GAS PRESSURE REGULATOR & MODULATOR CATALOG



6th 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

Pipe Sizes 3/8" to 3" threaded connections with NPT or ISO 7-1 threads. Housing Material 325-3, 325-5, 325-7A, 325-9, 325-11: aluminum. Mounting Suitable for multi-positional mounting. If a ↓Limiter* or ↓Protector* is installed, mount in an upright horizontal position only. NOTE: 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. Fuel Gases Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixtures. Rated 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; 325-11: 10 psi (69 kPa) With Vent Limiter 12209, 122349, or 122449 Installed: 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; 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-11: 4,500,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-11: 4,500,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-						
Mounting Suitable for multi-positional mounting. If a Limiter® or Protector® is installed, mount in an upright horizontal position only. NOTE: All Maxitrol gas pressure regulators should be installed and operated in accordance with Maxitrol Safety Warning Instructions (see GPR_ML_EN.ES or GPR_CSA_ML_EN.FR). Certifications 325-3, 325-5: ANSI Z21.18/CSA 6.3 Gas Appliance Pressure Regulators. Fuel Gases Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixtures. Rated Inlet Pressure CSA Certified: 325-3, 325-5: 2.59; 325-11: 10 psi (69 kPa) With Vent Limiter 12A09, 12A39, or 12A49 Installed: 325-3; 325-5; 325-7A, 325-9; 325-9; 325-11: 10 psi (69 kPa) With Vent Limiter 12A09, 12A39, or 12A49 Installed: 325-3; 325-5; 325-7A, 325-9; 55 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; 325-9; 2,250,000 Btu/h; 325-9; 2,250,000 Btu/h; 325-9; 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-9; 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-11: 4,500,000 Btu/h; 325-11: 4,500,	Pipe Sizes	3/8" to 3" threaded connections with NPT or ISO 7-1 threads.				
 mount in an upright horizontal position only. NOTE: All Maxitrol gas pressure regulators should be installed and operated in accordance with Maxitrol Safety Warning Instructions (see CPR_ML_EN.ES or CPR_CSA_ML_EN.FR). Certifications	Housing Material	325-3, 325-5, 325-7A, 325-9, 325-11: aluminum.				
 with Maxitrol Safety Warning Instructions (see GPR_ML_ENLES or GPR_CSA_ML_ENLFR). Certifications 325-3, 325-5: ANSI Z21.18/CSA 6.3 Gas Appliance Pressure Regulators. Fuel Gases Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixtures. Rated 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, 325-11: 10 psi (69 kPa) With Vent Limiter 12A09, 12A39, or 12A49 Installed: 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; 325-9: 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h NOTE: 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. 	Mounting					
Fuel Gases Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixtures. Rated Inlet Pressure CSA Certified: 325-3, 325-5: 2 psi (13.8 kPa), 5 psi (34.5 kPa) Maxitrol Tested 325-3, 325-7A, 325-7A, 325-9: 120 psi (69 kPa) With Vent Limiter 12409, 12249, or 12249 Installed: 325-3, 325-5, 325-7A, 325-9: 5 psi (34.5 kPa) - Natural, 2 psi (13.8 kPa) - LP Emergency Exposure Limits		NOTE: 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).				
gas-air mixtures. Rated 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, 325-11: 10 psi (69 kPa) With Vent Limiter 12A09, 12A39, or 12A49 Installed: 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; 325-9: 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h More: 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).	Certifications	325-3, 325-5: ANSI Z21.18/CSA 6.3 Gas Appliance Pressure Regulators.				
 Maxitrol Tested	Fuel Gases					
Maximum Individual Load Largest single appliance served by the regulator: 325-3: 100,000 Btu/h; 325-5: 325,000 Btu/h; (325-3 & 325-5 with 4" to 12" springs: 40,000 Btu/h); 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-5: 325,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-5: 325,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h More that the served by the regulator should not exceed 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. P (Circle P) (0.15 CFH NG), None (1.5 CFH NG).		325-3, 325-5, 325-7A, 325-9, 325-11: 10 psi (69 kPa) With Vent Limiter 12A09, 12A39, or 12A49 Installed:				
(325-3 & 325-5 with 4" to 12" springs: 40,000 Btu/h); 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h Capacity	Emergency Exposure Limits	65 psi (450 kPa) (inlet side only)				
 325-5: 325,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h; 325-11: 4,500,000 Btu/h NOTE: 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 Ranges40 to 205°F (-40 to 96°C) Minimum Regulation	Maximum Individual Load	(325-3 & 325-5 with 4" to 12" springs: 40,000 Btu/h); 325-7A: 1,250,000 Btu/h;				
Iargest single appliance served by the regulator should not exceed the maximum individual load specified above. Ambient Temperature Ranges40 to 205°F (-40 to 96°C) Minimum Regulation	Capacity	325-5: 325,000 Btu/h; 325-7A: 1,250,000 Btu/h; 325-9: 2,250,000 Btu/h;				
Minimum Regulation Suitable for pilot flow applications. (Circle P) (0.15 CFH NG), None (1.5 CFH NG).		largest single appliance served by the regulator should not exceed the maximum				
	Ambient Temperature Ranges40 to 205°F (-40 to 96°C)					
		Suitable for pilot flow applications. (P) (Circle P) (0.15 CFH NG), None (1.5 CFH NG).				

