

GAS MIXERS

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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 on request.

Please identify the individual gases at the time of enquiring!

Product Information

GAS MIXERS

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. 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	2M	better than ±1% abs.
	2V	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. 3.5 kg	
Dimensions (HxWxD)		
	2M	approx. 230 x 156 x 130 mm (9.1 x 6.1 x 5.1 inch) (without connections)
	2V	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 and ISO 14001	

Technical Data

Flow BM-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

Flow BM-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

A01/D1 subject to change