

Maxitrol - Gas Pressure Regulators

Davies is Your #1 Source For Maxitrol Gas Pressure Regulators

Domestic, Commercial And Industrial Applications

MAXITROL®



325 Series



RV Series

*Call Davies
For Details
Today!*



Gas Pressure Regulator
Accessories

Maxitrol - Gas Pressure Regulators

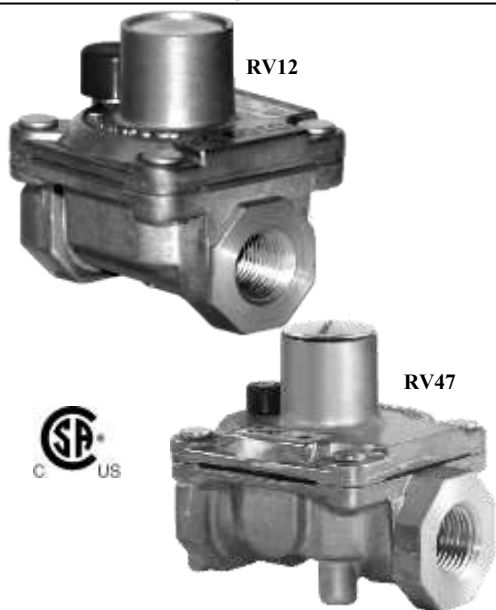
Gas Pressure Regulators - Lever Acting Design



- Main burner and pilot load applications requiring dead-end lockup
- 325 Series pounds to inches regulators are for use on residential, commercial, and industrial applications
- Features a high leverage valve linkage assembly to deliver positive dead-end lock-up. The regulators are capable of precise control from full flow down to pilot flow.
- **Maximum Inlet Pressure:** 10 psi
- **Outlet Pressure:** All models come with a 4" to 12" w.c. spring installed. Other springs available.

Pressure Drop in Inches w.c.				CSA Max CFH	Pipe Size	Part Number
0.25	0.5	0.75	1.0			
Capacities Expressed in CFH @ 0.64 sp gr gas						
145	204	250	289	150	3/8"	325-3-3/8
					1/2"	325-3-1/2
400	550	670	770	325	1/2"	325-5-1/2
					3/4"	325-5-3/4
					1"	325-5-1

Gas Pressure Regulators - Rubber Seat Poppet Design



- Main burner and pilot load applications
- Typical applications include residential and commercial cooking appliances, barbecues, hearth products, and pilot lines
- **Maximum Inlet Pressure:** 1/2 psi
- **Outlet Pressure:** RV12, RV20 & RV47 models come with a 2.8" to 5.2" w.c. spring installed. RV48 models come with a 3" to 6" w.c. spring installed. Other springs available.

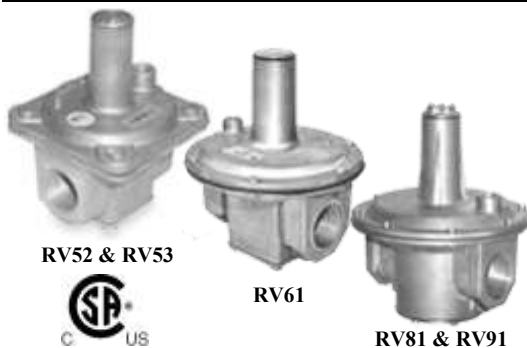
Range of Regulation		Individual Load		Pressure Drop @ 0.3" w.c.	Pipe Size	Part Number
Main Burner	Main Burner & Pilot	Fixed Orifice	Ball Check Device			
Capacities Expressed in Btu/h @ 0.64 sp gr gas						
30,000	25,000	20,000	-	14,800	1/8"	RV12-1/8
65,000	50,000	30,000	-	30,000	1/4"	RV20L1/4
125,000	90,000	40,000	125,000	55,000	3/8"	RV47L3/8
230,000	230,000	40,000	160,000	130,000	1/2"	RV481/2
250,000	250,000	40,000	160,000	150,000	3/4"	RV483/4

Contact Davies Experts For Proper Application & Sizing

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Maxitrol - Gas Pressure Regulators

Gas Pressure Regulators - Straight Thru Flow Design



- Main burner applications only not requiring a lockup type regulator
- Typical applications include residential, commercial, and industrial gas fired appliances and equipment used on low or medium pressure gas supplies
- Straight-thru-flow design regulators are non-lockup type regulators for high capacities at low inlet pressures
- **Maximum Inlet Pressure:** 1/2 psi
- **Outlet Pressure:** All models come with a 3" to 6" w.c. CSA Certified spring installed. Other springs available.

