# GAS PRESSURE REGULATORS CATALOG 2<sup>nd</sup> Edition





#### **A** WARNING

#### Service and installation must be performed by a trained/experienced service technician.

All products used with combustible gas **must** be installed and used **strictly** in accordance with the instructions of the Original Equipment Manufacturer (OEM) and with all applicable government codes and regulations, e.g. plumbing, mechanical, and electrical codes and practices. Maxitrol products should be installed and operated in accordance with Maxitrol Safety Warning Instructions.

Maxitrol Company is NOT responsible for any errors or omissions in reliance by anyone of any information set forth in this catalog without additional reference to local requirements and applicable ordinances or codes.

Other worldwide approvals and certifications available upon inquiry.



## **325 SERIES** Lever Acting Design

Maxitrol's 325 Series pounds to inches regulators are for use on residential, commercial, and industrial applications. The 325 Series features a high leverage valve linkage assembly to deliver positive dead-end lockup. The regulators are capable

of precise control from full flow down to pilot flow.



### **Specifications**

Pine Sizes	3/8" to 2" threaded connections with NPT or ISO7-1 threads.
·	
Housing Material	325-3, 325-5, 325-7A, 325-9: aluminum.
Mounting	Suitable for multi-positional mounting. If ball check vent limiting device is installed, mount in an upright position only.
	<b>NOTE:</b> All Maxitrol gas pressure regulators should be installed and operated in accordance with Maxitrol Safety Warning Instructions (see GPR_MI_EN.ES or GPR_CSA_MI_EN.FR).
Certifications	325-3, 325-5: ANSI Z21.18/CSA 6.3 Gas Appliance Pressure Regulators.
Gas Types	Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air
	mixtures.
Maximum Inlet Pressure	CSA Certified: 325-3, 325-5: 2 psi (13.8 kPa), 5 psi (34.5 kPa) Maxitrol Tested: 325-3, 325-5, 325-7A, 325-9: 10 psi (69 kPa) <i>With Vent Limiter 12A09, 12A39, or 12A49 Installed:</i> 325-3, 325-5, 325-7A, 325-9: 5 psi (34.5 kPa) - Natural, 2 psi (13.8 kPa) - LP
Emergency Exposure Limits	65 psi (450 kPa) (inlet side only)
Maximum Individual Load	Largest single appliance served by the regulator: 325-3: 100,000 Btu/h; 325-5: 325,000 Btu/h; 325-7A: 1,250,000 Btu/h, 325-9: 2,250,000 Btu/h
Capacity	Total load of multiple appliances combined: 325-3: 150,000 Btu/h; 325-5: 325,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h <b>NOTE:</b> Capacities are used to determine the maximum multiple appliance load. The largest single appliance served by the regulator should not exceed the maximum individual load specified above.
Ambient Temperature Ranges	40 to 205°F (-40 to 96°C)
Minimum Regulation	Suitable for pilot flow applications. 🗩 (Circle P) (0.15 CFH NG), None (1.5 CFH NG).
Imblue Technology™	325-3, 325-5, 325-7A, 325-9 models may be ordered with Imblue Technology <sup>™</sup> . Imblue Technology <sup>™</sup> increases corrosion resistance and provides extra protection against the elements for regulators used in outdoor applications. Add suffix letter "B" to model number when ordering.







#### **Capacities:** based on 1" w.c. pressure drop, from set point\*\*

Model Pipe		Outlet Pressure Set Point	CSA MAX CFH	Operating Inlet Pressure						
	Pipe Size			0.5 psi (3.4 kPa)	0.75 psi (5.2 kPa)	1 psi (6.9 kPa)	2 psi (13.8 kPa)	5 psi (34.5 kPa)	10 psi (69.0 kPa)	
		4.0" w.c. (1.0 kPa)	150 (4.2)	160 (4.5)	190 (5.4)	220 (6.2)	220 (6.2)	300 (8.5)	320 (9.1)	
325-3 3/8" x 3/8" 1/2" x 1/2"	7.0" w.c. (1.7 kPa)	150 (4.2)	120 (3.4)	150 (4.2)	180 (5.1)	220 (6.2)	290 (8.2)	320 (9.1)		
	1/2 X 1/2	10.0″ w.c. (2.5 kPa)	150 (4.2)	100 (2.8)	120 (3.4)	150 (4.2)	220 (6.2)	280 (7.9)	320 (9.1)	
	1/2" x 1/2"   325-5 3/4" x 3/4"   1" x 1"	4.0" w.c. (1.0 kPa)	325 (9.2)	340 (9.6)	390 (11.0)	450 (12.7)	560 (15.9)	680 (19.3)	750 (21.2)	
325-5		7.0" w.c. (1.7 kPa)	325 (9.2)	260 (7.4)	360 (10.2)	410 (11.6)	530 (15.0)	680 (19.3)	750 (21.2)	
		10.0″ w.c. (2.5 kPa)	325 (9.2)	240 (6.8)	320 (9.1)	360 (10.2)	500 (8.5)	650 (18.4)	750 (21.2)	
		4.0" w.c. (1.0 kPa)	_	850 (24.0)	1060 (30.0)	1190 (33.7)	1600 (45.3)	2090 (59.2)	2190 (62.0)	
325-7A 1 1/4" x 1 1/4" 1 1/2" x 1 1/2"	7.0" w.c. (1.7 kPa)		780 (22.0)	950 (26.9)	1060 (30.0)	1500 (42.5)	1860 (52.7)	2060 (58.3)		
	10.0″ w.c. (2.5 kPa)		650 (18.4)	860 (24.4)	990 (28.0)	1300 (36.8)	1620 (45.9)	2060 (58.3)		
325-9 1 1/2" x 1 1/2" 2" x 2"	4.0" w.c. (1.0 kPa)		1815 (51.4)	2075 (58.8)	2250 (63.7)	2660 (75.3)	3550 (100.5)	3750 (106.2)		
		7.0" w.c. (1.7 kPa)		1430 (40.5)	1660 (47.0)	1960 (55.5)	2570 (72.8)	3420 (96.8)	3750 (106.2)	
	10.0" w.c. (2.5 kPa)		1275 (36.1)	1450 (41.1)	1720 (48.7)	2160 (61.2)	3150 (89.2)	3750 (106.2)		

