KENDRION

KENDRION SOLUTIONS

Mixing and dosing of fuel gases

in flame atomic absorption spectroscopy

In laboratory and analytical technology applications, volume flows of gases, such as inert shielding gases, oxygen or combustion gases, often need to be continuously monitored and controlled to achieve optimal and reliable measurement results. In flame atomic absorption spectroscopy (FAAS), flames are used to atomize a sample. Flame formation requires a fuel gas that is mixed from different gases using proportional valve technology. This demands a high degree of reliability from the fluidics components used and consistent repeatability over time.

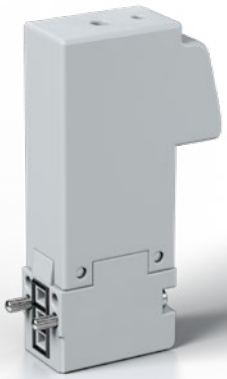
Kendrion has been an experienced and reliable development partner and producer of fluidic components and assemblies specifically tailored to the requirements of laboratory and analytical technology for several decades. The 10 mm proportional valve of the 63 series combines the advantages of a cost-effective and compact design with the technical requirements for the control properties for mixing and metering the fuel gas consisting of air-acetylene (C_2H_2) or nitrous oxide (N_2O)-acetylene. Due to the standardized flange pattern, the valve can be integrated very well into existing customer applications, even with limited installation space requirements.

Product features

- control via PWM or constant current possible as well as dithering
- electrical connection with pin for PCB assembly or wire
- scalable nominal diameters from 0.5 to 1.0 mm
- different sealing materials NBR, FKM and EPDM

Further application areas

- medical technology
- dental technology
- mechanical engineering
- analytical technology



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