

Variomat control unit VS 2-1/75, for pressurisation, degassing and makeup, 10 bar

Article number: 8910300



Features

Type	VS 2-1/75
Control type	Control Touch
Max. permissible system temperature	120 °C
Max. perm. safety temperature	110 °C
Max. perm. operating temperature	90 °C
Perm. operating temperature generator	105 °C
Pressure/temperature	10 bar 90 °C
Max. perm. operating pressure	10 bar
Trigger pressure SV tank side	5.0 bar
Max. p ₀ setting	6.5 bar
Max. sound pressure level	55 dB(A)
Type of protection	IP 54
Number of connections	2 St.
Electric connection	230V/50Hz
Expansion line connection	Rp 1"
Make-up connection	Rp 1/2"
Max. electrical rated power	1.10 kW
Height	921 mm
Width	480 mm
Depth	561 mm
Weight	49.90 kg

Description

Variomat

Control unit, Hydraulics and control module for pressurisation, degassing, and water make-up in sealed heating water and cooling circuits. Constructed in compliance with DIN EN 12828 and the requirements of VDI 4708, with CE marking. Suitable for use in noise-sensitive areas.

Functional unit comprising a hydraulic part and a Control Touch operating unit. Both are ergonomically combined in an easy-to-maintain modular floor-standing framework system made of EV 1 anodized aluminium precision sections with CE marking.

Hydraulic section:

Pressure maintenance is achieved by a stainless steel centrifugal pump in conjunction with a robust, dirt-resistant motor ball valve, with a dirt trap acting as an overflow device. A safety valve is provided to protect the connected Variomat primary vessel VG or secondary vessel VF against overpressure. System pressure is measured by an electronic sensor. System connections on the discharge side are designed as secured shut-off ball valves. All fittings are mounted on a rotatable base plate to allow for a more flexible arrangement of the hydraulic system.

The Control Touch control unit with TFT colour display, including communication electronics, is integrated into a robust plastic housing designed as a panel and mounted horizontally directly on the controller. An optional separate and vertical wall mounting at a maximum distance of three metres from the power electronics is possible. Communication electronics comprising:

- 4.3" resistive colour touch display for programming, operating documentation and monitoring, as well as the provision of help texts for all functions
- two RS485 interfaces as data and communication interfaces
- a serial TTL interface with two connection terminals for connecting 2 I/O circuit boards
- a potential free output for transmitting the group message
- two galvanically isolated analogue outputs, e.g. for system pressure
- an input for analysis of contact water meters
- Slot for a compact bus module, one SD card, e.g. for data read-out, software updates, etc.
- 230V output for connection of level-dependent makeup/degassing stations

The power electronics are installed in a dedicated plastic control cabinet which is mounted directly below the operating unit. Power supply is via a main switch. Featuring in detail:

- Main switch on housing exterior
- Pump control

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Thinking solutions.

- Cable management for external connections
 - Mounting slot for optional modules
- Control unit completely piped and wired ready for connection according to VDE regulations. System connections by means of integrated shut-off valves.

Control Touch is a fully automatic and freely programmable microprocessor control with touchscreen operation, real-time clock, differentiating error and parameter memory, combined graphical and clear-text display of system pressure, tank level and all relevant operating and fault messages, functional diagram, signalling of the active operating mode, collective fault message, low water level, functioning of pump, overflow valve and make-up valve.

Functioning of the pressurisation in the limits ± 0.2 bar including pump monitoring. Optimised system water degassing due to patented, fully-automatic overflow control with cycles for continuous, interval and run-on degassing. Controlled make-up, automatic interruption and fault message upon exceeding of the runtime and/or the number of cycles. Processing of the signal of a contact water meter for maximum volume limit and/or capacity evaluation of ion exchangers located in the make-up line. Documentation and control of the entire system in respect of the above mentioned parameters.