Maxitrol vent limiting devices eliminate the need to run vent piping to the outside. Vent limiting devices are designed for use indoors and in spaces where limiting the amount of gas escapement due to diaphragm failure is critical. **Vent limiting devices should not be used outdoors if they are exposed to the environment.** When installed outdoors, the use of a ceritfied Maxitrol Vent Protector is recommended.

APPLIANCE REGULATORS

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

		Outlet Pressure Set Point	CSA	Operating Inlet Pressure					
Model Pipe Siz	Pipe Size		MAX CFH	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 A 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"	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	3/4" x 3/4"	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)
	1" x 1"	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	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)
	. 1/2 AT 1/2	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)
		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)
325-9	325-9 1 1/2" x 1 1/2" 2" x 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)	
	2″ x 2″ 325-11 2 1/2″ x 2 1/2″	4.0″ w.c.		2800 (79.3)	3850 (109.0)	4550 (128.8)	5530 (156.6)	6120 (173.3)	9150 (259.1)
325-11		7.0″ w.c.		1940 (54.9)	3000 (85.0)	3700 (104.8)	4750 (134.5)	5650 (160.0)	9150 (259.1)
	3" x 3"	10.0″ w.c.		1440 (40.8)	2320 (65.7)	2800 (79.3)	4420 (125.2)	5400 (152.9)	9150 (259.1)

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

NOTE: Maximum Individual Load: 325-3(B) is 100 CFH (2.8 m³/h); 325-5(B) is 325 CFH (9.2 m³/h); 325-7A(B) is 1250 CFH (35.4 m³/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; 325-11(B) = 2000. See pages 58-59 for Regulator Sizing Requirements and Examples.

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

Madal	CSA Certified		Standard						
Model	2 psi (13	(13.8 kPa) 5 psi		4.5 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
325-11					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.

** CSA certified per request, limited capacity.

325 SERIES Lever Acting Design

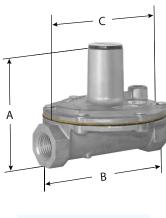
Pressure Drop: 0.64 sp gr gas expressed in CFH (m³/h) (for system pressure drop calculations)

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)
325-11	3000 (85.0)	4220 (119.5)	5170 (146.4)	6000 (169.9)	8485 (240.3)

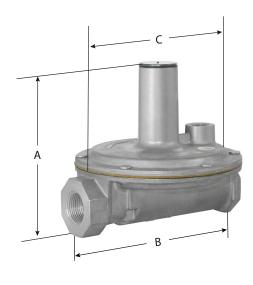
Dimensions

Ada dal	Pipe Size	Vent Connection	Swing Radius	Dimensions			
Model				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)	
325-11	2", 2 1/2"	3/4″ NPT	11.0" (279 mm)	13.1″ (333 mm)	16.1″ (409 mm)	13.5″ (343 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.

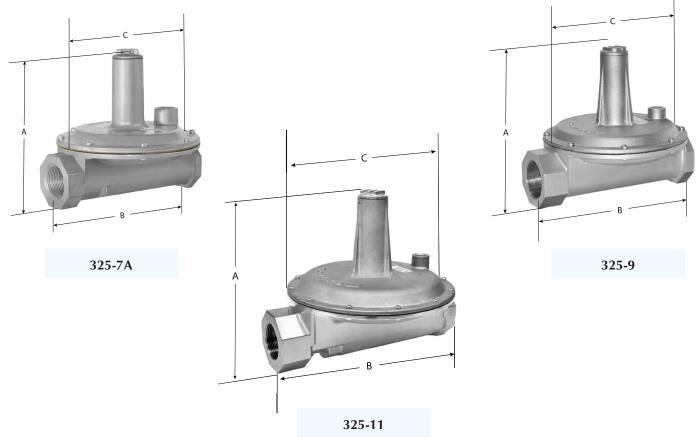


325-3

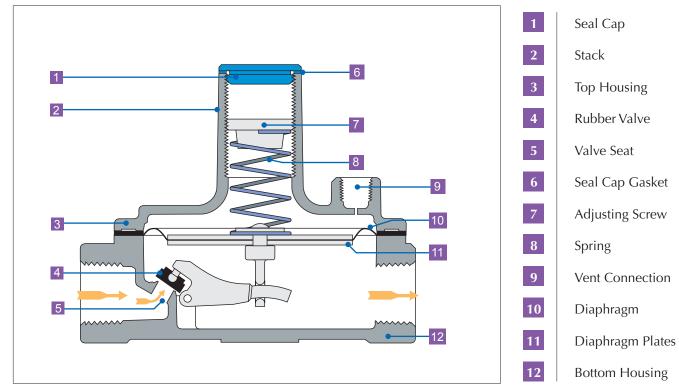


325-5

APPLIANCE REGULATORS



Lever Acting Design



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



SIZING A REGULATOR

See www.maxitrol.com for our Regulator Sizing Program. Please contact Maxitrol directly for more information on sizing a regulator.

