2-PORT FLANGED SEAT VALVES PN 25 (1...120 °C), PN 20 (120...200 °C)

VE 2.. Eng.

• GGG 40.3 cast iron body; stainless steel spindle, seat and plug • Flanged connections PN 25 (ISO 7005/2)



CE

M 952 11.07.06 LB

1. APPLICATION

VE.. valves are designed for controlling the ow of hot or superheated water (max. 200°C) or steam (max.6 bar) in heating or air-conditioning plants. Powered by linear actuators of type CLF ... or CEF D16 (with spring-return closure).

2. OPERATION

The control component of the valve is a shaped plug, which, operated by the linear movement of the spindle, controls the ow between the A port (input) and the AB port (output).

3. MODELS

Code	DN body	Kvs ⁽¹⁾ m³/h	Run mm.	CLF 16 CLF 04 CEF D16 ⁽⁵⁾ 1,000 N 600 N 450 N 11 s/mm 3 s/mm 11 s/mm						
VE 225 VE 232 VE 239 VE 248	25 32 40 50	10 16 20 25	7 10 10 10	bar ⁽²⁾ 10 9 6 6	s ⁽³⁾ 77 110 110 110	bar ⁽²⁾ 8 6 6 6	s ⁽³⁾ 21 30 30 30	bar ⁽²⁾ 6 6 6 6	bar ⁽⁴⁾ 6 6 6 6	s ⁽³⁾ 77 110 110 110

4. ACCESSORIES

Code	Description
ADS E12	Actuator spacing collar (12 cm) for uid with temperature above 150°C.

100 kPa = 10 mWG = 1 bar

(1): Kvs – Flow coefficient: Flow in m³/h with valve open and pressure drop of 100 kPa.

(2) : bar – Maximum differential pressure Δp max. with hot or superheated water permitted by actuator.

(3): s - Time in seconds necessary for actuator to make a complete valve run.

(4) : bar – Maximum differential pressure Δp max. with steam permitted by actuator.

(5) : actuator with spring-return closure.



5. TECHNICAL DATA

Valve body Spindle Seat Plug Spindle seals Connections Nominal pressure

GGG 40.3 cast iron stainless steel stainless steel stainless steel PTFE anged PN 25 (ISO 7005/2) 25 bar at 120 °C ; 20 bar at 200 °C

Fluid temperature Maximum vapour pressure Run: DN 25 DN 32...50 Control characteristic Control ratio Let by 1...200 °C 6 bar

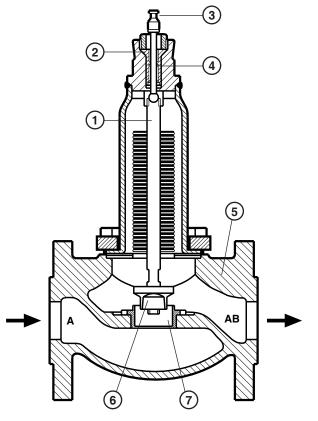
7 mm 10 mm linear 50:1 0.05 % Kvs

6. CONSTRUCTION

The valve body is made of GGG 40.3 cast iron; the spindle, seat and plug of stainless steel.

The spindle is hydraulically sealed by self-cleaning gaskets enclosed in an easily-replaceable sealing block. At the head of the spindle is a groove for insertion in the coupling block of the actuator.

- 1 Spindle 2 – Sealing block
- 3 Groove for attachment to actuator
- 4 Te on seals
- 5 Valve body
- 6 Plug
- 7 Seat
- A Input port AB – Output port

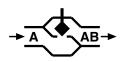


7. MOUNTING

Before mounting the valve ensure that there is no extraneous material in the pipework such as residues from welding or threading.

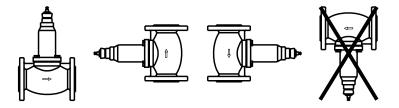
The pipework must not be subject to vibrations and must be perfectly aligned with the valve connections in order to avoid dangerous stresses.

To avoid vibration problems it is preferable always to mount the valve so that water ows out of the AB port (9. EXAMPLES OF PLANTS).





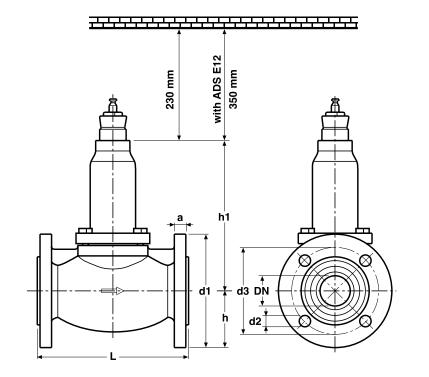
The valve can be installed in any position except that with the spindle pointing downwards. Leave sufficient space on the spindle side for mounting the actuator (8. OVERALL DIMENSIONS).

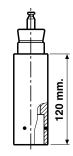


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(COSTER)

8. OVERALL DIMENSIONS

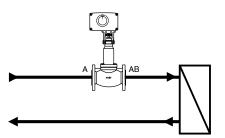




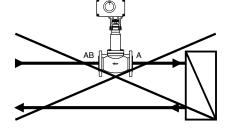
ADS E12

Model	DN	L	d1	d2	d3	a	h	h1	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	kg
VE 225 VE 232 VE 239 VE 248	25 32 40 50	160 180 200 230	115 140 150 165	4 x 14 4 x 18 4 x 18 4 x 18 4 x 18	85 100 110 125	16 18 18 20	57.5 70 75 82.5	176 197 197 197	5.5 9.2 9.9 12.5

9. EXAMPLES OF PLANTS

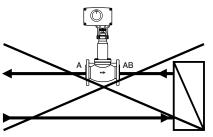


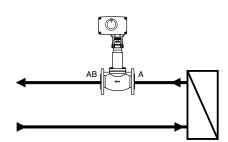
Mounting on ow



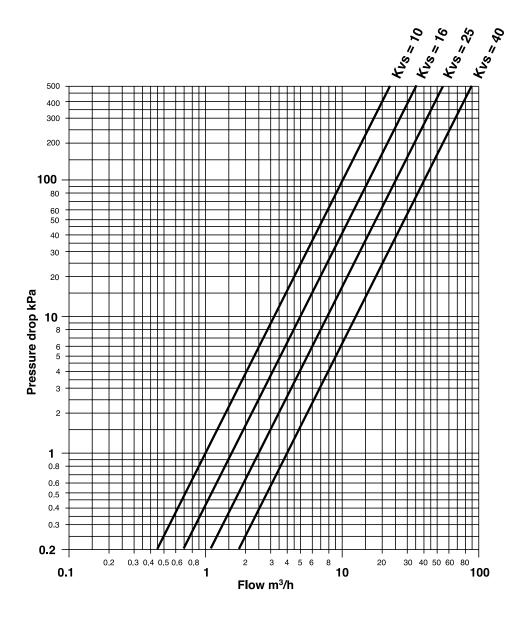
Mounting on return

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10. PRESSURE DROP



Kvs = Flow coefficient: Flow in m³/h with valve open and pressure drop of 100 kPa. 100 kPa = 10 mWG = 1 bar

Amendments to data sheet

from version	to version	Page Section			Details of amendments				
			+ +						
23.01.03 LB	11.07.06 LB	1 3. VERSIONI		NI	Amended code of suitable actuator CEF.				
0007			fice & Sales						
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