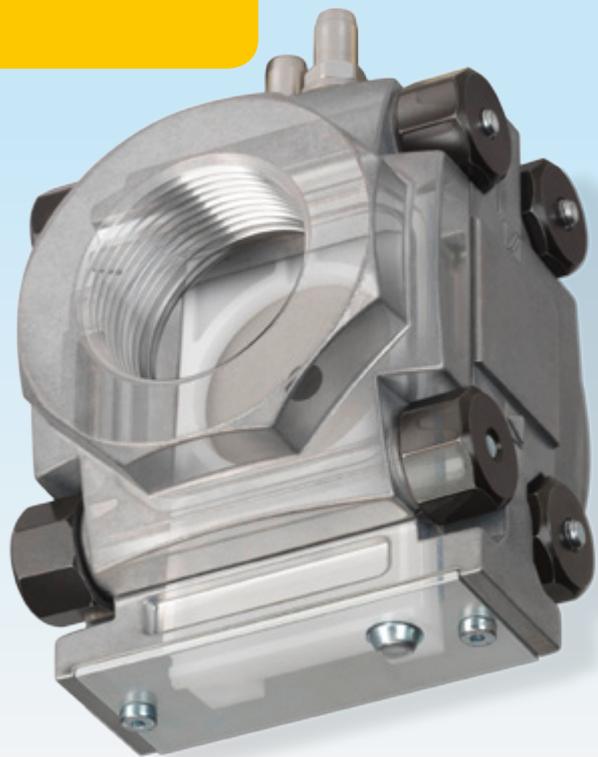


## Fine-adjusting valve VMV

Product brochure · GB  
3.1.0.16 Edition 02.10



CE

- Precise setting via a slide valve optimized for linear flow
- Tamper-proof thanks to self-locking thread
- Easy installation into a system in conjunction with valVario valves and regulators

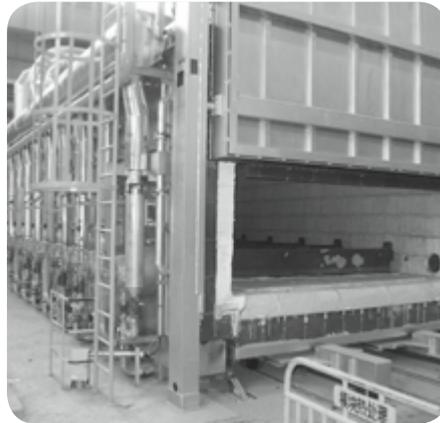




### Application

Fine-adjusting valve VMV for presetting the gas and air flow rate to gas burners or gas appliances. For use in gas control and safety systems in all sectors of the iron, steel, glass and ceramics industries, and also in commercial heat generation.

It can easily be adapted to different pipes thanks to the selection of various flanges for individual valve sizes. The modular design allows the individual assembly with valVario valves or regulators making it possible to construct space-saving gas systems.

