



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



<b>Type</b>		BM-2M, BM-2V
<b>Gases</b>		CO <sub>2</sub> /Ar, CO <sub>2</sub> /N <sub>2</sub> , He/Ar, He/N <sub>2</sub> , N <sub>2</sub> /Ar not for O <sub>2</sub> and flammable gases!
<b>Mixing range</b>		0 – 25% or 0 – 100%
<b>Pressure settings</b>		see tables
<b>Inlet pressure</b>		min. 44 PSI max. 2901 or 4351 PSI (depending on version)
<b>Outlet pressure</b>		max. 116 PSI
<b>Opening pressure of blow-off valves</b>		max. 174 PSI
<b>Mixture output (air)</b>		see tables min. mixture output = 1/5 of the max. mixture output
<b>Setting accuracy</b>		±1% abs. (scale 0 – 25%), ±2% abs. (scale 0 – 100%)
<b>Scale division</b>		scale 0 – 25%    1% division scale 0 – 100%    5% division
<b>Mixing precision</b>	<b>2M</b> <b>2V</b>	better than ±1% abs. better than ±3% abs. till min. mixture output = 1/5 of the max. mixture output
<b>Gas connections</b>		
<b>inlets</b>		cylinder connection DIN 477
<b>outlet</b>		G 1/4 EN 560
<b>Housing</b>		aluminium, coated
<b>Weight</b>		approx. 8 lb
<b>Dimensions (HxWxD)</b>	<b>2M</b> <b>2V</b>	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)
<b>Approvals</b>		Company certified according to ISO 9001

Flow <b>BM-2M</b> (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 <b>BM-2V</b> (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 - D01/D7 subject to change