



# FVR

## Zone valve

The FVR zone valve is intended for zone control systems together with the thermal actuators in the RTA series. The valve can control water flow to cooling as well as heating batteries.

- Sizes from DN10 up to DN20
- Adjustable kvs between 0.01...1.1

### Function

The FVR valve series is intended to be used together with the thermal actuators in the RTA series and a controller/thermostat for controlling temperatures in heating and cooling systems, such as 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 RTA... actuator connects to the valve with its connection nut.

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

- Differential pressure up to 350 kPa
- Compact design

### 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.

### Connections

Different connection kits can be ordered for the valves, see Regin's product catalogue under Valves.

## Models

Model	Size	Connection		Kvs-value (adjustable)	Max. diff. pressure
		Female threaded	Male threaded		
FVR10	DN10	3/8"	M22 x 1.5	0.01...0.9	50 kPa
FVR15	DN15	1/2"	M26 x 1.5	0.01...0.9	150 kPa
FVR20	DN20	3/4"	M34 x 1.5	0.01...1.1	150 kPa

### Accessories

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

### Technical data

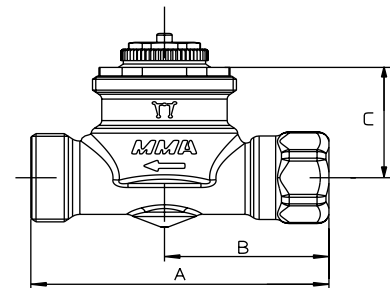
Fluid temperature	2...90°C
Max. static pressure	1.5 MPa
Stroke	1.7 mm
Connection, actuator	M28 x 1.5

### Material

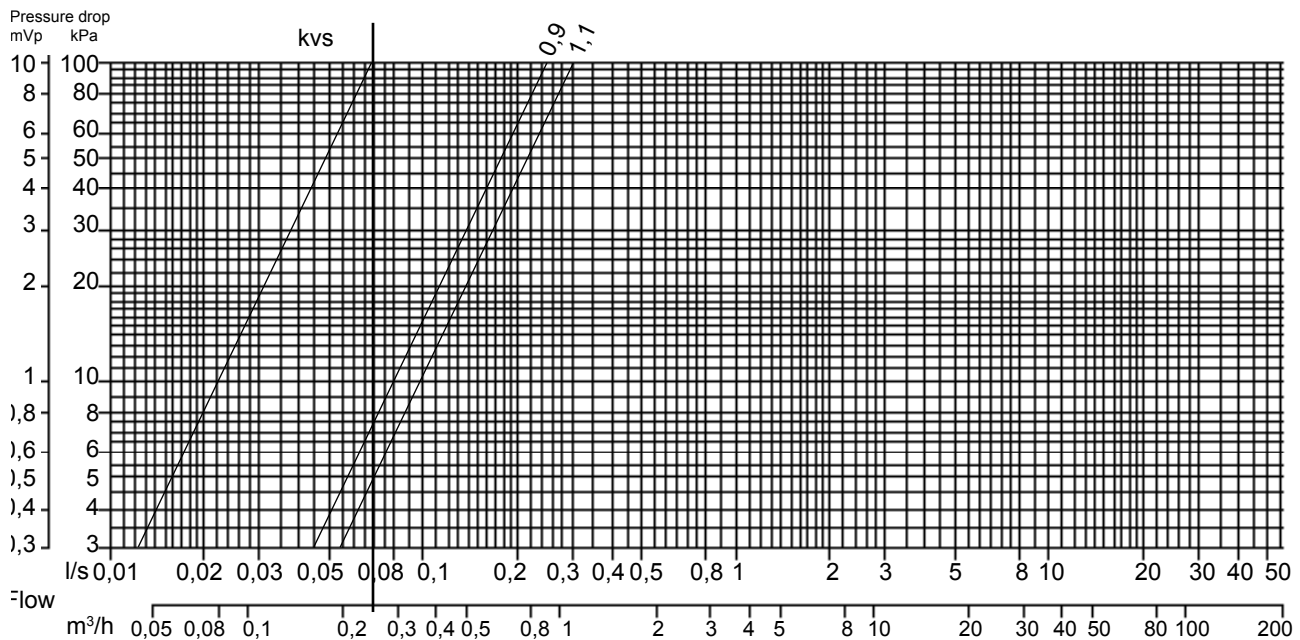
Body	Brass
Bonnet, Seat	Brass
Stem	Stainless steel
Fitting seal	EPDM

### 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:

$Kvs = \text{Flow in m}^3/\text{h at a pressure drop of 100 kPa.}$

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:  $Kvs = 0,25$

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