

MM-FLex



Gas mixing systems for 2 defined gases, designed for a variety of applications where an adjustable gas mixture is required.

Capacity range up to approx. 216 NL/min.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Benefits

- low cost
- very compact design
- easy to install
- wall mounting possible
- adjustable operating / outlet pressure

Easy operation

- a proportional mixing valve with a control knob and %-scale provides infinitely variable mixture settings
- infinitely variable flow setting with scaled adjustment knob

High process reliability

- independent of pressure fluctuations in the gas supply
- independent of withdrawal fluctuations (in permitted range)

Options

- WITT-Pipe Couplers for pipe OD 8 mm
- Flame Arrestor in the outlet (for flammable gases)
- Shut off by solenoid valve in the outlet, 230 V AC or 24 V DC, also in Ex-version

Other models, options and accessories available upon request.

Please identify the individual gases at the time of enquiring!

Technical data overleaf



MM-FLeX

Technical Data	
Type	MM-FLEX
Gases	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O ₂ oder N ₂ O)
Mixing range	0-25% or 0-100%
Pressure settings	see table
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see table min. mixture output = 1/5 of the max. mixture output
Setting accuracy	±1% abs. (scale 0-25%), ±2% abs. (Skala 0-100%)
Mixing precision	better than ±2% abs.
Gas connections	G 3/8 RH with cone, hose nipple 6 mm
Housing	aluminium
Weight	approx. 3 kg
Dimensions (HxWxD)	approx. 168 x 125 x 147 mm (6.61 x 4.92 x 5.79 inch)
Approvals	Company certified according to ISO 9001 CE-marked according to: - ATEX 114 Directive 2014/34/EU Cleaned for Oxygen Service according to: - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

Flow MM-FLEX (in NI/min) in relation to air

min. inlet pressure in barg (max. 20 bar), for O ₂ and mixtures with O ₂ (max. 10 bar)	outlet pressure in barg															
	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0
2,5	34	-	-	-	-	-	-	-	-	-	Note: Reduced mixture output in case of higher outlet pressures					
3,0	48	36	-	-	-	-	-	-	-	-						
3,5	60	52	38	-	-	-	-	-	-	-						
4,0	70	67	56	41	-	-	-	-	-	-	-	-	-	-	-	-
4,5	85	80	72	60	43	-	-	-	-	-	-	-	-	-	-	-
5,0	96	92	86	78	64	45	-	-	-	-	-	-	-	-	-	-
5,5	108	105	100	93	83	67	47	-	-	-	-	-	-	-	-	-
6,0	120	117	113	107	99	87	71	48	-	-	-	-	-	-	-	-
6,5	132	129	125	120	113	105	91	75	50	-	-	-	-	-	-	-
7,0	144	143	138	134	127	120	108	96	78	52	-	-	-	-	-	-
7,5	155	154	152	146	142	134	125	113	100	82	54	-	-	-	-	-
8,0	168	165	164	161	155	148	140	131	117	104	85	56	-	-	-	-
8,5	180	179	177	174	169	162	156	145	136	121	106	87	57	-	-	-
9,0	193	191	189	186	182	177	170	170	152	141	125	110	90	59	-	-
9,5	207	206	202	199	195	191	183	178	168	158	145	130	114	92	60	-
10,0	216	216	212	212	208	203	199	190	184	174	163	150	136	118	95	61

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