



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. 111 NI/min.  
BM-2V capacity range up to approx. 142 NI/min.  
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. 3 bar max. 200 or 300 bar (depending on version)
<b>Outlet pressure</b>		max. 8 bar
<b>Opening pressure of blow-off valves</b>		max. 12 bar
<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. 3.5 kg
<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

		outlet pressure in barg							
		1	2	3	4	5	6	7	8
min. inlet pressure in barg (max.300 bar)	3	15	-	-	-	-	-	-	-
	4	30	19	-	-	-	-	-	-
	5	42	36	21	-	-	-	-	-
	6	52	49	42	25	-	-	-	-
	7	62	62	56	46	27	-	-	-
	8	72	72	69	63	52	30	-	-
	9	81	82	82	78	70	57	31	-
	10	91	91	91	89	85	76	59	32
	11	100	100	100	100	98	91	79	63
	12	109	109	109	110	111	105	97	85

		outlet pressure in barg							
		1	2	3	4	5	6	7	8
min. inlet pressure in barg (max.300 bar)	3	23	-	-	-	-	-	-	-
	4	44	30	-	-	-	-	-	-
	5	60	53	35	-	-	-	-	-
	6	74	72	63	37	-	-	-	-
	7	87	86	81	68	38	-	-	-
	8	100	101	100	90	74	42	-	-
	9	115	116	115	109	99	76	43	-
	10	130	130	130	127	119	102	82	44
	11	142	142	137	134	128	120	103	83