

thermostat valve body VarioQ M D DN20

Part no. 181 280.101

thermostat valve body

benefits

- fixed, calibrated measuring unit for accurate adjustment of the radiator
- fully adjustable
- valve insert can be replaced without system having to be drained
- lightning-fast hydraulic balancing with CAPBs® set valve balancing

Application

For measuring and adjusting the volume flow directly at the valve, e.g. with the CAPBs® set valve balancing as measuring instrument for hydraulic balancing. Suitable for small, medium and large water volumes. For installation in dual-pipe heating systems. Design as per standard, therefore, installation in existing systems without changes to the connection pipes.
In the case of axial version or angled-angled version (left/right), use valve body Vario (axial) or Vario angled-angled (left/right) with lockshield valve with measuring function 454Q.

Description

Patented, low-noise thermostat valve body with fixed, calibrated orifice plate for measuring and adjusting the volume flow directly at the valve. Mounting cap with valve shut-off function. Threaded connection M30 x 1.5 mm for thermostat control heads and actuators. 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.
VarioQ is a triple-stage hydraulic balancing system which allows for optimisation of the heating pipe system by means of calculation, measurement and adjustment. The CAPBs® set valve balancing (measuring instrument) measures the flow rate in litres per hour and the water volume can be easily set at the valve without conversion. Even minimum flow rates can be set with this system.
VarioQ 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 1/8 of a turn corresponds to one flow characteristic, shown in a diagram (see operating instructions).

Technical Specifications

System connection
see ordering table

Thermostat head/actuator connection
Threaded connection M 30 x 1.5 mm

Adjustment range
VarioQ M
14 – 215 l/h

Nominal pressure
max. 10 bar

Nominal diameter
DN 20

Operating temperature range
Medium: max. 120 °C

Housing
Brass, nickel-plated

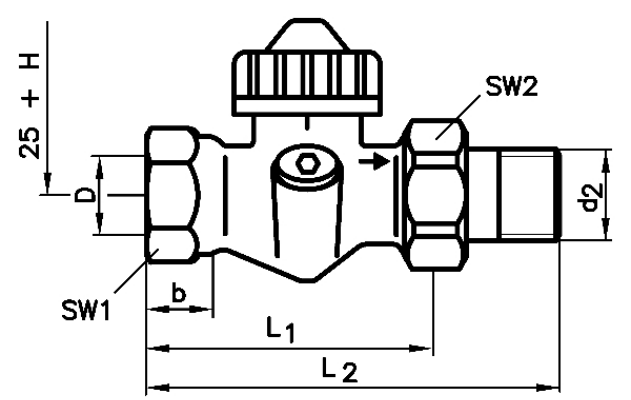
Options
- version PN 16

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Technical Drawings

VarioQ S, M, L – straight



Types and dimensions as per EN 215, series D

DN	D	d1	d2	SW1	SW2	b	L1	L2	L3	L4	L5
10	Rp⅜	-	R⅜	22	27	10,1	59	85	26	52	22
15	Rp½	G¾	R½	27	30	13,2	66	95	29	58	26
20	Rp¾	-	R¾	32	37	14,5	74	106	34	66	29

H: Height control head

Versions

			Version	Version	Nominal pressure	Nominal diameter	Connection	Flow coefficient*	Flow coefficient Kvs** Part no.		Part no.
	VarioQ M	for medium water volumes	Straight		PN 10	DN 20	Rp¾ x R¾	0.044 – 0.46 m³/h	0.68 m³/h	●	181 280.101

● in-stock items

○ Non-stock items