System Requirements

When sizing a regulator the following must be known:

- Gas Type •
- Available Inlet Pressure
- Desired Outlet Pressure •
- Zero Governor Application (indicated by model number ending in "Z")
- Will the regulator control main burner and pilot load OR main burner only?
- Required minimum and maximum flow rate in cfh or m³/h or Btu/h
- **Pipe Size**

In most cases, the manifold pipe size has already been selected on the basis of good engineering practice, and the regulator pipe size should conform to this size.

The capacity of any regulator is not an absolute value but will vary with the application depending on the prevailing differential pressure.

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. These instructions do NOT supersede OEM's installation or operating instructions.

All Maxitrol products should be installed and operated in accordance with Maxitrol Safety Warning Instructions.

HOW TO CALCULATE PRESSURE DROP AT VARIOUS FLOW RATES FROM CAPACITY CHART

LP Applications - When using natural gas pressure drop chart to determine LP pressure drop in terms of Btu/h, multiply NAT Btu/h by 1.61; in terms of CFH multiply NAT CFH by 0.645.

Formula: $P2 = P1 \times (Q2/Q1)^2$

P2 = Pressure drop at desired flow rate	Q2 = Desired flow rate
P1 = Known pressure drop	Q1 = Known flow rate

A. Check Capacity Chart, ensuring regulator has ample range of regulation and individual load capacities (for use with pilot) for the application.

B. Know the minimum encountered inlet pressure. MINIMUM INLET PRESSURE MINUS "P2" MUST BE GREATER THAN DESIRED OUTLET PRESSURE. Solve for "P2" using the formula above. (See examples on page 59.)

Sizing Examples

RUBBER SEAT POPPETS

For main burner and pilot load applications.

Example: To select an RV type regulator:

- Known: Single 150,000 Btu/h main burner; pipe size 1/2"; inlet pressure 7" w.c.; outlet pressure 4" w.c.
- Solution: The RV48 (1/2") has a maximum capacity of 230,000 Bth/h and a maximum individual load of 160,000 Btu/h. The pressure drop at a flow rate of 150,000 Btu/h is 0.4" w.c., well below the available differential of 3" w.c. The RV48 (without "L" fixed orifice) is the correct regulator to use for the application.

STRAIGHT-THRU-FLOW (S-T-F)

For main burner only applications not requiring a lockup type regulator. When sizing the S-T-F series, it is recommended that pressure drop not exceed 1/2 of available differential pressure.

Example: To select an RV type regulator:

- Known: Flow rate 2,000,000 Btu/h; pipe size 1 1/4"; inlet pressure 9" w.c.; outlet pressure 5" w.c.
- Solution: The RV81(1 1/4") has a maximum capacity of 2,500,000 Btu/h. The pressure drop at a flow of 2,000,000 Btu/h is 0.66" w.c. The RV81 (1 1/4") is the correct regulator to use with this application. The pressure drop of the RV61 (1 1/4") at a flow rate of 2,000,000 Btu/h is 2.64" w.c. This is within the available differential but exceeds the recommended 50% maximum.

LEVER ACTING

For main burner and pilot load application requiring positive dead-end lockup (see Definitions page 63).

Example: To select a 325 series regulator:

- Known: Single 145,000 Btu/h burner; pipe size 1/2"; inlet pressure 2 psi; outlet pressure 7" w.c.
- Solution: The 325-3's pressure drop at a flow rate of 145,000 Btu/h is 7" w.c., well below the available differential of 1 3/4 psi. However, the Maximum Individual Load for th 325-3 is only 100,000 Btu/h. The 325-5 (1/2") is the correct regulator to use with this application.

BALANCED VALVE

For main burner and pilot load application requiring a lockup type regulator or zero governor usage (see Definitions page 63).

Example: To select a 210 or R/RS series regulator:

- Known: Desired flow rate 6,000,000 Btu/h; pipe size 1 1/2"; inlet pressure 1 psi; outlet pressure 9" w.c.
- Solution: The 210E (1 1/2") has a maximum capacity of 10,000,000 Btu/h. The 210D (1 1/2") has a capacity of 6,000,000 Btu/h. Therefore, the 210E (1 1/2") will give you the desired outlet pressure of 9" w.c. and is the correct regulator to use for the application.



MAXITROL

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