

Available Series "MG" Mixer sizes

Capacity and selection data

Based on gross heating value of: 1000 Btu/ft ³ , sg = 0.6 for natural gas Maximum capacities for shown air factors are based on specified natural gas data. All air data is for standard conditions (59° F, 14.69 psi(a) at mixer outlet). Propane/butane/LPG pressures shown for different (LPG) nozzle insert. n = air factor (n = 1: stoichiometric mixture, n = 1.1 = 10 % excess air)								
Type "MG" (1)	Max. air flow m ³ (st)/hr	Δp air @ max. flow incl/excl. swirler "wc (2)	Δp gas @ max. capacity and 30 % excess air (n = 1.3) (3)			Maximum capacities MBtu/h (HHV)		
			nat. gas "wc	propane "wc	butane "wc	n = 1.1	n + 1.3	n + 1.8
MG-50	200		6.6	6.6	5.2	0.68	0.58	0.41
MG-65	280		4.0	4.6	3.6	0.96	0.82	0.58
MG-80	380		3.8	4.4	3.5	1.30	1.09	0.79
MG-100	650		3.7	3.9	3.0	2.22	1.88	1.37
MG-125	980		3.3	4.0	3.1	3.35	2.83	2.05
MG-150	1240		2.8	4.2	3.3	4.23	3.59	2.60
MG-200	2190		2.8	3.7	2.9	7.48	6.35	4.58
MG-250	3210		2.5	2.8	2.1	10.96	9.29	6.73
MG-300	4550		2.1	2.7	2.1	15.54	13.11	9.49
MG-400	7170		2.4	2.6	2.0	24.49	20.70	14.96

(1) Use always the smallest available mixing tube for the required capacity. (Typical turn down of the mixing tubes mixture flow is 1/5 of max. rated flow).

(2) The shown air p (10.63 "wc) = the Δp between upstream air pressure and downstream mixture pressure at maximum listed airflow. (The lower p (2.8" wc - 4.0" wc) = Δp between air test connection and mixture test connection – for info only). Pressure drops are only shown for combustion system design - the mixing tube is not to be used as a flowmeter.

(3) Differential pressure between gas test connection and mixture test connection.

Connections of "MG" mixing tubes

Standard "MG" mixing tubes have PN10 (DIN 2576) flanges for air inlet and mixture outlet. Gas inlet is threaded up to and including 2" (ISO 7 cylindrical female, conical male), flanged above 2" (PN10 DIN2576).

Optional, mixing tubes with other flanges (other pressure ratings or ANSI-flanges) are available.

Materials of Construction

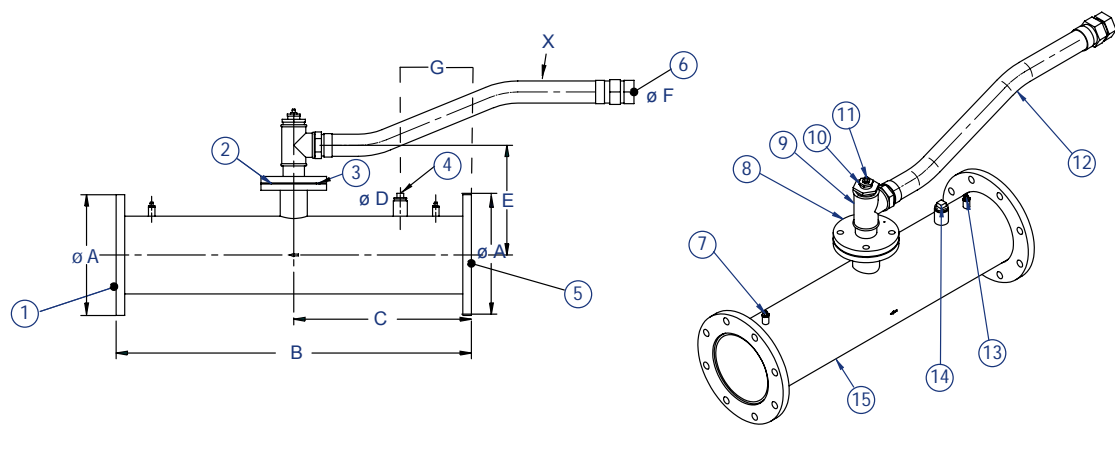
Standard "MG" mixing tubes are made of seamless carbon steel tubes and carbon steel fittings. Weld quality corresponds with (European) requirements for fuel gas piping. Flexible hoses have stainless steel hoses with malleable cast iron nipples and unions. Standard painting of the mixing tubes will give sufficient corrosion protection for indoor installations. Specify outdoor installation if better paint system is required.

