**Description:**

- 3/2-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)
- flange connection EN1092,
PN16 / PN40 / PN100
- 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
- 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

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.

Flanges with other norms (e.g. ANSI) on request.

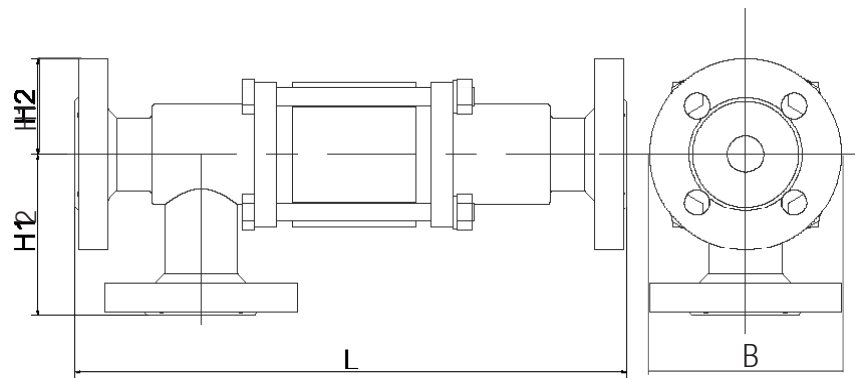
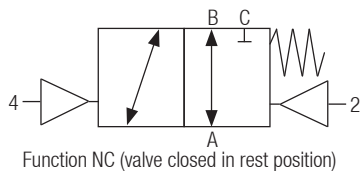
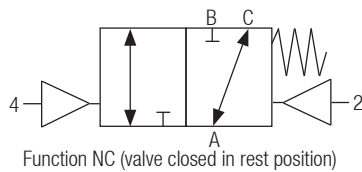
Pos.	Component	Standard	Options
	Body	1. Brass	A 1. Nickel-plated brass E
		2. Steel	J 2. Aluminium Z
		3. Stainless steel	O
	Sealings	depending on media	NBR B
			PTFE T
			FKM V
			EPDM E
			CR

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
- 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 OPERATED, FLANGE DESIGN



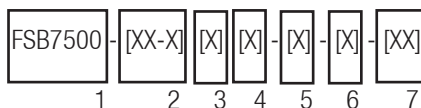
Matchcode	Connection [inch]	Nominal size [mm]	Operating pressure*				L [mm]	B** [mm]	H1** [mm]	H2 [mm]	Switching time*** [ms]		Weight [kg]	Kv-Value**** [m³/h]
			max. 16bar	max. 40bar	max. 64bar	max. 100bar					open min.	close min.		
FSB6500-52-x x150-x	DN15	15	0	0	0	0	267	EN1092	85	50	50	5,3	5,6	
FSB6500-53-x x200-x	DN20	20	0	0	0	0	302	EN1092	88	50	50	7,2	8,3	
FSB6500-54-x x250-x	DN25	25	0	0	0	0	337	EN1092	100	50	50	9,6	13,3	
FSB6500-55-x x320-x	DN32	32	0	0	0	0	365	EN1092	125	100	100	10,2	18,9	
FSB6500-56-x x400-x	DN40	40	-	-	0	0	500	EN1092	163,5	100	100	26,5	31	
FSB6500-57-x x500-x	DN50	50	-	-	0	0	500	EN1092	163,5	150	150	31,4	43	

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

**wide B and height H1 for the valves are defined by the dimensions of the flanges depending on the pressure stages.

*** 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: FSB7500****2: Connection size** (see chart):

- 52-57 DIN EN1092
- 82-87 ANSI
- attached is the pressure stage of the flange :
1 = PN16
3 = PN40
5 = PN100

3: Body material

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

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!

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.