



The VHR zone valve is intended for zone control systems. Together with thermal actuator VMC24/VMC230 the valve can control water flow to cooling- as well as heating batteries.

- * Sizes from DN10 up to DN32
- * Adjustable Kvs between 0,01...1,1
- * Differential pressure up to 350 kPa
- * Compact design

Function

The valve series FVR is intended for use together with thermal actuator and controller/thermostat to control temperatures in heating- and cooling systems as, for example, radiators, convectors, cooling-ceilings etc.

Description

The valves are delivered with a grey protection-cap. During the system installation the protection-cap can be used to manually open/close the valve. Turning the cap clockwise to its end position closes the valve. The grey colour signifies that the valve has pre-settable Kvs.

Actuator

The actuator VMC24/VMC230 connects to the valve with its connection nut.

N.B. The actuator and the valve should be mounted with the actuator above the valve.

Adjusting the Kvs-value

The FVR...-series has a setting device hidden under the packing-box. Adjustment is made using adjustment spanner *FN2* to open a certain numbers of revs according to a pressure-drop diagram.

Material

The actuators are made of chromed brass.

Models

Model	Connection	Kvs-value (adjustable)	Max. diff. pressure
FVR10	DN10 3/8"	0,01...0,9	150 kPa
FVR15	DN15 1/2"	0,01...0,9	150 kPa
FVR20	DN20 3/4"	0,01...1,1	150 kPa

Accessories

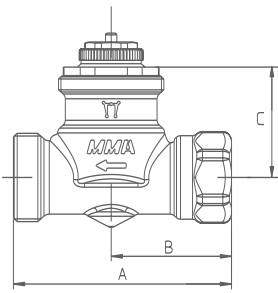
FN 2	Pre-adjustment spanner
FV 5	Pre-adjustment tool

Technical data

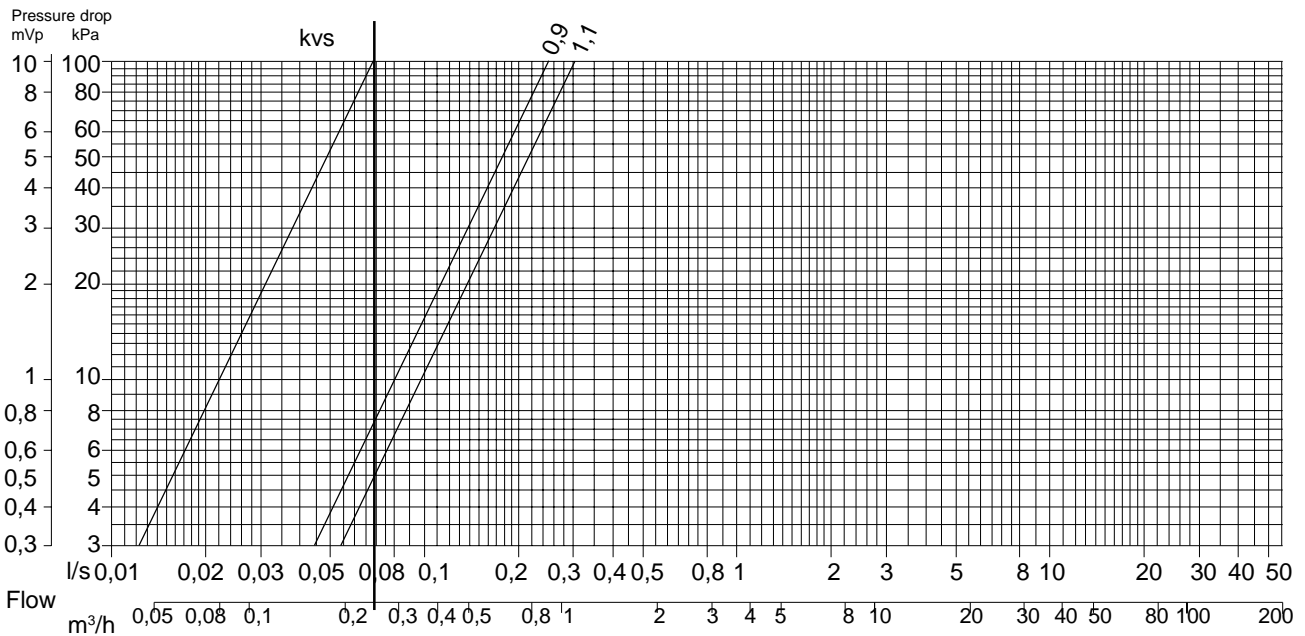
Pressure rating	PN10
Fluid temperature	2...90°
Max. static pressure	1.5 MPa
Stroke	1.7 mm
Material	Brass 5170

Dimensions

	A	B	C	Weight
FVR10	51	29	33	150 g
FVR15	58	32	33	180 g
FVR20	68	35	30	275 g



measurements in mm



These valves have adjustable Kvs value.
 To obtain a curve for a lower setting than the drawn max-values:
 Kvs = Flow i m³/h at a pressure drop of 100 kPa.
 Draw a vertical line through the flow-value.
 Draw an angled line through the point where the previous line intersects the top of the diagram (100 kPa).
 The line should be parallel to the predrawn max-values.
 Drawn example: Kvs = 0,25

FOR INDOOR CLIMATE WITH OPTIMUM CONTROL

AB Regin

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