Pressure Drop in Inches w.c.													CSA Max CFH	Pipe Size	Part Number
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	2.0	3.0	4.0			
Capacities Expressed in CFH @ 0.64 sp gr gas															
151	214	262	302	338	370	400	427	453	478	676	828	956	450	1/2"	RV521/2
														3/4"	RV523/4
217	306	375	433	484	530	573	612	650	684	968	1185	1369	690	3/4"	RV533/4
														1"	RV53-1
379	536	675	759	848	929	1004	1073	1138	1200	1742	2134	2464	900	1"	RV61-1
														1 1/4"	RV6111/4
780	1102	1350	1559	1743	1909	2062	2204	2339	2465	3485	4269	4929	2500	1 1/4"	RV8111/4
														1 1/2"	RV8111/2
1212	1714	2100	2424	2711	2969	3208	3429	3637	3834	5422	6640	7668	3275	2"	RV91-2
														2 1/2"	RV9121/2
2742	3878	4750	5485	6132	6718	7256	7757	8227	8572	12134	14862	17161	7500	2 1/2"	RV11121/2

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Maxitrol - Gas Pressure Regulators

Gas Pressure Regulator Accessories



12A06



12A39



PF10



R Series Spring

Description	Size	Part Number
Vent Limiting Orifice	-	12A06
Vent Limiting Device	-	12A39
Pressure Tap Connector (eliminates need for special barb fitting)	-	PF10
Spring - White, 7 to 11" w.c. (for 325-5)	3/4" x 4"	R325E10-711A
Spring - Red, 10 to 22" w.c. (for 325-5)	3/4" x 3 9/16"	R325E10-1022A
Spring - Blue, 5 to 12" w.c. (for RV48)	9/16" x 1 3/16"	R4810-512
Spring - 5 to 12" WC, Blue (for RV52, R500 & R500S)	9/16" x 2 15/16"	R5210-512
Spring - Blue, 5 to 12" w.c. (for RV53, R60 & R600S)	5/8" x 3 7/16"	R5310-512
Spring - Blue, 5 to 12" w.c. (for RV61)	3/4" x 3 9/16"	R6110-512
Spring - Green, 5 to 15" w.c. (for RV111 & 210G)	1 1/2" x 7 1/16"	R11110515

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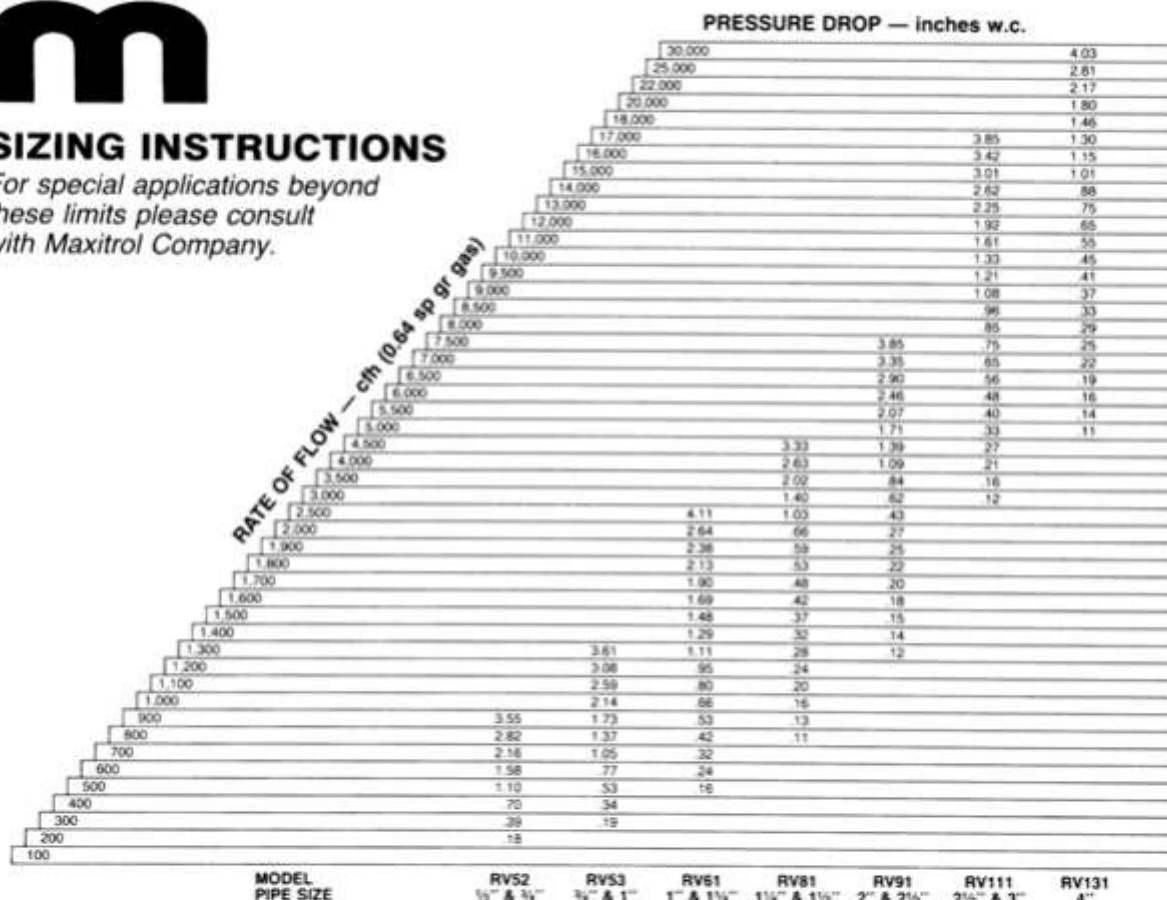
Maxitrol - Gas Pressure Regulators

Sizing Instructions



SIZING INSTRUCTIONS

For special applications beyond these limits please consult with Maxitrol Company.



In order to select the proper size regulator, one must know the available inlet pressure, desired outlet pressure, and required maximum flow rate. 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.

Differential Pressure - This is simply the difference between inlet pressure to the regulator and outlet pressure from the regulator. To obtain differential pressure, just subtract the desired outlet pressure from available inlet pressure.

Pressure Drop - This is the natural loss of pressure which occurs in the regulator (or in valves and piping) due to friction which impedes fluid motion, and without regard to artificial losses deliberately created by diaphragm action.

To correctly size a Straight-Thru-Flow regulator for any selected flow rate, it is recommended that the differential pressure across the regulator be at least twice the regulator pressure drop as charted above.

Example No. 1 - To select regulator of ample capacity to handle flow.

Known: Pipe size 2 1/2", flow rate 7,500 cfh, inlet pressure 9" w.c.; outlet pressure 5" w.c.

Solution:

- Determine differential pressure available.

Inlet pressure	9" w.c.
Subtract outlet pressure	- 5" w.c.
Available differential pressure:	4" w.c.
- Determine maximum recommended pressure drop (one half of available differential pressure) 1/2 of 4" = 2".
- Follow 7,500 cfh flow line to column for smallest 2 1/2" regulator having less than 2" pressure drop at 7,500.
- RV91 has a pressure drop of 3.85" and should not be used because allowable pressure drop exceeds recommended 2" limit. RV111 has a pressure drop of .75" and is within limit established and is therefore the correct selection.

Example No. 2 - To determine maximum recommended operating outlet pressure.

