-09x500-x	G2	50	-	-	0	0	312	120	120	150	150	12,3	43

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

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

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



## Appointment details:

1: Basistype: DSB6500

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

3: Body material

- A = Brass
- E = Nickel-plated brass
- J = Steel
- O = Stainless 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!)

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

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

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.