

THERMAL PROCESSING

MDV systems for pre-mix burners



MDV-2



MDV-3

MDV gas mixing and metering systems for the flexible production and flow control of fuel gases mixed with oxygen or air; especially designed for burners working with pre-mixed gases.

Benefits

- the flexible arrangement of proportional mixing valves (2 gases) or single metering valves (3 gases) provides the flexibility to meet the mixed gas supply requirements of various types of processing machinery
- subsequent changes of machine parameters, e.g. capacities or number of burners, can be easily accomplished because of the modular design
- all parameters can be adjusted with the burners in sight due to the installation of both mixing and metering valves close to the burners

- the perfect repeatability of the parameter settings enables the initial setting of the burners before actually starting the process. This results in reduced set-up times as well as in minimised cost of rejects during start-up
- low assembly cost due to very convenient assembly of mixing and metering valves without any additional pipe work, brackets or housings
- integrated WITT safety technology to prevent dangerous flashbacks or back burns into the gas supply system protecting life and equipment

Please indicate the individual gases as well as number and capacities of the required burners when ordering!

Type	MDV Systems for pre-mix burners	Repeatability	better $\pm 1\%$ abs.
Gases	fuel gases such as natural gas, methane, propane, hydrogen, acetylene with oxygen and/or air	Gas Connections	dependent on valve block size
Mixture range	dependent on the gases	Materials	aluminium, stainless steel, brass
Gas inlet pressures	0.3 to 10 bar	Weight	dependent on number of valves
Gas outlet pressure	dependent on the back pressure of the burners	Dimensions (HxWxD)	dependent on number of valves
Mixture output (air)	approx. 10 NI/min to 1.000 NI/min (other flow capacities on request)	Shut-off valves	solenoid valves 24 V DC or 230 V AC
Accuracy	dependent on the mixture range $\pm 2\%$ abs. (scale 0-100%) $\pm 1\%$ abs. (scale 0-25%)	Approvals	Company certified according to ISO 9001 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU