



Mixing systems for 2 gases especially for high pressures and large flow rates for the continuous generation of laser assist cutting gases.

Easy operation

- a proportional mixing valve provide infinitely variable mixture settings

High process reliability

- independent of pressure fluctuations in the gas supply
- lockable transparent door for protection of settings
- splash-proof and robust stainless steel housing

Options

- alarm module AM3: integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, obligation of acknowledgement, protection of alarms, interfaces for controlling external alarms etc.

Other models, options and accessories available upon request.

GAS MIXER MG 50/100-M HD



Type	MG 50-2M HD; MG 100-2M HD
Gases	Standard Oxygen and Nitrogen
Mixing range	0-2,5%, 0-10% or 0-25%
Pressure settings	Inlet pressure max. 40 bar
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see tables min. mixture output = 1/5 of the max. mixture output
Setting accuracy	±1% abs. (scale 0 – 25%)
Mixing precision	better than ±1% abs.
Gas connections MG 50	
inlets	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
outlet	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
Gas connections MG 100	
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	stainless steel, splash proof
Weight MG 50	approx. 30 kg
Weight MG 100	approx. 38 kg
Dimensions (HxWxD)	approx. 330 x 485 x 500 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

GAS MIXER MG 50/100-M HD

Flow MG 50 HD (in Nm ³ /h) in relation to air											
	outlet pressure in barg										
	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5
min. inlet pressure in barg (max. 40 bar)	17.5	48	29	—	—	—	—	—	—	≤ 20 [m/s]	—
	18.5	62	49	29	—	—	—	—	—	> 20 [m/s]	—
	19.5	73	64	51	30	—	—	—	—	—	—
	20.5	83	75	66	52	31	—	—	—	—	—
	21.5	92	86	78	68	54	32	—	—	—	—
	22.5	100	95	88	80	69	55	33	—	—	—
	23.5	107	103	97	91	82	71	56	33	—	—
	24.5	114	110	106	100	93	84	73	58	34	—
	25.5	121	118	114	109	103	95	86	74	59	35
	26.5	127	124	121	117	112	105	98	88	76	60
	28.0	133	131	128	125	120	115	108	100	90	78
	29.0	138	137	135	132	128	123	117	110	102	92
	30.0	144	143	141	138	135	131	126	120	113	104
	31.0	149	148	147	145	142	139	134	129	123	115

Flow MG 100 HD (in Nm ³ /h) in relation to air											
	outlet pressure in barg										
	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5
min. inlet pressure in barg (max. 40 bar)	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
	28	305	302	297	291	282	272	259	244	225	203
	29	317	315	311	306	298	289	278	265	249	230
	30	329	327	324	320	314	306	296	285	271	254
	31	340	339	337	333	328	322	313	303	291	277