

M 962

13.06.00

2-PORT BALANCED PRESSURE FLANGED PN 25 (5 ... 150 °C) SEAT VALVES

VB 2.. Eng.



- Body in GGG 40.3 cast iron
- Spindle and plung in stainless steel
- Flanged connections PN 25 ISO 7005/2
- Equipercentage control; control ratio 50: 1
- Leakage rate: 0.05% Kvs

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1. APPLICATION

The VB2.. valves in cast iron are used for closing the hot or superheated water flow in heating and district heating sites.

They are operated by CLQ / CEQ 07.. or CLR / CER 15.. / 03.. linear actuators.. Permitted fluid:

- Superheated hot water max. 150 °C

2. OPERATION

The closing element of the valve is an appropriately-machined plug which, operated by the linear movement of the actuator, blocks the water flow. The plug run varies between 5...10 mm according to the diameter (see table). Control. equipercentage.

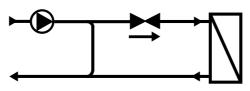
3. MODELS

Code	DN body mm	Kvs ⁽¹⁾ m³/h	Run mm	CLQ/CEQ 07 14 s./mm Suitable actuators CLR/CER 15 15 s./mm		CLR / CER 03 3 s./mm			
				bar (2)	sec (3)	bar (2)	sec (3)	bar (2)	sec (3)
VB 209	15	0.25	5	16	70	16	75	16	15
VB 210	15	0.4	5	16	70	16	75	16	15
VB 211	15	0.63	5	16	70	16	75	16	15
VB 212	15	1.0	5	16	70	16	75	16	15
VB 213	15	1.6	5	16	70	16	75	16	15
VB 214	15	2.5	5	16	70	16	75	16	15
VB 215	15	4.0	5	16	70	16	75	16	15
VB 220	20	6.3	5	16	70	16	75	16	15
VB 225	25	10.0	7	_	_	16	105	16	21
VB 232	32	16.0	10	_	_	16	150	16	30
VB 240	40	25.0	10	_	_	16	150	16	30
VB 250	50	40.0	10	_	-	16	150	16	30

- (1): Kvs Flow coefficient: flow in m³/h with open valve and pressure drop of 100 kPa 100 kPa = 10 mWG = 1 bar
- (2): bar Maximum pressure differential Δp max. permitted by actuator.
- (3): sec Time necessary for actuator to make a complete run of the valve.

4. FUNCTIONAL DIAGRAM

District sites closing





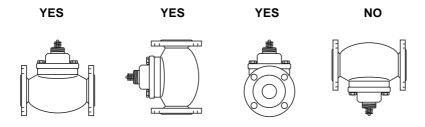
5. TECHNICAL DATA

Valve body Spindle and plug Spindle seals Nominal pressure Fluid temperature GGG 40.3 cast iron stainless steel O-Ring 25 bar (2500 kPa) 5 ...150 °C Run Control features Control ratio Leakage rate Connections 5 ...10 mm equipercentage 50:1 0.05% Kvs flanged PN 25 (ISO 7005/2)

6. MOUNTING

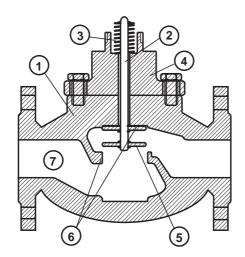
Before mounting the valve ensure that in the pipework there is no extraneous matter such as residues from welding or threading. The pipework must not be subject to vibrations and must be perfectly aligned with the valve connections to avoid dangerous strains which could damage the valve. During installation pay special attention to the direction of the flow, embossed on the valve body, in relation to the hydraulic circuit controlled.

The valve can be installed in any position but with the spindle pointed downwards. When installing make sure you leave enough space for the mounting of the actuator on the spindle side.



7. CONSTRUCTION

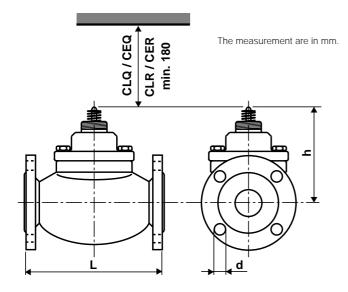
The valve body is made of GGG 40.3 cast iron whereas the spindle and the plug are in stainless steel. The spindle is rendered watertight by two O-Rings held between cleaning rings in teflon. The whole thing is enclosed in a sealing block which is easily replaceable. The spring return is mounted externally on the spindle, above the sealing block. At the top of the valve there is the thread that allows the mounting and fixing of the actuator (CLQ/CEQ-CLR/CER). The valves come with threaded male unions with seals.



- 1 Valve body
- 2 Spindle
- 3 Spring return 4 – Sealing block
- 5 Plug
- 6 Seat
- 7 Fluid entrance

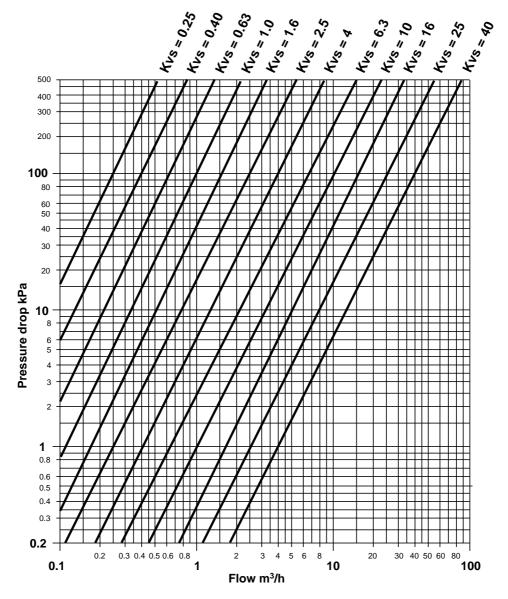


8. OVERALL DIMENSIONS



Model	L	h	d
VB 209 VB 210 VB 211 VB 212 VB 213 VB 214 VB 215 VB 220 VB 225 VB 232 VB 240 VB 250	134 134 134 134 134 134 154 164 184 204 234	99 99 99 99 99 99 99 123 123 123	4 X 14 4 X 18 4 X 18

9. PRESSURE DROP



Kvs = flow coefficient : flow in m^3/h with open valve and pressure drop of 100 kPa. 100 kPa = 10 mWG = 1 bar







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