

Model	DN	PN	Kvs
VBAA25	25	40	10
VBAA32	32		16
VBAA40	40		25
VBAA50	50		40
VBAA65	65		63
VBAA80	80		100
VBAA100	100		160
VBAA125	125		200

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 the nominal stroke, under a 100 kPa (1 bar) differential pressure.

APPLICATION AND USE

VBAA balanced valve bodies are designed for use in air-conditioning, thermoventilation and heating systems and in industrial process and 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 pressure and wherever low leakage is required. This makes them particularly suitable in applications with high pressure and high ΔT, such as overheated water (i.e. remote control, boiler supply) and steam.

OPERATION

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

MAX CLOSE-OFF PRESSURE (bar)

Model	Stroke mm	Actuators			
		MVL	MVLA/C*- SP	SH - ST	PL
VBAA25	16,5	30	30	30	30
VBAA32	25	30	30	30	30
VBAA40		30	30	30	26
VBAA50		30	30	30	21
VBAA65		30	22	30	15
VBAA80	45	30	18	30	-
VBAA100		28	11	22	
VBAA125		22	8	17	

* MVLA in emergency valve closed, MVLC in emergency valve open.

NOTE In order to avoid wear between plug and seat, we recommend not to overcome the differential pressure of 12 bar.



MANUFACTURING CHARACTERISTICS

Valve body	Steel
Seat	Stainless steel
Plug	
Stem	Teflon ring with steel spring
Balancing gasket	
Stem packing	Teflon

TECHNICAL CHARACTERISTICS

Connections PN40 flanges
 Control characteristic Equal percentage
 Leakage (% of Kvs) 0,02
 Weight See overall dimensions

Application limits on fluids

Water: min. temperature: -20 °C⁽¹⁾
 glycol added max 50%
 Overheated water: max temp. 230 °C⁽²⁾
 Diathermic oil: max temp. 230 °C⁽²⁾
 Steam: max pressure 12 bar
 max temperature 230 °C

Reference standards

Control valves for hot water heating plants: UNI 9753
 Control characteristics: IEC 534-2-4

⁽¹⁾ See 245 accessory.

⁽²⁾ Temperature/pressure ratio according to UNI1284 table.