Known: Pipe size 4", flow rate 22,000 cfh, inlet pressure 10" w.c.

Solution:

- Read across chart from 22,000 cfh to vertical bar representing 4" regulator, RV131.
- Note pressure drop is 2.17".
- Multiply by two to obtain recommended differential pressure (4.3").
- Subtract 4.3" differential pressure from 10" inlet pressure to obtain maximum recommended outlet pressure setting of 5.7" w.c.

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Maxitrol - Selectra Series 14

Make Up Air Applications - Direct Fired (System 14)

Valves	Amplifier or Amplifier-Selector	Selection Method	Remote Selector Model (if applicable)	Sensor	Options	
					Override Stat	Inlet Air Sensor
M411, M511, M511-3/4, M611, M611-3/4, MR212D, E, G, or J	A1014R (AD1014-5590) or AD1014L1-5590	Single Remote	TD114, TD114B	TS114, TS114B / MT1 or 2	T115	TS10765
		Dual Remote	TD114HD	TS114, TS114B / MT1 or 2	-	-
			TD214	TS214 / MT1 or 2	-	-
	AD1214	Single Integral	-	TS114, TS114B / MT1 or 2	-	TS10765
		Dual Integral	-	TS214 / MT1 or 2	-	-

Note: Selector and Sensor must have the same temperature range to be compatible.



Amplifiers:
 A1014 (use with all temperature ranges)
 A1014L1 (all ranges - adjustable low fire start duration)
Amplifier-Selectors: (with integral temperature dial)
 AD1014-5590 (55° to 90° F)
 AD1014L1-5590 (55° to 90° F - adjustable low fire start duration)
Dual Temperature Amplifier-Selectors:
 AD1214... (integral dual selector - any comb. of 2 standard ranges avail.)
 Example - AD1214BC (120° to 170° F and 160° to 210° F, use w/TS214BC)
 Example - AD1214AD (80° to 130° F and 200° to 250° F, use w/TS214AD)
Remote Temperature Selectors:
 TD114 (55° to 90° F w/override 0° to 40° over set point)
 TD114A (80° to 130° F)
 TD114B (120° to 170° F)
 TD114C (160° to 210° F)
 TD114D (200° to 250° F)
 TD114E (100° to 250° F)
 TD114F (40° to 80° F w/ 90° to 130° F override)
 TD114G (90° to 140° F)
 TD114-1 (55° to 90° F w/120° to 170° F override) * use w/TS114
 TD114-2 (55° to 90° F w/two outputs)
 TD114G-2 (90° to 140° F w/two outputs)
NOTE: Remote Selector and Discharge Temperature Sensor must have same temperature range to be compatible.
Optional: ETD-1 enclosure, EFP-1 cover plate only - no enclosure
Discharge Air Temperature Sensors: use with Mixing Tube
 TS114 (55° to 90° F)
 TS114A (80° to 130° F)
 TS114B (120° to 170° F)
 TS114C (160° to 210° F)
 TS114D (200° to 250° F)
 TS114E (100° to 250° F)
 TS114F (40° to 80° F)
 TS114G (90° to 140° F)
 TS214... (dual sensor - any combination of 2 standard ranges available)
 Example - TS214G (55° to 90° F and 90° to 140° F, use w/TD114 & TD114G, or TD214G [selector w/switch], or AD1214G)
 Example - TS214AD (80° to 130° F and 200° to 250° F, use w/TD114A & TD114D, or TD214AD [selector w/ switch], or AD1214AD)

