Thermostat valve bodies Vario

Campper ARMATUREN
a brand of the AFRISO group

- **Fully adjustable**
- **Valve insert can be replaced without system having to be drained**
- **Various versions and sizes for virtually any application**

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Adjustment key ES-SV

Application

Suitable for small, medium and large water volumes. For installation in dual-pipe central heating systems.

Description

Low-noise thermostat valve body with threaded connection M30 x 1.5 mm for thermostat control heads and actuators. Mounting cap with valve shut-off function. Fully adjustable with ES-SV adjustment key. Valve spindle with double O ring seal. The valve insert can be replaced with the MGV mounting unit at operating pressure without the system having to be drained.

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Technical specifications

System connection
See ordering table

Thermostat head/actuator connection
Threaded connection M30 x 1.5 mm

Nominal pressure
Max. 10 bar

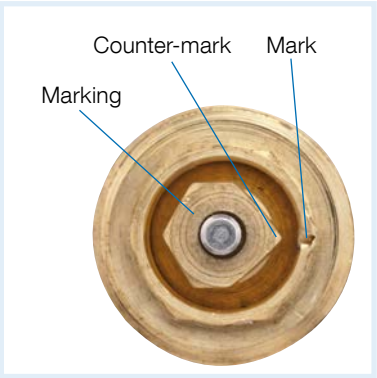
Nominal diameter
DN 10, DN 15, DN 20

Operating temperature range
Medium: T_{max} = 120 °C

Housing
Gunmetal, nickel-plated

Valve pre-adjustment

Vario thermostat valves are fully adjustable by means of the ES-SV adjustment key, starting with the open position (8 = open). The numbers 1–8 are shown on the adjustment key. Mark and counter-mark are aligned. Each ⅛ of a turn corresponds to one flow characteristic, shown in a diagram (see operating instructions).



Type overview

Valve type	Marking at valve insert	Colour of mounting cap
Vario S	1 ring/red	Red
Vario M	2 rings	Black
Vario L	3 rings/green	Green

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See page 238 for prices.

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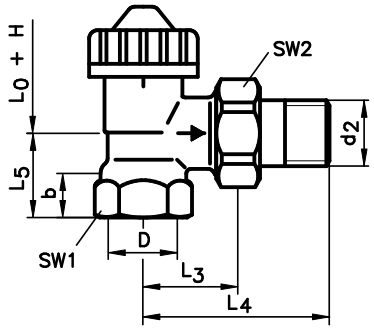
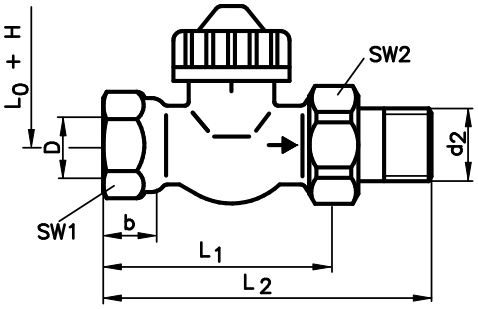
Types and dimensions as per EN 215, series D

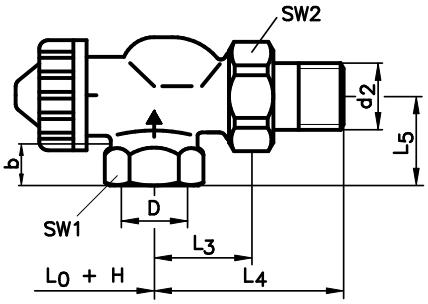
Vario S, M, L – angled



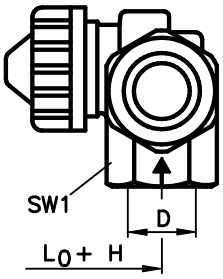
Vario S, M, L – straight



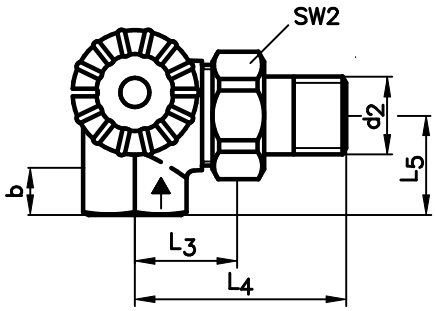
Vario S, M, L – axial



Vario S, M, L – angled-angled, left



Vario S, M, L – angled-angled, right



Dimensions (mm)

