

**GAS MIXERS**

www.wittgas.com

**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.

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

**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

**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.**

**Easy operation**

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

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

Product Information

**GAS MIXERS**

<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. 43.5 psi, max. 4350 psi	
<b>Outlet pressure</b>	max. 116.0 psi	
<b>Opening pressure of blow-off valves</b>	max. 174.0 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>	better than ±1% abs.
	<b>2V</b>	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. 7.7 lb	
<b>Dimensions (HxWxD)</b>		
	<b>2M</b>	approx. 9.1 x 6.1 x 5.1 inch (without connections)
	<b>2V</b>	approx. 9.1 x 6.1 x 5.7 inch (without connections)
<b>Approvals</b>	Company certified according to ISO 9001:2000 and ISO 14001	

Technical Data

Flow <b>BM-2M</b> (in SCFH) in relation to air		outlet pressure in psig							
		14.5	29.0	43.5	58.0	72.5	87.0	101.5	116.0
min. inlet pressure in psig (max. 4350 psi)	43.5	31.8	-	-	-	-	-	-	-
	58.0	63.6	40.3	-	-	-	-	-	-
	72.5	89.0	76.3	44.5	-	-	-	-	-
	87.0	110.2	103.8	89.0	53.0	-	-	-	-
	101.5	131.3	131.3	118.7	97.5	57.2	-	-	-
	116.0	152.6	152.6	146.2	133.5	110.2	63.6	-	-
	130.5	171.6	152.6	152.6	165.3	148.3	120.8	65.7	-
	145.0	192.8	192.8	192.8	188.6	180.1	161.0	125.0	67.8
	159.5	211.9	211.9	211.9	211.9	207.6	192.8	167.4	133.5
	174.0	231.0	231.0	231.0	233.1	235.2	222.5	205.5	180.1

Flow <b>BM-2V</b> (in SCFH) in relation to air		outlet pressure in psig							
		14.5	29.0	43.5	58.0	72.5	87.0	101.5	116.0
min. inlet pressure in psig (max. 4350 psi)	43.5	48.7	-	-	-	-	-	-	-
	58.0	93.2	63.6	-	-	-	-	-	-
	72.5	127.1	112.3	74.2	-	-	-	-	-
	87.0	156.8	152.6	133.5	78.4	-	-	-	-
	101.5	184.3	182.2	171.6	144.1	80.5	-	-	-
	116.0	211.9	214.0	211.9	190.7	156.8	89.0	-	-
	130.5	243.7	245.8	243.7	230.9	209.8	161.0	91.1	-
	145.0	275.5	275.5	275.5	269.0	252.1	216.1	173.7	93.2
	159.5	300.9	300.9	290.3	283.9	271.2	254.3	218.2	175.9

C9 subject to change