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

NOTE: Maximum Individual Load: 325-3(B) is 100 CFH (2.8 m<sup>3</sup>/h); 325-5(B) is 325 CFH (9.2 m<sup>3</sup>/h); 325-7A(B) is 1250 CFH (35.4 m<sup>3</sup>/h); 325-9(B) is 2250 CFH (63.7). Approval based on use as an appliance regulator. \*\*Set points (in CFH): 325-3(B) = 50; 325-5(B) = 150; 325-7A(B) = 500; 325-9(B)=1000. See pages 58-59 for Regulator Sizing Requirements and Examples.

#### **Pressure Drop:** 0.64 sp gr gas expressed in CFH (m<sup>3</sup>/h) (for system pressure drop calculations)

Model	7.0" w.c. (1.7 kPa)	0.5 psi (3.4 kPa)	0.75 psi (5.2 kPa)	1 psi (6.9 kPa)	2 psi (13.8 kPa)
325-3	145 (4.0)	204 (5.8)	250 (7.0)	289 (8.2)	—
325-5	400 (11.3)	550 (15.6)	670 (19.0)	770 (21.8)	_
325-7A	815 (23.1)	1149 (32.5)	1405 (39.8)	1624 (46.0)	2305 (65.3)
325-9	1360 (38.5)	2113 (59.8)	2557 (72.4)	2949 (83.5)	4059 (114.8)

#### Spring Selection Chart: inches w.c. (kPa) unless noted

Model	CSA Certified			Standard					
Number	2 psi (13.8 kPa)		5 psi (34.5 kPa)		Spring	Other Springs Available			
325-3	5 to 9 (1.25 to 2.25) Plated	7 to 11 (1.7 to 2.7) White	6 to 10 (1.5 to 2.5) Plated	7 to 11 (1.7 to 2.7) White	4 to 12 (1.0 to 3.0) Violet	2 to 6 (0.5 to 1.5) Plated	10 to 22 (2.5 to 5.5) Red	15 to 30 (3.7 to 7.5) Yellow	1 to 2 psi (6.9 to 13.9) Tagged
325-5	5 to 9 (1.25 to 2.25) Plated	7 to 11 (1.7 to 2.7) White	6 to 10 (1.5 to 2.5) Plated	7 to 11 (1.7 to 2.7) White	4 to 12 (1.0 to 3.0) Violet	2 to 6 (0.5 to 1.5) Plated	10 to 22 (2.5 to 5.5) Red	15 to 30 (3.7 to 7.5) Yellow	1 to 2 psi (6.9 to 13.9) Tagged
325-7A					4 to 12 (1.0 to 3.0) Violet	2 to 5 (0.5 to 1.5) Plated	10 to 22 (2.5 to 5.5) Red	15 to 30 (3.7 to 7.5) Yellow	20 to 42 (5.0 to 10.4) Black
325-9					4 to 12 (1.0 to 3.0) Violet	2 to 5 (0.5 to 1.5) Plated	10 to 22 (2.5 to 5.5) Red	15 to 30 (3.7 to 7.5) Yellow	20 to 42 (5.0 to 10.4) Black

NOTE: See pages 56-57 for complete Spring Selection Chart.

