



Four-port Radiator Valves

for two-pipe systems

**VYC6...
VUC515**

Radiator valve consisting of reversed angle valve and two-pipe valve for floor or wall connection and connecting pipe with matching fittings.

Use

The radiator valves are used in hot water heating systems for individual room temperature control and limitation by means of thermostatic heads or electric actuators. They are basically recommended in all rooms, especially in rooms with heat gains or different temperature levels.

Function

All valves are supplied with a protective cover which allows shutoff and manual adjustment when the system is pressurized, or enables the plant to be temporarily operated during the construction phase.

Type summary

R dia.	Type reference	Description
½"	VYC615	Two-pipe valve for floor connection
½"	VYC625	Two-pipe valve for wall connection
½"	VUC515	Reversed angle valve
15	AVC515-60	Connecting pipe, copper, nickel-plated, 60 cm long, 15 mm dia.
15	AVC515-80	Connecting pipe, copper, nickel-plated, 80 cm long, 15 mm dia.
15	AVC515-90	Connecting pipe, copper, nickel-plated, 90 cm long, 15 mm dia.
15	AVC515-110	Connecting pipe, copper, nickel-plated, 110 cm long, 15 mm dia.
15	AV15-CC15	Compression fitting, integrated in the valves
12	AV15-CC12	Compression fitting for copper pipe, 12 mm dia., box with 50 pieces
14	AV15-CC14	Compression fitting for copper pipe, 14 mm dia, box with 50 pieces
15	AV15-CC15	Compression fitting for copper pipe, 15 mm dia, box with 50 pieces
16	AV15-CC16	Compression fitting for copper pipe, 16 mm dia., box with 50 pieces
12	AVC15-CP12	Compression fitting for plastic pipe, 12 mm dia., box with 50 pieces
16	AVC15-CP16	Compression fitting for plastic pipe, 16 mm dia., box with 50 pieces

Equipment combinations

Suitable for use with the thermostatic valve heads RT56.05, RT56.15, RT76.052 and RT86.2.

Refer to data sheets N2143, N2144 and N2156.

Technical design

- The pre-adjusted gland can also be replaced when the system is under pressure
- Using the AV225 mounting tool, the whole valve insert can be checked and / or replaced without draining the system
- Determination of the length the nickel-plated connecting pipe of 15 mm dia.: effective pipe length = distance of radiator threads minus 44 mm

Mechanical design

These valves allow the flow rate to be pre-adjusted by limiting the stroke (kv-value). A pre-adjusting screw with the reference numbers 1 to 7 is located under the protective cover.

The special design and material of the valve plug allow perfect flow control and tight shutoff.

Engineering notes

The valves come pre-adjusted or with a flow limitation by means of stroke limitation. Pre-adjustment facilitates proper hydraulic balancing of the system, which means that the radiator always will receive the right amount of water.

Mounting notes

The threads are coated with stop-“drop“ sealing compound, facilitating straightforward fitting with no need for additional sealing materials.

