



EN 215-1



Straight valves VDN...M



Angle valves VEN...M



Radiator Valves

for manual operation in 2-pipe heating systems

VDN...M
VEN...M

- Valve bodies made of brass, mat nickel-plated
- DN10, DN15 and DN20
- Without presetting of the k_{vs} -values
- Internally and externally threaded (Rp/R) conforming to ISO 7/1
- Manual knob

Use

The radiator valves are used in hot water heating plant for manual room or zone temperature control and limitation. They are basically recommended in all rooms with only small heat gains or in rooms with no comfort requirements.

Type summary

Type reference straight	Type reference angle	DN	k_v - value [m^3/h] setting range VDN...	k_v - value [m^3/h] setting range VEN...
VDN10M	VEN10M	10	0...1.58	0...2.46
VDN15M	VEN15M	15	0...2.50	0...2.88
VDN20M	VEN20M	20	0...3.65	0...5.34

Ordering

When ordering, please give quantity, product name and type reference.

Example: 2 straight valves VDN20M

Delivery

Valves and accessories are packed separately.

Engineering notes

The direction of flow must always be from the internally threaded to the externally threaded port.

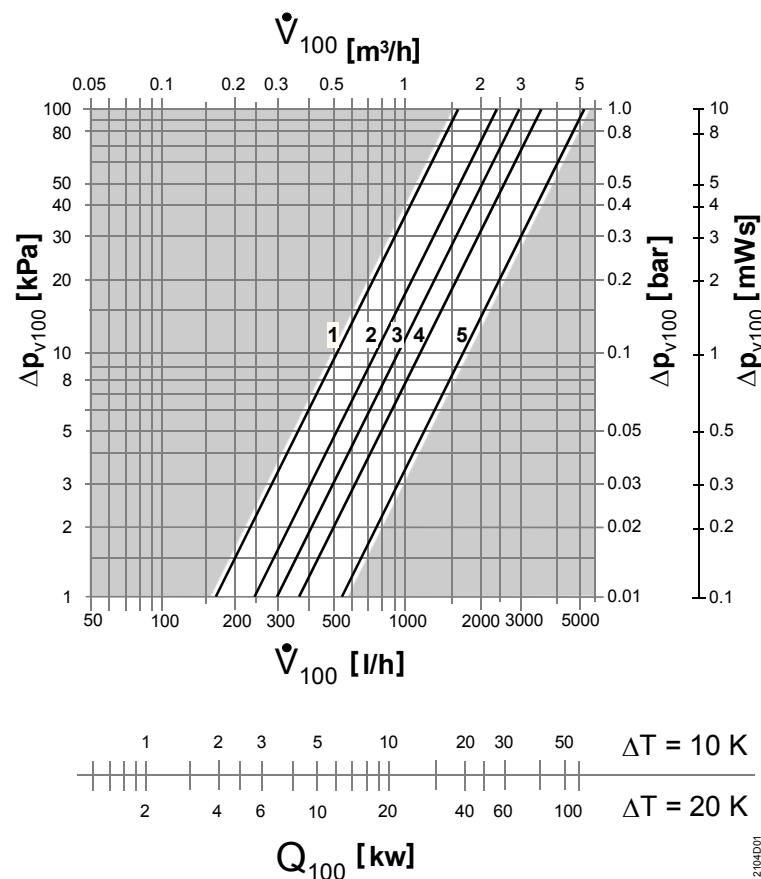
The size of valve (externally threaded R) depends on the size of radiator. The volumetric flow can be adjusted by presetting the lockshield valve in the return.

Tips

- Low-noise operation will be ensured by choosing a pump that delivers no more pressure than that needed to pump the required amount of water
- To prevent dirt particles from reaching the valve, it is recommended to install a strainer in the plant

Valve sizing chart

- 1: VDN10M
- 2: VDN15M
- 3: VEN10M
- 4: VEN15M
- 5: VDN20M
- 6: VEN20M



Notes

Mounting

- Mounting Instructions are printed on the package
- The valves are supplied fully open

Orientation

Optional

Maintenance

The valves are maintenance-free.

Repair

The valves cannot be repaired; the complete unit must be replaced.

Disposal



The valve must not be disposed of together with domestic waste.

Legislation may demand special handling of certain components, or it may be sensible from an ecological point of view.

Current local legislation must be observed.

Warranty

Application-related technical data must be adhered to.

If not observed, Siemens Building Technologies / HVAC Products will not assume any responsibility.

