



APPLICATION AND USE

2FGB.B balanced valve bodies are designed for use in air-conditioning, thermoventilation 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 peculiar 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.

MANUFACTURING CHARACTERISTICS

Valve body and seat	Grey cast iron (EN-GJS-250 EN 1561)
Stem	Stainless steel
Plug	Brass
Balancing gasket	Viton O-ring+ Tefoln ring
Stem packing	EPDM

TECHNICAL CHARACTERISTICS

Nominal pressure PN16

Flanged connections PN16 Flanges with ANSI bolt holes are available on request

Control characteristic Equal percentage

Leakage (Kvs %) 0,03

Weight See overall dimensions

Application limits on fluids		
Water	min. temp.	-10°C (1)
	glycol added	50% max.
Overheated water	max. temp.	150°C (2)
Steam	max. pressure	200kPa
	max. temp.	150°C

(1) See 248 accessory.

(2) Temperature/pressure ratio according to the following standards: UNI1092-2 and UNI12516-1.

Reference standards

Control valves for hot water heating plants: UNI 9753

Control characteristics: IEC 534-2-4

Leakage: Leakage is measured according to the EN1349 standard.



INSTALLATION

HYDRAULIC CONNECTIONS

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

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.

ACCESSORIES

248 stem heater for applications with possible ice formation on stem and packing with MVH, MVF and MVE actuators.

MVHT valve body actuator spacer to reduce the direct exposure of the actuator when installed on a valve with high temperature fluids.

Dimensions: Ø 120 mm; h = actuator height + 102 mm

ACTUATORS TECHNICAL CHARACTERISTICS, WIRING DIAGRAM AND INSTALLATION

See actuators data sheets and mounting instructions.

MOTORIZED VALVES OPTIONS

A125-2 Flanges with ANSI 125 bolt holes