Mixing Tubes: use with Sensors
 MT1-9 or 2-9 (9" length)
 MT1-12 or 2-12 (12" length)
 MT1-23 or 2-23 (23" length)
 MT1-28 or 2-28 (28" length)
 MT1-57 (57" length)
Valves:
 M411 (3/8" & 1/2" pipe size)
 M511 (1/2" & 3/4" pipe size)
 M611 (3/4" & 1" pipe size)
 MR212D (1", 1-1/4", 1-1/2" pipe size)
 MR212E (1-1/2" & 2" pipe size)
 MR212G (2-1/2" & 3" pipe size)
 MR212J (4" flanged)
 MR212-2D, E, G, J (same as above except used for 2-speed blower or dual fuel operator)
NOTE: M (Modulator) valve requires a pressure regulator for high fire setting. MR (Modulator-Regulator) valve requires no pressure regulator up to 5 psi.
 M611, MR212D, E & G with Series 14 - CSA listed to certify compliance with nationally published safety, construction and performance standards.
 M611, MR212D, E & G - UL recognized for compliance to nationally published safety, construction and performance standards.
Optional:
Dual Temperature Selector:
 DOOR HEATERS -
 TD114HD use w/TS114 (door closed 55° to 90° F/open 90° to 140° F)
 PAINT SPRAY BOOTHS OR OTHER DUAL APPLICATIONS-
 TD214... (dual selector w/switch - any comb. of 2 standard ranges avail.)
 Example - TD214G (55° to 90° F [spray] and 90° to 140° F [dry], use w/TS214G)
 Example - TD214AD (80° to 130° F and 200° to 250° F, use w/TS214AD)
 TD214...X (same as TD214... less enclosure)
Inlet Air Temperature Sensors: use with Mixing Tube
 TS10765A (8:1 ratio) - supersedes TS1007A
 TS10765B (5:1 ratio) - supersedes TS1007B
 TS10765C (3.5:1 ratio) - supersedes TS1007C
Override Stat: (use only with TD114, F, -1)
 T115 (40° to 90° F)



Maxitrol - Selectra Series 44

Space Heating Applications - Direct Fired (System 44)

Valves	Amplifier	Selectrastat	Discharge Temp Sensor	Options	
				Space Temperature Selector	Space
M411, M511, M611, M611-1, MR212D, E, G, or J (see pg. 4)	A1044 or A1044L1	T244	TS144 / MT1 or 2	TD244	TS244
				Note: Selector and sensor must have same temperature range to be compatible	



T244
Selectrastat



TS244
Space Temp. Sensor



TD244
Space Temp. Selector



A1044
Amplifier



A1044L
Amplifier



MT2/TS144/MT1
Discharge Temp. Sensor/Mixing Tube

Amplifiers:

A1044 (min. 40° to 80° F/ max. 80° to 140° F)
 A1044C (min. 20° to 60° F/ max. 80° to 140° F)
 A1044D (min. 20° to 60° F/ max. 35° to 75° F)
 A1044E (min. 20° to 60° F/ max. 60° to 120° F)
 A1044L1, A1044CL1, A1044DL1, A1044EL1 - above ranges
 with adjustable low fire start duration

NOTE: Amplifier and Discharge Temperature Sensor must have same temperature range to be compatible.

Selectrastat (Senses & Selects):

T244 (55° to 90° F)
 T244A (40° to 80° F)

or optional pair to replace Selectrastat:

Space Temperature Selector:

TD244 (wall mount 55° to 90° F)
 TD244A (wall mount 40° to 80° F)
 TD244P (panel mount 55° to 90° F)
 TD244AP (panel mount 40° to 80° F)

Space Temperature Sensor:

TS244 (55° to 90° F)
 TS244A (40° to 80° F)

NOTE: Space Temperature Selector and Space Temperature Sensor must have same temperature range to be compatible.





Discharge Temperature Sensors: use with Mixing Tube

TS144 (min. 40° to 80° F/max. 80° to 140° F)
 TS144C (min. 20° to 60° F/max. 80° to 140° F)
 TS144D (min. 20° to 60° F/max. 35° to 75° F)
 TS144E (min. 20° to 60° F/max. 60° to 120° F)

Mixing Tubes: used with Sensors

MT1-9 or MT2-9 (9" length)
 MT1-12 or MT2-12 (12" length)
 MT1-23 or MT2-23 (23" length)
 MT1-28 or MT2-28 (28" length)
 MT1-57 (57" length)


Valves:

M411 (3/8" & 1/2" pipe size)
 M511 (1/2" & 3/4" pipe size)
 M611 (3/4" & 1" pipe size) 
 MR212D (1", 1 1/4", 1 1/2" pipe size) 
 MR212E (1 1/2" & 2" pipe size) 
 MR212G (2 1/2" & 3" pipe size) 
 MR212J (4" flanged)

MR212D-2, E-2, G-2 & J-2 (same pipe sizes as MR212D-J
 except used for 2-speed blower or dual fuel operation)

NOTE: M (Modulator) valve requires an upstream pressure regulator for low fire & high fire settings.