DN	D	d_2	Spanner size SW1	Spanner size SW2	H	L_0	L_1 ±2	L_2 ±2	L_3 ±1	L_4 ±1.5	L_5 ±1.5	b min
10	Rp⅜	R⅜	22	27	= Height control head	23	59	85	26	52	22	10.1
15	Rp½	R½	27	30		23	66	95	29	58	26	13.2
20	Rp¾	R¾	32	37		23	74	106	34	66	29	14.5

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DG: V, PG: 2	Version	Nominal diameter	Connection	Flow coefficient* (m^3/h)	Flow coefficient NS** (m^3/h)			Part no.	**Price €**
Vario S for small water volumes									
	**Angled**	DN 10	Rp⅜ x R⅜	0.019–0.25	0.30	1	40	**141 110.101**	
		DN 15	Rp½ x R½			1	40	**141 120.101**	
		DN 20	Rp¾ x R¾			1	-	141 130.101	
	**Straight**	DN 10	Rp⅜ x R⅜	0.019–0.25	0.30	1	40	**141 160.101**	
		DN 15	Rp½ x R½			1	40	**141 170.101**	
		DN 20	Rp¾ x R¾			1	-	141 180.101	
	**Axial**	DN 10	Rp⅜ x R⅜	0.019–0.25	0.30	1	-	143 110.101	
		DN 15	Rp½ x R½			1	-	143 120.101	
	**Angled-angled**, right	DN 15	Rp½ x R½	0.019–0.25	0.30	1	-	145 120.101	
	Angled-angled, left	DN 15	Rp½ x R½	0.019–0.25	0.30	1	-	147 120.101	
Vario M for medium water volumes									
	**Angled**	DN 10	Rp⅜ x R⅜	0.038–0.40	0.79	1	-	**141 210.101**	
		DN 15	Rp½ x R½			1	40	**141 220.101**	
		DN 20	Rp¾ x R¾			1	25	**141 230.101**	
	**Straight**	DN 10	Rp⅜ x R⅜	0.038–0.40	0.79	1	-	141 260.101	
		DN 15	Rp½ x R½			1	40	**141 270.101**	
		DN 20	Rp¾ x R¾			1	25	**141 280.101**	
	**Axial**	DN 10	Rp⅜ x R⅜	0.038–0.40	0.79	1	-	143 210.101	
		DN 15	Rp½ x R½			1	-	143 220.101	
	**Angled-angled**, right	DN 15	Rp½ x R½	0.038–0.40	0.79	1	-	145 220.101	
	**Angled-angled**, left	DN 15	Rp½ x R½	0.038–0.40	0.79	1	-	147 220.101	
Vario L for large water volumes									
	**Angled**	DN 10	Rp⅜ x R⅜	0.174–0.49	1.10	1	-	141 310.101	
		DN 15	Rp½ x R½			1	-	141 320.101	
		DN 20	Rp¾ x R¾			1	-	141 330.101	
	**Straight**	DN 10	Rp⅜ x R⅜	0.174–0.49	1.10	1	-	141 360.101	
		DN 15	Rp½ x R½			1	-	141 370.101	
		DN 20	Rp¾ x R¾			1	-	141 380.101	
	**Axial**	DN 10	Rp⅜ x R⅜	0.174–0.49	1.10	1	-	143 310.101	
		DN 15	Rp½ x R½			1	-	143 320.101	
	**Angled-angled**, right	DN 15	Rp½ x R½	0.174–0.49	1.10	1	-	145 320.101	
	**Angled-angled**, left	DN 15	Rp½ x R½	0.174–0.49	1.10	1	-	147 320.101	

* The flow coefficient corresponds to the water flow in m^3/h through the valve at a given valve stroke (proportional offset, e.g. 1 K or 2 K) and a differential pressure of 1 bar.
**The flow coefficient NS is the flow coefficient of the valve at nominal stroke (100 % open).

Accessories for thermostat valve bodies Vario

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DG: V	Description	PG			Part no.	**Price €**
	**Adjustment key ES-SV,** for valve bodies Vario and VarioQ	1	1	40	**140 110.850**	
	**Valve insert S** for DN 10–DN 20	2	1	-	140 110.221	
	Valve insert M for DN 10–DN 20	2	1	-	140 210.221	
	Valve insert L for DN 10–DN 20	2	1	-	140 310.221	
	**Filling and draining unit FEV 04** For valve bodies Vario/VarioQ and combination blocks THK/Twin	2	1	-	140 110.870	
	**Mounting unit MGV** for replacing the valve inserts Vario S-L ⅜" – ¾", standard ⅜" – ¾", V_{max} ⅜" – ½" and old inserts of the Gampper series V, VV, VF.	2	1	2	140 110.860	

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