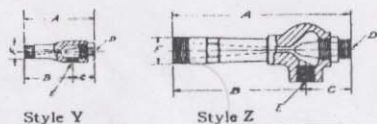




# Venturi Mixers



Venturi Mixer No. †	DIMENSIONS			PIPE SIZE			Style
	A	B	C	Air D	Gas E	Outlet F	
11	2 5/8"	1 13/16"	1 3/16"	1/8"	1/8"	1/8"	Y
12	3 7/16"	2 11/32"	1 5/8"	1/8"	1/8"	1/8"	Y
13	5 9/16"	3 15/16"	1 5/8"	3/8"	3/8"	3/8"	Z
14	6 7/8"	5"	1 13/16"	1/2"	1/2"	1/2"	Z
15	9 5/8"	7 3/8"	2 1/2"	5/8"	3/4"	1 1/4"	Z
16	12 1/4"	9 11/16"	2 1/2"	1"	1"	1 1/2"	Z
17	15 1/4"	12 5/16"	3"	1 1/8"	1 1/8"	2"	Z
18	18"	14 13/16"	3 1/8"	1 1/2"	1 1/2"	2 1/2"	Z

† This No. indicates the body size only. When ordering select according to capacity from table at right.

These Venturi Mixers are supplied to use air at from 12 ounces to 24 ounces per square inch pressure at the mixer with gas at 2" to 8" water column pressure, the air entraining the gas as it passes through the Venturi throat of the mixer. A gas booster is unnecessary unless pipe lines are undersize.

Careful design and manufacture insures maximum operating efficiency, that is, maximum suction on the gas, thorough mixing of the air and gas, and proportioning of the air and gas within limits. If, however, there is considerable variation in the gas line pressure, it will be reflected in the proportions of air and gas in the mixture going to the burners.

These Venturi Mixers form an important part of our Single Valve Ratio Sets where the gas pressure is reduced to atmospheric by means of the Zero Governor, per the preceding page, thus giving with them the maximum operating range with one valve control.

On equipment where a Single Valve Ratio Set is desired (see page 4) and the burners are subdivided into two or more sections, one Venturi Mixer may be used on each section of burners with only one zero governor in the main gas line.

The capacity figures are based on one cubic foot of air per 130 B.T.U.'s, which is slightly on the reducing side and are based on

# Venturi Mixers (cont'd.)

using air at the pressures indicated to deliver an air-gas mixture at a manifold pressure of 8" water column.

Note: To find air capacity in cu. ft. per min., divide number below by 7800.

Mixer No.	GAS CAPACITY IN B.T.U. PER HR. at Various Air Pressures at Mixer						
	Body No.	Inject- or No.	16 oz.		24 oz.		
			12 oz.	B.T.U. Equiv. C.F.H. Nat. Gas			
11	11	11	11,200	13,000	12	14,500	15,900
12			17,700	20,500	20	23,000	24,900
13-12			25,500	29,500	28	32,800	36,000
*13-14			34,700	40,000	38	44,700	48,900
*13-16			45,200	52,200	51	58,300	63,900
*13-18			57,300	66,000	63	73,800	80,900
14-14			34,700	40,000	38	44,700	48,900
14-16			45,200	52,200	51	58,300	63,900
14-18			57,300	66,000	63	73,800	80,900
14-20			70,600	81,500	77	91,100	99,800
*14-22			85,400	98,500	94	110,100	120,600
*14-24			102,000	117,500	112	131,200	143,700
15-22			85,400	98,500	94	110,100	120,600
15-24			102,000	117,500	112	131,200	143,700
15-26			119,200	137,600	130	153,800	168,500
15-28			138,600	160,000	152	178,800	195,900
*15-30			159,100	183,600	175	205,200	224,800
16-30			159,100	183,600	175	205,200	224,800
16-32			180,800	208,700	198	233,300	255,600
16-34			204,100	235,600	224	263,400	288,500
16-36			229,100	264,400	251	295,500	323,800
*16-38			255,300	294,600	280	329,300	360,800
*16-40			282,800	326,400	310	364,900	399,700
17-38			255,300	294,600	280	329,300	360,800
17-40			282,800	326,400	310	364,900	399,700
17-42			311,900	360,000	342	402,400	440,900
17-44			342,100	394,800	375	441,300	483,500
17-46			373,400	430,900	409	481,700	527,700
*17-48			406,600	469,200	446	524,500	574,600
*17-52			477,800	551,400	524	616,400	675,300
18-48			406,600	469,200	446	524,500	574,600
18-52			477,800	551,400	524	616,400	675,300
18-56			554,600	640,000	608	715,500	783,800
18-60			635,700	733,600	697	820,100	898,500
18-64			723,500	834,900	793	933,400	1,022,500

No. 11 and 12 Venturi Mixer sizes are critical, specify hourly b.t.u. consumption required. If b.t.u. consumption is unknown, specify total amount and model number of burners each mixer is to serve. (Refer to Bulletin 629 for listing of mixer sizes.)

\*For maximum efficiency, next larger mixer body with same injector size should be selected.

# AGF Burner, Inc. Venturi Mixers

#11

#12

#13

#14

#15

#16

#17

#18