MR (Modulator/Regulator) valve requires no upstream pressure regulator up to 5 psi inlet.

 M611, MR212D, E & G - UL recognized for compliance to nationally published safety, construction and performance standards.

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Maxitrol - Selectra Series 21/31

Make Up Air Applications - Indirect Fired (System 21/31)

Valves	Amplifier	Selection Method	Remote Selector Model (if applicable)	Discharge Temp Sensor	Options	
					Override Stat	Inlet Air Sensor
MR410, MR510 & MR610 (see pg. 4)	A1010U (A1010A, B) or A1011A, B	Remote	TD121	TS121 / MT1 or 2	T115	TS10765
	AD1010U (A1010E), F, or A1011E, F	Integral	-	TS121 / MT1 or 2	T115	TS10765
	Note: Selector and sensor must have same temperature range to be compatible					

A1010
AmplifierA1010E
AmplifierA1011
AmplifierTD121
Remote Temp. SelectorT115
Override StatTS10765A
Inlet Air SensorTS121
Discharge Temp. SensorMT2/MT1
Mixing Tube**Series 21 Amplifiers (single furnace):**

A1010A - use with TD121
 A1010B - high fire ignition - use with TD121
 A1010E - integral temp. selector
 A1010F - integral temp. selector and high fire ignition

Series 31 Amplifiers (multiple furnace):

A1011A - use with TD121
 A1011B - high fire ignition - use with TD121
 A1011E - integral temp. selector
 A1011F - integral temp. selector and high fire ignition

Modulator-Regulator Valves:

MR410 (3/8" & 1/2" pipe size) Ⓢ
 MR510 (1/2" & 3/4" pipe size) Ⓢ
 MR610 (3/4" & 1" pipe size) Ⓢ



H-1 models for higher outlet pressure
 (such as for LP applications) Ⓢ

Ⓢ CSA certified to Z21.18 and CAN 1-6.3-M82

Remote Temperature Selectors:

TD121 (55° to 90° F)
 TD121A (80° to 130° F)
 TD121B (120 to 170° F)
 TD121C (160° to 210° F)
 TD121D (200° to 250° F)
 TD121E (100° to 250° F)
 TD121F (40° to 80° F)

NOTE: Remote Selector and Discharge Temperature Sensor must have same temperature range to be compatible.

Optional: ETD-1 enclosure,

EFP-1 cover plate only - no enclosure

Discharge Air Temperature Sensors: use with Mixing Tube

TS121 (55° to 90° F)
 TS121A (80° to 130° F)
 TS121B (120° to 170° F)
 TS121C (160° to 210° F)
 TS121D (200° to 250° F)
 TS121E (100° to 250° F)
 TS121F (40° to 80° F)

Mixing Tubes: use with Sensors

MT1-9 or 2-9 (9" length)
 MT1-12 or 2-12 (12" length)
 MT1-23 or 2-23 (23" length)
 MT1-28 or 2-28 (28" length)
 MT1-57 (57" length)

Optional:**Inlet Air Temperature Sensors: use with Mixing Tube**

TS10765A (8:1 ratio) - *supersedes TS1007A*
 TS10765B (5:1 ratio) - *supersedes TS1007B*
 TS10765C (3.5:1 ratio) - *supersedes TS1007C*

Override Stat: (use only with TD121)

T115 (40° to 90° F)

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Maxitrol - Selectra Series 20/30

Space Heating Applications - Indirect Fired (System 20/30)

