

Gas Pressure Regulators for Zero Governor Service

RZ & 210Z

MAXIMUM INLET PRESSURES

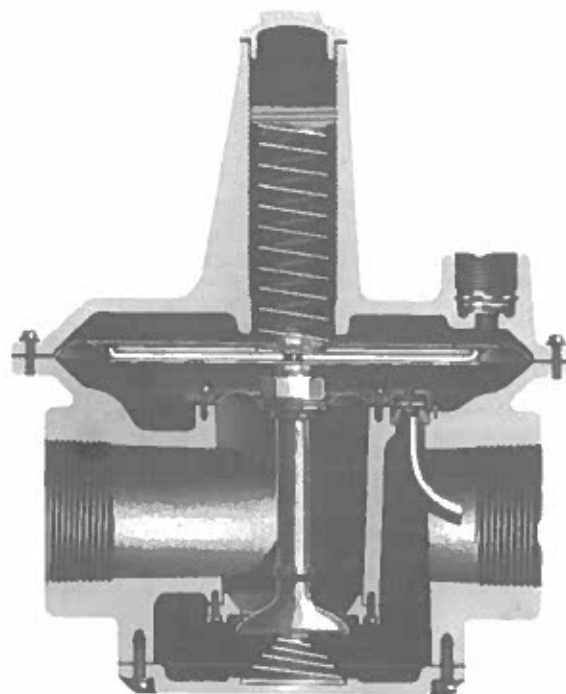
RZ Models 1 psi (68 mbar)

210Z Models 5 psi (340 mbar)

GASES: Natural, manufactured, mixed liquified petroleum or LP gas-air mixture.

MOUNTING: Upright Only

NOTE: All Maxitrol regulators should be installed and operated in accordance with Maxitrol's "Safety Warning" Bulletin.



Zero Governor

Both the RZ and 210Z series are adaptable for air-gas mixing applications. They may be used for outlet pressures close to atmospheric, from slightly above to slightly below (-1.0" to 1.5" w.c.; -2.5 mbar to 3.75 mbar).

Because of balanced valve construction, Z models offer superior performance at an economic price to other type atmospheric regulators.

Covenient tap locations are provided on the 210Z models, for downstream sensing, cross con-

nections, and differential control. Four locations can be tapped and plugged for measuring pressure (see back page).

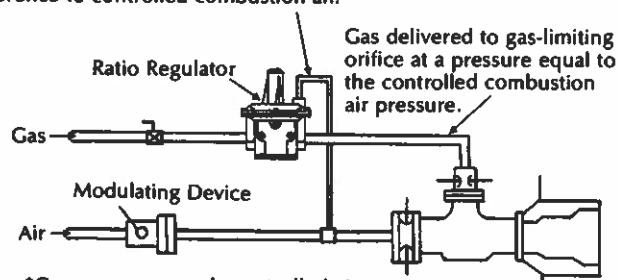
Pipe sizes are consistent with standard models — 3/8" to 1" for the RZ series, and 1" to 4" for the 210Z series. Metric threads are also available.

Maxitrol Z model regulators are used for flow control of burners, nozzle mixers, mixing tees, and proportional premixers.

TYPICAL APPLICATIONS

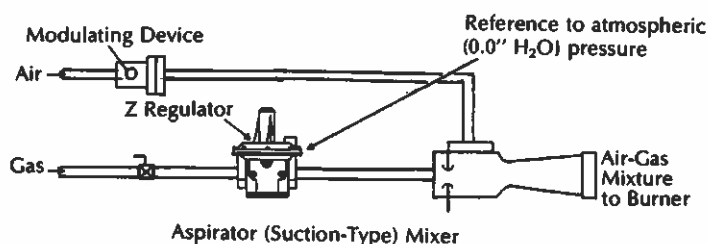
Ratio Regulator

Reference to controlled combustion air.

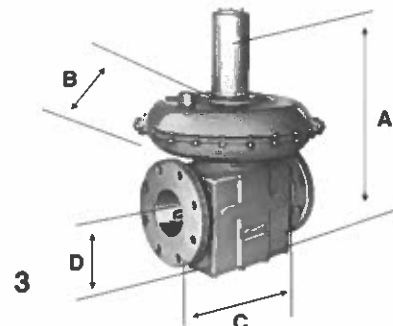
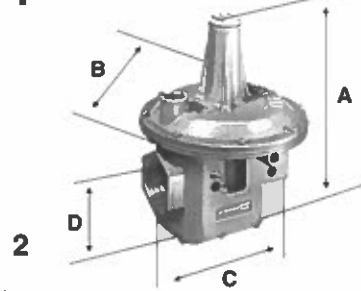
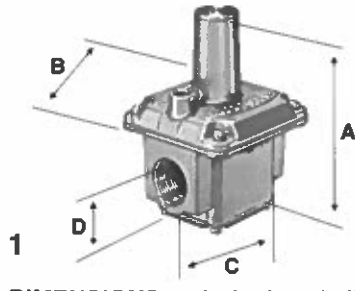


*Gas pressure equals controlled air pressure
Adjustable spring bias.