Technical data

Functional data

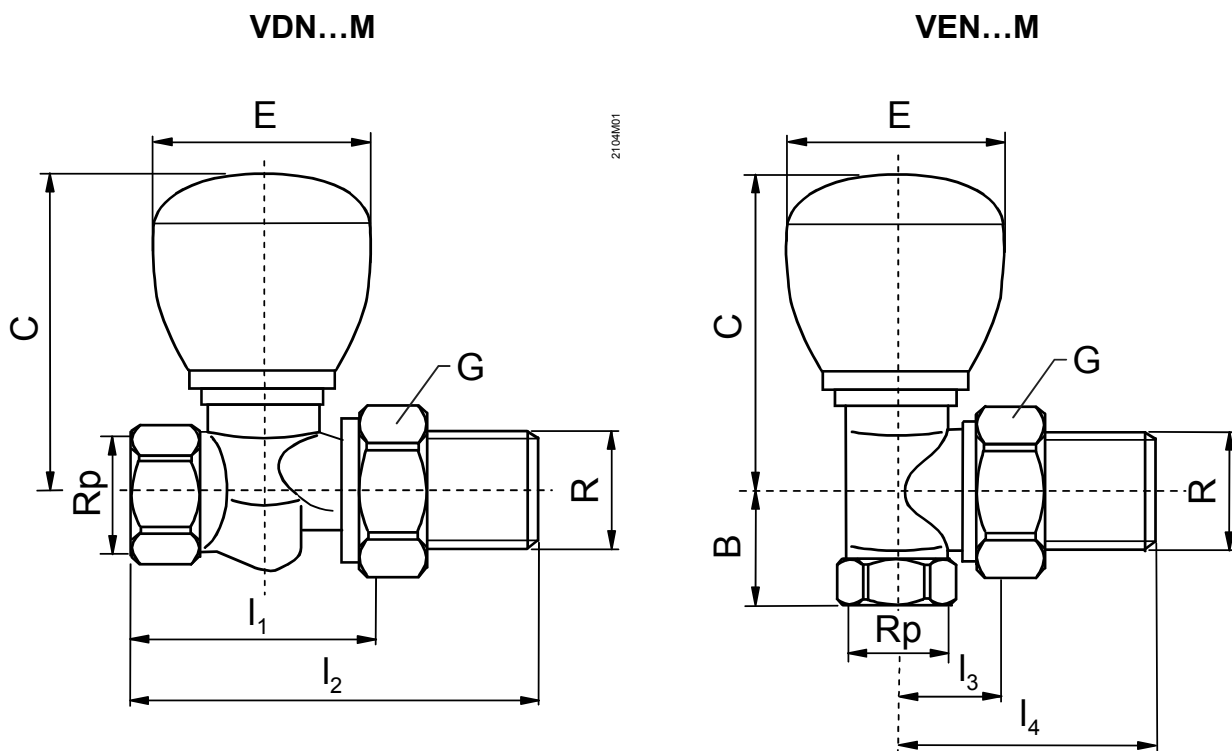
PN class	PN 10
Suitable media	cold and hot water, water-glycol mixtures; recommendation: water treatment to VDI 2035
Medium temperature	max. 120 °C
Perm. operating pressure	1,000 kPa (10 bar)
Closing pressure	60 kPa (0.6 bar)
Differential pressure Δp_{v100}	5...20 kPa (0.05...0.2 bar): recommended range

Materials

Valve body	brass, mat nickel-plated
Fitting	brass, mat nickel-plated
Protective cover	Polypropylene
O-ring	EPDM

Dimensions / weight

	refer to «Dimensions»	
Thread	Rp internally threaded	to ISO 7/1
	R externally threaded	to ISO 7/1
	G thread	to ISO 228/1



Type	DN	Dimensions [mm]					Thread [inch]			Weight [kg]		
		l ₁	l ₂	l ₃	l ₄	B	C	E	Rp		R	G
VDN10M	10	45	68				52	48	3/8	3/8B	5/8	0,180
VDN15M	15	49	76				58	48	1/2	1/2B	3/4	0,235
VDN20M	20	53	83				65	48	3/4	3/4B	1	0,345
VEN10M	10			24	50	18	46	48	3/8	3/8B	5/8	0,180
VEN15M	15			26	54	20	50	48	1/2	1/2B	3/4	0,225
VEN20M	20			31	62	22	56	48	3/4	3/4B	1	0,335