

2FGB 2-PORT BALANCED PLUG GLOBE CONTROL VALVES

2FGB.B balanced valve bodies are designed for use in air-conditioning, ventilation and heating systems and in industrial process systems; they cannot be used as safety valves.

They can be employed to control fluids belonging to group 2 according to the article 9 of 97/23/CE directive (PED).

Group 2 includes water, overheated water, steam. For fluids belonging to group 2 differing from the ones listed above, please contact our Sales Support.

The important characteristic of such valves is they can operate under high close off pressures and wherever low leakage is required. This makes them particularly suitable in applications with high pressure and high DT, such as overheated water (i.e. district heating, boiler supply) and steam.



Model Type	Model	Description
	2FGB-65B	DN65 2-Port PN16 Globe Valve, Balanced Plug
	2FGB-80B	DN80 2-Port PN16 Globe Valve, Balanced Plug
	2FGB-100B	DN100 2-Port PN16 Globe Valve, Balanced Plug
	2FGB-125B	DN125 2-Port PN16 Globe Valve, Balanced Plug
	2FGB-150B	DN150 2-Port PN16 Globe Valve, Balanced Plug
Technical Data	Nominal Pressure	PN16
	Flanged Connections	PN16 Flanges with ANSI bolt holes
	Control Characteristics	Equal Percentage
	Leakage	0.03% of Kvs
	Temperature Limits	Water: Min. Temp -10°C (with 248 accessory - stem heater); glycol added 50% max. Overheated Water: Max Temp 150°C (temp/pressure ratio according to UNI1092-2 and UNI12516-1 standards) Steam: Max Tmep 150°C; max pressure 200kPa
	Valve Body and Seat	Grey Cast Iron
	Stem	Stainless Steel
	Plug	Brass
	Balancing Gasket	Viton O-ring + Teflon ring
	Stem Packing	EPDM
Design Standards	Control Valves for Heating Plants: UNI 9753 Control Characteristics: IEC 534-2-4 Leakage: According to EN1349	

Maximum Differential Close-Off Pressure (kPa)

Valve Model	PN	DN	KVS	Close-Off Pressures with UniFit Actuators		
				UNIFIT SLA-UF-06 (600N)	UNIFIT SLA-UF-10 (1000N)	UNIFIT SLA-UF-15 (1500N)
2FGB-65B	16	65	63	1080	1600	1600
2FGB-80B		80	100	800	1600	1600
2FGB-100B		100	190	530	1390	1600
2FGB-125B		125	200	350	1040	1600
2FGB-150B		150	300	210	780	1460

Kvs is the flow rate expressed in m³/h of water at a temperature between 5 °C and 40 °C passing through a valve, open at nominal stroke, having a 100 kPa (1 bar) differential pressure.

NOTE In order to avoid wear between plug and seat, we recommend not to exceed the differential pressure of 2 bar.

INSTALLATION

HYDRAULIC CONNECTIONS

Respect the fluid directions: inlet is labelled by AB and outlet.

VALVE MOUNTING

Before mounting the valve, make sure pipes are clean, free from welding slags. The pipes must be perfectly aligned with the valve body and not subjected to vibrations.

For installations on plants with high temperature fluids (steam, overheated water) use expansion joints to avoid the dilatation of pipes to stress the valve body.

In any case, avoid installing the valve in plants which are considered aggressive and/or corrosive for valve materials. Please contact our Sales Support in order to define, which potentially aggressive or polluting substances can be used.

We disclaim all responsibility in case of valve failure due to external fortuitous events (fire, earthquakes etc.).

The valve can be mounted in any position included in the 180° from vertical.

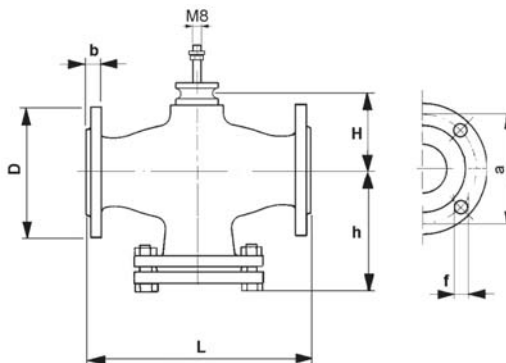
Mount the valves with the actuator in vertical position with fluid temperature up to 120 °C. For higher temperatures, the valves must be mounted horizontally, otherwise the use of the MVHT accessory is required.

Operation

With stem up the valve is in closed position, with stem down the valve is open.

Dimensions

The diagrams below illustrate the dimensions of the 2FGB valves.



Model	DN	L	H	h	D	b	a	f	Holes nr.	Weight [Kg]	Stroke [mm]
2FGB.B (PN16)	65	290	84	175	185	20	145	18	4	18	25
	80	310	94	186	200	22	160	18	8	28	45
	100	350	105	206	220	24	180	18	8	32	45
	125	400	128	255	250	26	210	22	8	45	45
	150	480	146	275	285	26	240	25	8	60	45

Notes: In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.