Atmospheric Regulator



Dimensions and Capacities



DIMENSIONS — in inches (millimeters)

Model and Illustration Number		Swing Radius	Call-Outs			
			A	B	C	D
R400Z	1	2.38 (60)	3.25 (83)	2 (51)	2 (51)	.94 (24)
R500Z	1	3.56 (90)	4.69 (119)	3.13 (79)	3 (76)	1.19 (30)
R600Z	1	4.32 (109.7)	5.68 (144.3)	3.88 (98.3)	4.03 (102.4)	1.46 (37.1)

DIMENSIONS — in inches (millimeters)

Model and Illustration Number		Swing Radius	Call-Outs			
			A	B	C	D
210DZ	2	5.44 (138)	9 (229)	7 (178)	6 (152)	2.38 (60)
210EZ	2	8.31 (211)	11.25 (286)	9.13 (232)	8 (203)	2.94 (75)
210GZ	2	11.88 (302)	16.5 (419)	13.5 (343)	11.75 (138)	4.56 (116)
210JZ	3	18.38 (467)	24.25 (616)	18 (457)	13.75 (349)	5.44 (138)

CAPACITIES — expressed in CFH (m³/h) @ 0.64 sp gr gas

Model Number and Pipe Size		Pressure Drop Inches w.c. (mbar)										
		0.2 (.50)	0.4 (1.00)	0.6 (1.5)	0.8 (2.0)	1.0 (2.5)	1.5 (3.7)	2.0 (5.0)	2.5 (6.2)	3.0 (7.5)	3.5 (8.7)	4.0 (10.0)
R400Z*	3/8 X 3/8	77 (2.16)	110 (3.08)	134 (3.75)	155 (4.34)	174 (4.87)	212 (5.94)	245 (6.86)	274 (7.67)	—	—	—
	1/2 X 1/2	86 (2.41)	121 (3.39)	148 (4.14)	172 (4.82)	192 (5.38)	235 (6.58)	271 (7.59)	303 (8.48)	—	—	—
R500Z*	1/2 X 1/2	163 (4.56)	231 (6.47)	283 (7.92)	327 (9.16)	366 (10.25)	447 (12.52)	516 (14.55)	577 (16.16)	635 (17.78)	685 (19.18)	730 (20.44)
	3/4 X 3/4	196 (5.49)	277 (7.76)	340 (9.52)	392 (10.97)	438 (12.26)	537 (15.04)	620 (17.36)	693 (19.40)	760 (21.28)	820 (22.96)	876 (24.53)
R600Z*	3/4 X 3/4	298 (8.34)	421 (11.79)	516 (14.45)	595 (16.66)	666 (18.65)	816 (22.85)	942 (26.38)	1,054 (29.51)	1,150 (32.20)	1,245 (34.86)	1,335 (37.38)
	1X1	330 (9.24)	468 (13.10)	572 (16.02)	661 (18.21)	739 (20.69)	906 (25.37)	1,046 (29.29)	1,169 (32.73)	1,280 (35.84)	1,380 (38.64)	1,480 (41.44)

*A.G.A. Certified

CAPACITIES — expressed in CFH (m³/h) @ 0.64 sp gr gas

Model Number and Pipe Size		Pressure Drop Inches w.c. (mbar)										
		0.1 (.25)	0.3 (.75)	0.5 (1.25)	1.0 (2.5)	3.0 (7.5)	5.0 (12.5)	7.0 (17.4)	1/2 psi (34.5)	3/4 psi (51.7)	1psi (68.9)	1.5 psi (103.4)
210DZ	1 X 1	—	—	—	900 (25.20)	1600 (44.80)	2000 (56.00)	2400 (67.20)	3300 (92.40)	4100 (114.80)	4750 (133.00)	5800 (162.40)
	1 1/4 X 1 1/4	—	—	—	1100 (30.80)	1900 (53.20)	2500 (70.00)	2900 (81.20)	4100 (114.80)	5000 (140.00)	5850 (163.80)	7150 (200.20)
	1 1/2 X 1 1/2	—	—	—	1200 (33.60)	2100 (58.80)	2700 (75.60)	3200 (89.60)	4500 (126.00)	5500 (154.00)	6350 (176.40)	7750 (217.00)
210EZ	1 1/2 X 1 1/2	—	1050 (29.40)	1350 (37.80)	1915 (53.60)	3315 (92.80)	4280 (119.80)	5065 (141.80)	7125 (199.50)	8725 (244.30)	10075 (282.10)	12340 (345.50)
	2 X 2	—	1210 (33.90)	1560 (43.70)	2210 (61.90)	3825 (107.10)	4940 (138.80)	5845 (163.70)	8225 (230.30)	10070 (282.00)	11630 (325.60)	14245 (399.00)
210GZ	2 1/2 X 2 1/2	1410 (39.50)	2450 (68.60)	3160 (88.50)	4470 (125.20)	7740 (216.70)	9995 (279.90)	11825 (331.10)	16635 (465.80)	20375 (570.50)	23525 (658.70)	28810 (806.70)
	3 X 3	1555 (43.50)	2695 (75.50)	3475 (97.30)	4920 (137.80)	8520 (238.60)	11000 (308.00)	13020 (364.60)	18310 (512.70)	22425 (627.90)	25890 (724.90)	31710 (887.90)
210JZ	4 X 4	2700 (75.60)	4700 (131.60)	6000 (168.00)	8600 (240.80)	15000 (420.00)	19000 (532.00)	23000 (644.00)	32000 (896.00)	40000 (1120.00)	45500 (1274.00)	55700 (1559.60)

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