Installation notes

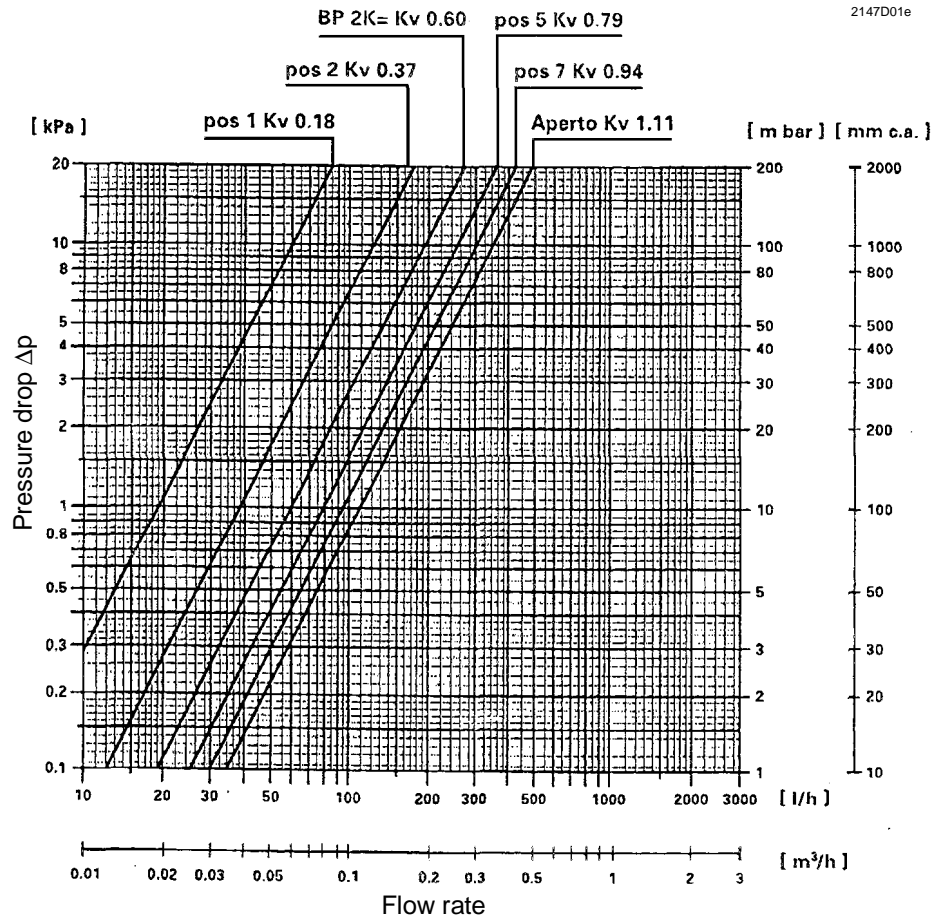
- Observe the installation choices and conditions to ensure the thermostatic heads will function correctly
- Allow room air to freely circulate around the sensor
- The sensor may not be exposed to direct solar radiation
- The valves should be installed horizontally whenever possible
- When removing the radiators, remove the protective cover from the changeover valve and use an Allen key to turn the screw until the stop is reached, thus shutting down the return. The adjustment can also be used to limit the return flow. The flow is closed by the thermostatic valve

Technical data

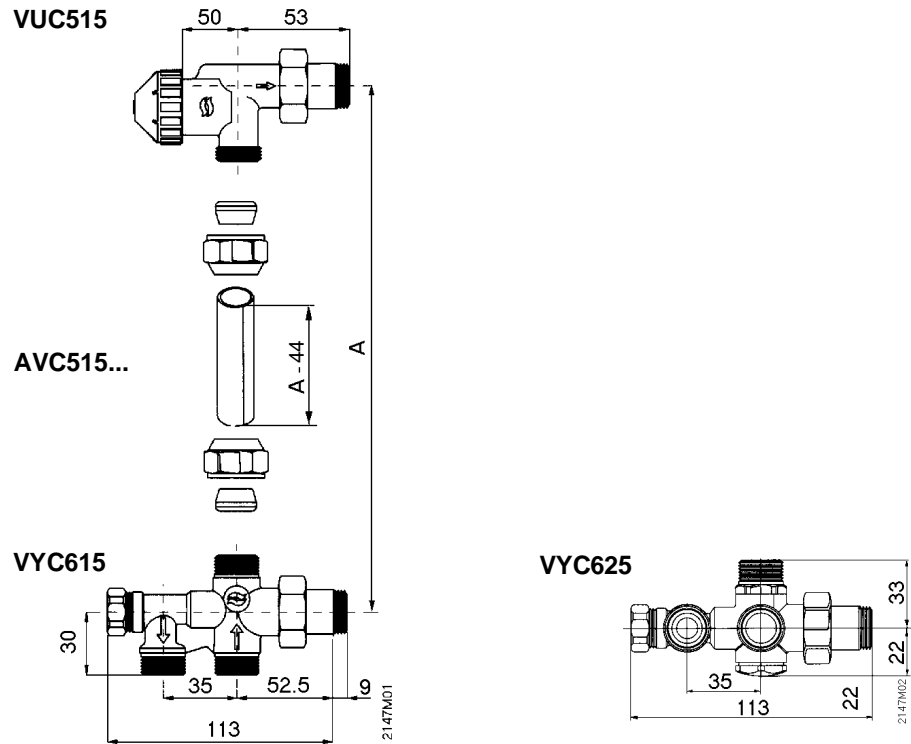
General data

Flow temperature	2 °C to max.110 °C
Operating pressure	max. 10 bar
Closing pressure	max.1.5 bar
Differential pressure	0.01-0.06 bar (recommended range)
Material of valve body	brass Cu Zn 40 Pb2
Material of tailpiece	brass Cu Zn 40 Pb2
Radiator connection	R1/2”
Max. flow rate	1.4 m ³ /h
Surface	nickel-plated
Tailpiece	nickel-plated, with “stop-drop“ seal and O-ring
Protective cover	polypropylene
Length	DIN 3841
Thread	DIN 2999
Medium	heating water with max. 40 % ethylene-glycol

Sizing chart



Dimensions



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Subject to change