

# BM-2M, BM-2V



**BM-2M**

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



**BM-2V**

bm -2M capacity range up to approx. 111 NL/min.  
bm-2V capacity range up to approx. 142 NL/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 on request.**

**Please identify the individual gases at the time of enquiring!**

Technical data overleaf



# BM-2M, BM-2V

Technical Data	
Type	BM-2M, BM-2V
Gases	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!
Mixing range	0-25% or 0-100%
Pressure settings	see tables
Inlet pressure	min. 3 bar, max. 300 bar
Outlet pressure	max. 8 bar
Opening pressure of blow-off valves	max. 12 bar
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	<b>2M</b> better than ±1% abs <b>2V</b> better than ±3% abs. till min. mixture output = 1/5 of the max. mixture output
Gas connections	<b>Inlets</b> cylinder connection DIN 477 <b>Outlet</b> G 1/4 EN 560
Housing	aluminium, coated
Weight	approx. 3.5 kg
Dimensions (HxWxD)	<b>2M</b> approx. 230 x 156 x 130 mm (9.1 x 6.1 x 5.1 inch) (without connections) <b>2V</b> approx. 230 x 156 x 130 mm (9.1 x 6.1 x 5.7 inch) (without connections)
Approvals	Company certified according to ISO 9001

FlowBM-2M(in NI/min) in relation to air 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

FlowBM-2V(in NI/min) in relation to air 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