

D220 series pilot loaded models



NOT CSA CERTIFIED

CAPACITIES to 50,000 CFH
EMERGENCY EXPOSURE 25 psi
INLET PRESSURES to 15 psi
OUTLET PRESSURE 1 psi to 5 psi

The D220 series, utilizing a servo-operated design rather than the more conventional spring-loaded design, delivers higher outlet pressure than the spring loaded models.

The main diaphragm on the Maxitrol D220 is loaded with gas pressure rather than with a spring. This gas pressure is precisely controlled by a small pilot regulator in the upper housing. When the regulated outlet pressure of the pilot regulator is changed, by spring adjustment, the outlet pressure of the main regulator will change proportionately.

Outlet pressure adjustments are readily made by first removing the hood of the Maxitrol D220. Then remove the cap atop the pilot regulator, which exposes the adjusting screw, and adjust to desired pressure.

Three positions can be tapped and plugged for making inlet or outlet pressure readings. The fourth position is used to supply inlet pressure to the pilot regulator. Remote sensing is also available.

D220 series industrial regulators are intended for use with all fuel gases.

The regulator will perform most accurately when mounted in an upright position in a horizontal pipe run. Gas flow must be oriented to arrow on regulator. When selecting for pipe size, make sure regulator is not more than one size larger or smaller than manifold pipe size.

Single vent, equipped with model 12A06 vent limiting orifice, is located in upper housing.

Ambient temperature limits are -40°F to 200°F. Maximum emergency exposure pressure is 25 psi. At this pressure the regulator will suffer no internal damage but it may not provide accurate regulation.

Two outlet pressure adjustment springs are available.

R325C10-1022 (K spring) **1 psi to 3 psi**
R325C10-1530 (L spring) **2 psi to 5 psi**

Pressure drop and dimensions

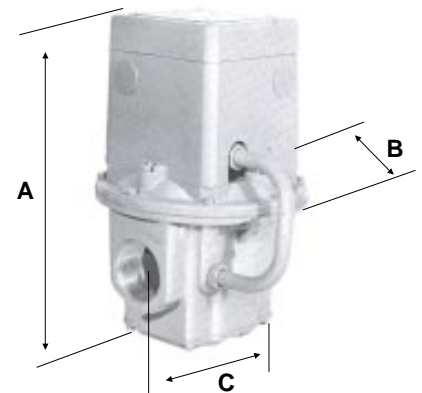
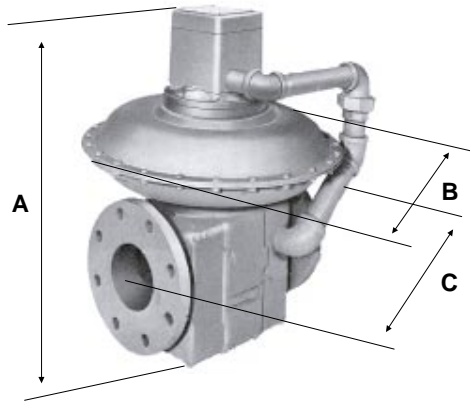
PILOT LOADED DESIGN

Flow Rate CFH	Values expressed in inches w.c.							
	D220D			D220E		D220G		D220J
	1"	1 1/4"	1 1/2"	1 1/2"	2"	2 1/2"	3"	4"
1,000	1.90	1.70	1.70					
2,000	4.93	3.10	2.90	1.90	1.90			
3,000	11.10	7.42	5.40	2.90	2.40			
4,000	19.70	13.20	11.10	4.93	4.00	2.00	1.90	1.70
5,000	30.80	20.70	17.40	7.70	6.25	2.20	2.10	1.70
6,000	44.20	29.70	25.00	11.10	9.00	2.60	2.30	1.70
7,000		40.60	34.00	15.10	12.25	3.00	2.60	1.70
8,000			44.50	19.70	16.00	4.00	3.00	1.80
9,000				24.90	20.25	5.00	3.80	1.90
10,000				30.80	25.00	6.22	4.60	2.10
12,000				44.20	36.00	9.00	6.80	2.40
14,000						12.20	9.30	2.80
16,000						16.00	12.10	3.40
18,000						20.20	15.30	4.40
20,000						25.00	18.90	5.40
25,000						40.60	30.70	8.90
30,000							42.50	12.40
35,000								17.05
40,000								21.70
45,000								27.40
50,000								33.80
55,000								41.00

NOTE: Do not exceed 36" pressure drop when determining acceptable capacities at which these controls may be used. Under some conditions these limits may be surpassed, but only after consultation with Maxitrol Company. (NOT CSA CERTIFIED)

DIMENSIONS

Model	A	B	C
D220D	10-3/16"	7"	6"
D220E	11-1/4"	9-1/8"	7-5/8"
D220G	14-3/4"	13-1/2"	10-3/8"
D220J	20-1/2"	18"	13-7/8"



A copyrighted publication of

MAXITROL  **company**
www.maxitrol.com

Maxitrol Company
23555 Telegraph Rd., P.O. Box 2230
Southfield, MI 48037-2230 U.S.A.
248.356.1400 • Fax 248.356.0829



European Representatives
Warnstedter Strasse 3 06502 Thale, Germany
49.3947.400.0 • Fax 49.3947.400.200
Industriestrasse 1 48308 Senden, Germany
49.2597.9632.0 • Fax 49.2597.9632.99

