



Gas mixing systems for 2 defined gases, for laser cutting gas mixtures with high flows and fluctuating gas mixture production requirements.

Easy operation

- an electro-pneumatic proportional mixing valve provides infinitely variable mixture settings
 - with control unit GC50 (local)
 - via Ethernet or analogue input (remotely adjustable)
- user friendly input of data and process parameter by integrated keyboard or via PC (for example MS-Excel®)
- simple, intuitive operation; no qualified personnel necessary
- customer oriented quality documentation by easy data management and evaluation

Options

- monitoring of the gas supply by means of temperature transmitter; too low an inlet temperature triggers a visual alarm (audible optional) and switches a potential free contact (e.g. to shut down machinery to avoid quality problems)

High process reliability

- too low inlet pressures triggers an audible/visual alarm and shuts down the mixed gas supply
- lockable transparent door for protection of settings
- independent of pressure fluctuations in the gas supply

Other models, options and accessories available on request.

GAS MIXER MG 100-ME HD ERC+



Type	MG 100-2ME HD ERC+
Gases	Standard Oxygen and Nitrogen
Mixing range	1-25%
Pressure settings	Inlet pressure max. 40 bar
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see table
Temperature (gas/environment)	0 °C to 45 °C
Setting accuracy	±0.5% abs. (valve 0-5% and 0-10%), ±1% abs. (valve 0-25%)
Mixing precision	better than ±0.5% abs.
Gas connections	
inlets	G 1 RH with cone, soldering nipple for pipe OD 22 mm
outlet	G 1 RH with cone, soldering nipple for pipe OD 22 mm
Housing	Steel, powder coated, IP43
Weight	according to equipment and housing approx. 80 kg – ca. 100 kg
Dimensions (HxWxD)	approx. 1220 x 600 x 515 mm (without connections)
Voltage	230 V AC, 110 V AC or 24 V DC
Power consumption	230 V AC, 0.02 A 110 V AC, 0.04 A 24 V DC, 0.06 A
Approvals	Company certified according to ISO 9001 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU - PED 2014/68/EU Designed for Oxygen Service in accordance with EIGA 13/20, CGA G-4.4 and AIGA 021/20: Oxygen Pipeline and Piping Systems Cleaned for Oxygen Service in accordance with EIGA 33/18, CGA G-4.1 and AIGA 012/19: Cleaning of Equipment for Oxygen Service

Flow MG 100 HD (in Nm³/h) in relation to air											
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)											
	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5
17	106	—	—	—	—	—	—	—	≤ 20 [m/s]	—	—
18	136	109	—	—	—	—	—	—	> 20 [m/s]	—	—
19	161	141	112	—	—	—	—	—	—	—	—
20	183	167	145	115	—	—	—	—	—	—	—
21	202	189	172	149	119	—	—	—	—	—	—
22	220	209	195	176	153	122	—	—	—	—	—
23	236	227	215	200	181	157	124	—	—	—	—
24	252	244	234	221	205	186	161	127	—	—	—
25	266	260	251	240	227	211	190	164	130	—	—
26	280	274	267	258	247	233	216	195	168	133	—
27	293	289	283	275	265	253	238	221	199	172	136
28	305	302	297	291	282	272	259	244	225	203	175
29	317	315	311	306	298	289	278	265	249	230	207
30	329	327	324	320	314	306	296	285	271	254	235
31	340	339	337	333	328	322	313	303	291	277	260