**Description:**

- 2/2 way coaxial valve
- pressure relieved, with spring reset
- pressure controlled
- pneumatic with 5/2-way pilot valve
hydraulic with 4/2-way control valve (optional)
- flange connection according to EN1092,
PN16 / PN40 / PN100
- compressed air supply according to NAMUR / ISO 1
- 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 100bar, no pressure difference
needed
- pilot pressure 4-10 bar, switching speed infinitely
adjustable over restrictor
- IP65 (with a professionally installed connector socket)
according to DIN40050 --> DIN EN 60529
- connector socket according to DIN EN 175301-803,
Form B, 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.

The valves are also available for **high pressure applications up to 200 bar** with flanges PN160 or PN250. Please inquire.

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

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

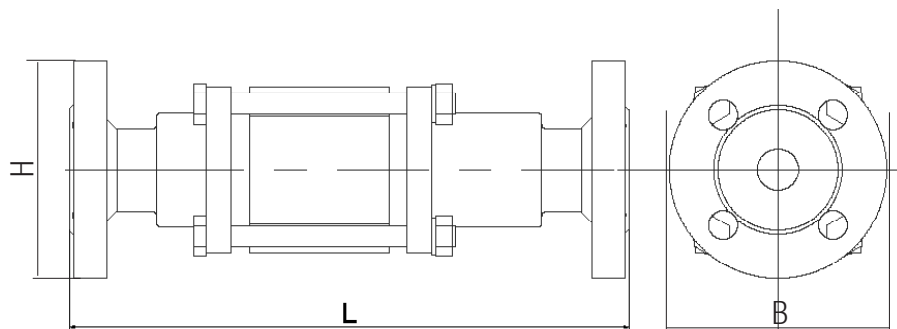
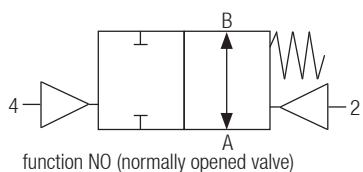
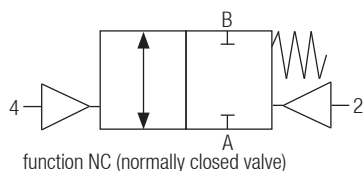
pos.	part	standard	options
	body	1. brass	A 1. brass nickel plated E
		2. steel	J 2. alloy Z
		3. stainless steel	O
	sealing	media dependent	NBR B
			PTFE T
			FKM V
			EPDM E
			CR

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
- CV: nickel plated chemically
- ZG: 3.1 certificate, TÜV certificate
- 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

2/2 WAY COAXIAL VALVE, PRESSURE CONTROLLED, WITH FLANGES

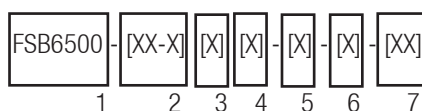


Match code	connection [inch]	nominal size [mm]	working pressure*				L [mm]	H** [mm]	B** [mm]	switching time		weight [kg]	CV value*** [m³/h]
			max. 16bar		max. 40bar					open	close		
			max.	max.	max.	max.							
FSB6500-52-x x150-x	DN15	15	0	0	0	0	243	acc. to EN1092	50	50	5.0	5.7	
FSB6500-53-x x200-x	DN20	20	0	0	0	0	270	acc. to EN1092	50	50	6.7	8.8	
FSB6500-54-x x250-x	DN25	25	0	0	0	0	302	acc. to EN1092	50	50	9.0	13.3	
FSB6500-55-x x320-x	DN32	32	0	0	0	0	325	acc. to EN1092	100	100	11.6	20	
FSB6500-56-x x400-x	DN40	40	-	-	0	0	385	acc. to EN1092	100	100	13.6	31	
FSB6500-57-x x500-x	DN50	50	-	-	0	0	385	acc. to EN1092	100	100	18.7	43	

* Values suitable for flow direction A → B. For bidirectional flow-through valves with flow direction B → A a pressure difference of max. 16bar is allowed only (option-UN)!

** The dimensions of the flanges (width B and height H2) are determined for all valves up to DN40 by the nominal pressure of the flanges.

**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.



Order information:

1: type: FSB6500

2: connection size (see table):

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

3: body material

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

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

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

6: options (see "options")

7: medium (please specify when ordering!)

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.

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!