



BM-2M



BM-2V

Gas mixing systems for 2 defined gases, designed for a variety of industrial applications, for direct cylinder connection (high pressure).

BM-2M capacity range up to approx. 235 SCFH.
BM-2V capacity range up to approx. 301 SCFH.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Benefits

- no more components required e.g. pressure control – for low costs
- compact design
- easy to install
- protection of downstream equipment using 2 integrated blow-off valves to protect against dangerous overpressures

Easy operation

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

- infinitely variable flow setting with scaled adjustment knob (BM-2M)
- a pressure regulator provides infinitely variable outlet pressures (BM-2V)

High process reliability

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

Other models, options and accessories available upon request.

Please identify the individual gases at the time of enquiring!

GAS MIXER BM



Type	BM-2M, BM-2V	
Gases	CO ₂ /Ar, CO ₂ /N ₂ , He/Ar, He/N ₂ , N ₂ /Ar not for O ₂ and flammable gases!	
Mixing range	0 – 25% or 0 – 100%	
Pressure settings	see tables	
Inlet pressure	min. 44 PSI max. 2901 or 4351 PSI (depending on version)	
Outlet pressure	max. 116 PSI	
Opening pressure of blow-off valves	max. 174 PSI	
Mixture output (air)	see tables min. mixture output = 1/5 of the max. mixture output	
Setting accuracy	±1% abs. (scale 0 – 25%), ±2% abs. (scale 0 – 100%)	
Scale division	scale 0 – 25% 1% division scale 0 – 100% 5% division	
Mixing precision	2M 2V	better than ±1% abs. better than ±3% abs. till min. mixture output = 1/5 of the max. mixture output
Gas connections		
inlets	cylinder connection DIN 477	
outlet	G 1/4 EN 560	
Housing	aluminium, coated	
Weight	approx. 8 lb	
Dimensions (HxWxD)	2M 2V	approx. 230 x 156 x 130 mm (9.1 x 6.1 x 5.1 inches) (without connections) approx. 230 x 156 x 130 mm (9.1 x 6.1 x 5.7 inches) (without connections)
Approvals	Company certified according to ISO 9001 and ISO 22000 for food-grade gases according to: - Regulation (EC) No 1935/2004	

Flow BM-2M (in SCFH) in relation to air		outlet pressure in PSI							
		14.5	29.0	43.5	58.0	72.5	87.0	101.5	116.0
min. inlet pressure in PSI (max.4351 PSI)	43.5	32	-	-	-	-	-	-	-
	58.0	64	40	-	-	-	-	-	-
	72.5	89	76	44	-	-	-	-	-
	87.0	110	104	89	53	-	-	-	-
	101.5	131	131	119	97	57	-	-	-
	116.0	153	153	146	133	110	64	-	-
	130.5	172	174	174	165	148	121	66	-
	145.0	193	193	193	189	180	161	125	68
	159.5	212	212	212	212	208	193	167	133
	174.0	231	231	231	233	235	222	206	180

Flow BM-2V (in SCFH) in relation to air		outlet pressure in PSI							
		14.5	29.0	43.5	58.0	72.5	87.0	101.5	116.0
min. inlet pressure in PSI (max.4351 PSI)	43.5	49	-	-	-	-	-	-	-
	58.0	93	64	-	-	-	-	-	-
	72.5	127	112	74	-	-	-	-	-
	87.0	157	153	133	78	-	-	-	-
	101.5	184	182	172	144	81	-	-	-
	116.0	212	214	212	191	157	89	-	-
	130.5	244	246	244	231	210	161	91	-
	145.0	275	275	275	269	252	216	174	93
	159.5	301	301	290	284	271	254	218	176

KM1 USA - F02/3F - subject to change