

# 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!**

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