Optional available: 100 % stainless steel "MG" mixing tubes (AISI 304 – 1.4301, and other materials).

Dimensions & weights

MG-50 to MG-200

- 1) Mixture outlet
- 2) Gasket
- 3) Grooved pin
- 4) By-pass
- 5) Air inlet
- 6) Fuel gas inlet
- 7) Test nipple
- 8) Gas orifice
- 9) Tee- 10) Reducing bush
- 11) Testnipple
- 12) Flexible
- 13) Testnipple
- 14) Plug
- 15) Mixing body

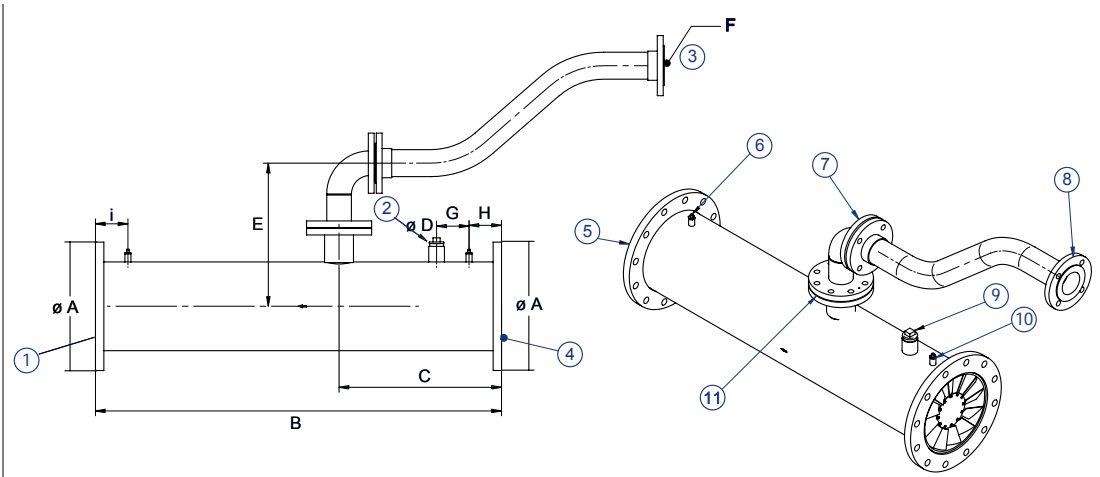


Dimensions in inches (unless stated otherwise)

"MG" mixer size	øA ANSI 150 lbs	B	C	øD	E	F NPT	G	X	Weight lbs
MG-50	2"	19.69	9.94	1/4"	8.11	3/4"	5.91	19.69	9
MG-65	2.1/2"	19.69	9.94	1/4"	8.11	3/4"	5.91	19.69	13
MG-80	3"	19.69	9.94	1/2"	8.39	1"	5.91	19.69	18
MG-100	4"	19.69	9.94	1/2"	9.57	1"	5.91	19.69	24
MG-125	5"	19.69	9.94	3/4"	10.55	1.1/4"	5.91	39.37	37
MG-150	6"			3/4"	11.42	1.1/2"	5.91	39.37	68
MG-200	8"	39.37		1"	12.17	2"	7.87	39.37	110

MG-250 to MG-400

- 1) Mixture outlet
- 2) By-pass
- 3) Fuel gas inlet
- 4) Air inlet
- 5) Mixing body
- 6) Test nipple
- 7) Gas orifice
- 8) Flexible
- 9) Plug
- 10) Test nipple
- 11) Gasket



Dimensions in inches (unless stated otherwise)											
"MG"mixer size	$\varnothing A$	B	C	$\varnothing D$	E	F	G	H	I	X	Weight lbs
	ANSI 150 lbs			NPT		ANSI 150 lbs					
MG-250	10"	49.21	19.69	1.1/4"	17.36	2.1/2"	3.93	3.93	3.93	39.37	240
MG-300	12"	59.06	19.69	1.1/2"	19.06	3"	3.93	3.93	3.93	39.37	395
MG-400	16"	78.74	19.69	2"	22.13	4"	3.93	3.93	3.93	39.37	617