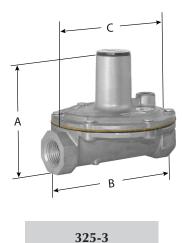


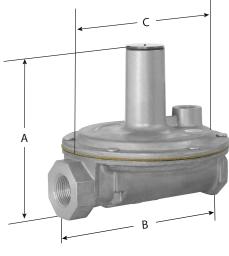
## **325 SERIES** Lever Acting Design

#### Dimensions

A de de l	D' C'	Vent Connection	Swing Radius	Dimensions			
Model	Pipe Size			А	В	С	
325-3	3/8", 1/2"	1/8″ NPT	3″ (76 mm)	3.5″ (89 mm)	4.2" (108 mm)	3.9″ (98 mm)	
325-5	1/2", 3/4", 1″	3/8″ NPT	4.9″ (124 mm)	5.3″ (133 mm)	5.9″ (149 mm)	5.4″ (138 mm)	
325-7A	1 1/4", 1 1/2"	1/2″ NPT	6.1″ (156 mm)	7.3″ (184 mm)	8″ (203 mm)	7″ (178 mm)	
325-9	1 1/2", 2″	1/2″ NPT	7.8″ (198 mm)	9.4″ (239 mm)	10.8″ (274 mm)	9.1″ (231 mm)	

**NOTE:** Dimensions are maximums and to be used only as an aid in designing clearance for the valve. Actual production dimensions may vary somewhat from those shown.

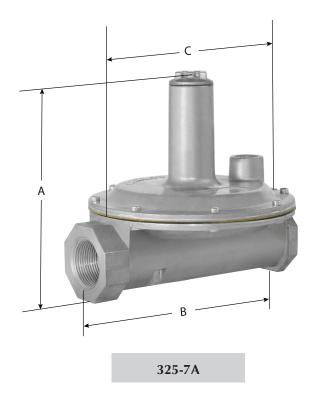


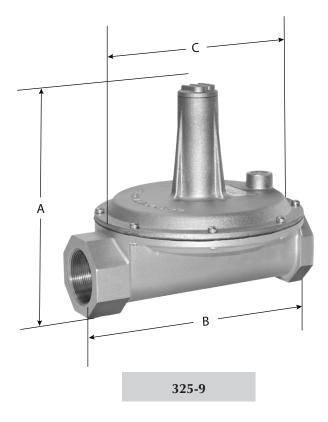


325-5

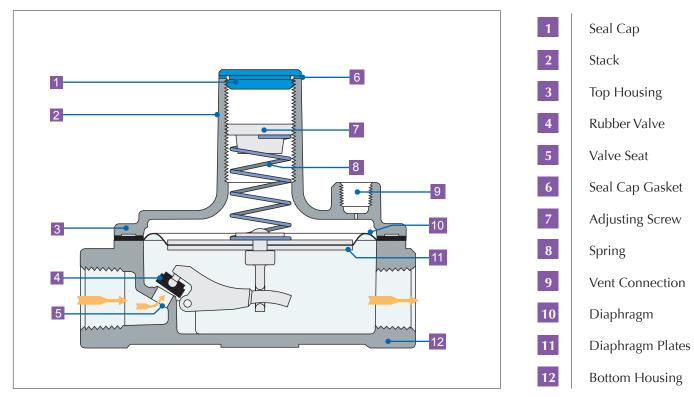






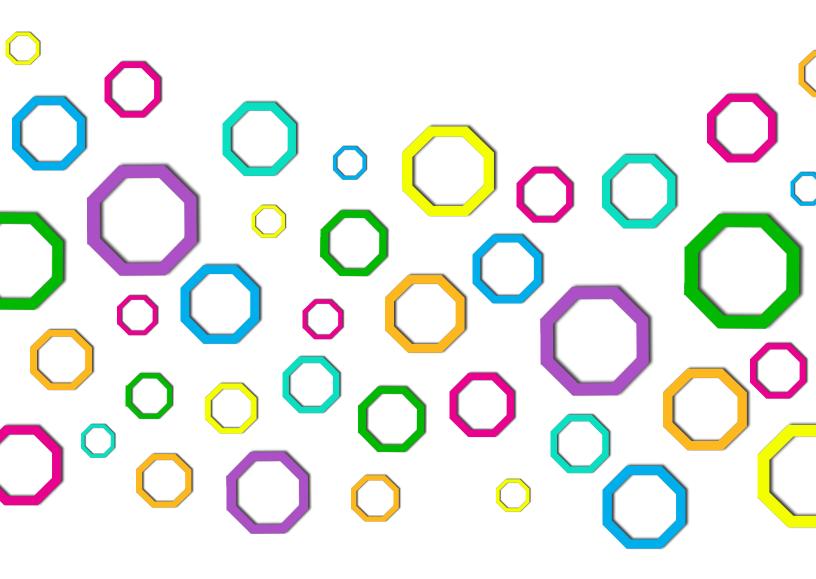


### Lever Acting Design



NOTE: Diagrams are graphical representations only and may differ from actual product.





Maxitrol Company 23555 Telegraph Rd., PO Box 2230 Southfield, MI 48037-2230



www.maxitrol.com © 2015 Maxitrol Company All Rights Reserved

GPR\_MS\_EN\_10.2015