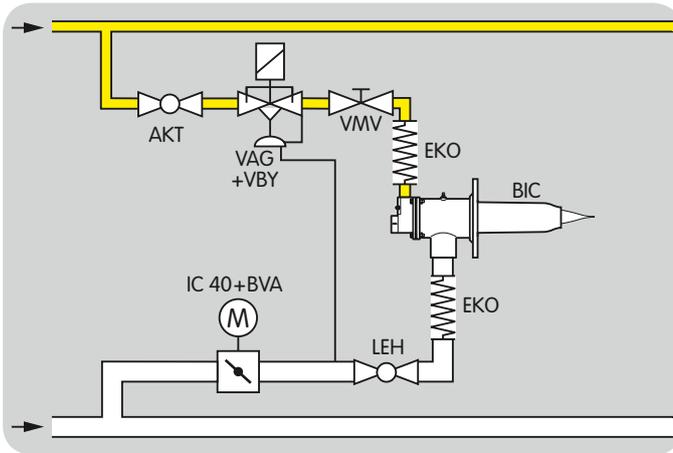


*Bogie hearth furnace*



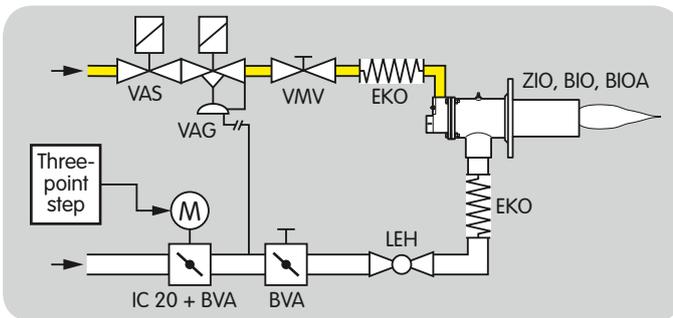
*Roller hearth furnace*

Examples of application  
Staged control with pneumatic ratio control system



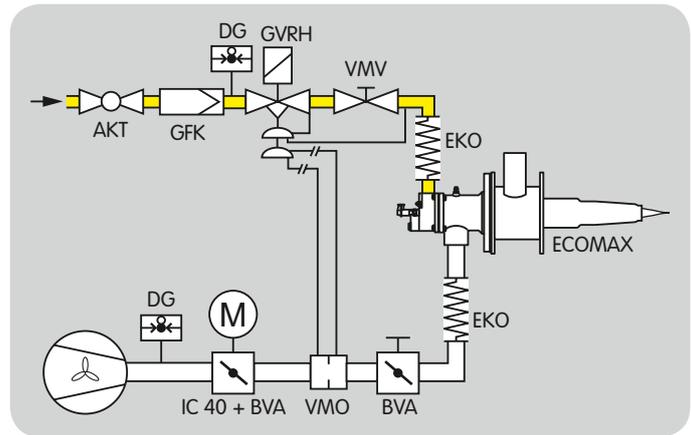
The high output impulse at the burner generated by this type of control produces a uniform temperature distribution and good circulation of the furnace or kiln atmosphere, e.g. in heat treatment furnaces in the iron and non-ferrous metal industries or kilns for heavy clay and fine ceramics. The required lambda value can be set using the fine-adjusting valve VMV and the air adjusting cock LEH.

Continuous control with pneumatic ratio control system



The gas/air mixture is set using the fine-adjusting valve VMV. A constant mixture setting is maintained over a wide control range while at the same time preventing air deficiency. This type of control is used in melting furnaces in the aluminium industry or in regenerative incineration installations in the environment industry, for example.

Continuous control of a self recuperative burner

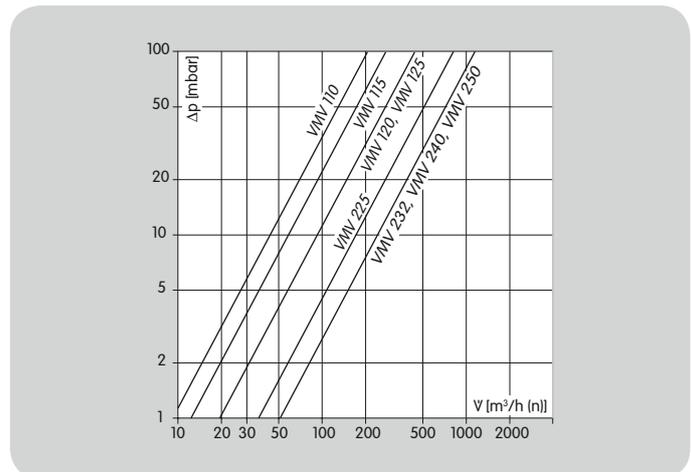


The air flow rate is measured by a measuring orifice VMO and the GVRH controls the gas flow rate proportionally. The required lambda value can be set using the fine-adjusting valve VMV.

Type code

Code	Description
VMV	Fine-adjusting valve
1-2	Size
-	Without inlet and outlet flange
10-50	Nominal diameter in DN: Inlet flange
/10-50	Outlet flange
R	Rp internal thread
N	NPT internal thread
F	Flange to ISO 7005
05	$p_{e \max}$ 500 mbar
M	With pressure test points
P	With screw plugs

Flow rate diagram



## Technical data

Types of gas: natural gas, LPG (gaseous), biologically produced methane (max. 0.1 %-by-vol. H<sub>2</sub>S) or air; other gases on request.

The gas must be dry in all conditions and must not contain condensate.

Max. inlet pressure  $p_e$ : max. 500 mbar (7.25 psig).

Ambient temperature: -20 to +60°C (-4 to +140°F),  
no condensation permitted.

Storage temperature: 0 to +40°C (-4 to +104°F).

Housing: aluminium.

Connection flanges with internal thread: Rp to ISO 7-1, NPT to ANSI/ASME.

## Maintenance

Check for external tightness at least once per annum, at least twice per annum for operation with biologically produced methane.