Valves	Amplifier	Selectrastat	Options	
			Space Temperature Selector	Space Temperature Sensor
MR410, MR510 & MR610 (see pg. 4)	A1010U(A1010A, B) or A1011A, B	T120	TD120	TS120



A1010
Amplifier



A1011
Amplifier



T120
Selectrastat



TD120
Space Temp. Selector



TS120
Space Temp. Sensor

Series 20 Amplifiers:
A1010A - single furnace
A1010B - w/ high fire ignition

Series 30 Amplifiers:
A1011A - multiple furnace
A1011B - w/ high fire ignition

Modulator-Regulator Valves:
MR410 (3/8" & 1/2" pipe size) e
MR510 (1/2" & 3/4" pipe size) e
MR610 (3/4" & 1" pipe size) e

H-1 models for higher outlet pressure
(such as for LP applications) e

e CSA certified to Z21.18 and CAN 1-6.3-MB2



Selectrastat: selector and integral sensing
T120 - (60° to 85° F) - *supersedes T107A-1*

or optional pair to replace Selectrastat:

Space Temperature Selector: selection only
TD120 (60° to 85° F) - *supersedes TD107A*

Optional: ETD-1 enclosure,
EFP-1 cover plate only - no enclosure

Space Temperature Sensor: remote sensing
TS120 - *supersedes TS2003A*

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Maxitrol - Selectra M/MR Valves

M/MR Series Application Table

Model Number	Max. Current Draw (amps)	Application	Function	CSA Tested* Inlet Pressure	Inlet Pressure Operating Limits	Upstream Pressure Regulator Required	Maximum Emergency Exposure	Output Control Means Standard Factory Setting (if applicable)	System Used With
M411 M511 M611	0.4 0.5 0.6	Direct Fired (Negative Pressure) Burners	Increase in voltage corresponds to increase in outlet pressure	1/2 psi (3.4 kPa)	Upstream pressure regulator setting	Yes	2.5 psi (17 kPa)	Low Fire: adjustable orifice bypass High Fire: upstream pressure regulator setting less pressure drop NOTE: 7" w.c. (1.7 kPa) max outlet pressure	Series 14, 24, 44, 94, SC11, DFM
M420 M420H M520 M520H M620 M620H	0.4 0.7 0.5 0.85 0.6 1.0	Atmospheric Burners H Models for higher outlet pressures (such as LP applications)	Increase in voltage corresponds to increase in outlet pressure	1/2 psi (3.4 kPa)	Upstream pressure regulator setting	Yes	2.5 psi (17 kPa)	Low Fire: adjustable orifice bypass High Fire: upstream pressure regulator setting less pressure drop NOTE: 7" w.c. (1.7 kPa) max outlet pressure NOTE: H models: 11" w.c. (2.7 kPa) max outlet pressure	Series 3, Series 94, SC11
M451 M551 M651	0.4 0.5 0.6	Atmospheric Burners - where higher outlet pressures are needed	Increase in voltage corresponds to increase in outlet pressure	1/2 psi (3.4 kPa)	Upstream pressure regulator setting	Yes	2.5 psi (17 kPa)	Low Fire: spring adjustment Std. Model: 1.2" - 2.5" w.c. (0.30-0.62 kPa) "-1" models: 2" - 4.5" w.c (0.50-1.1 kPa) High Fire: upstream pressure regulator setting less pressure drop	Series 94, SC11
MR251D MR251E MR251G	0.4	Atmospheric Burners - where higher outlet pressures are needed	Increase in voltage corresponds to increase in outlet pressure	--	5 psi (34 kPa)	No	12.5 psi (86 kPa)	Low Fire: spring adjustment 2" - 4.5" w.c. (0.50-1.1 kPa) High Fire: maximum 7" w.c. (1.7 kPa) above minimum setting	Series 94, SC11
MR212D MR212E MR212G MR212J	0.4	Direct Fired (Negative Pressure) Burners	Increase in voltage corresponds to increase in outlet pressure	CSA Rated** Inlet Pressure 5 psi (34 kPa)	5 psi (34 kPa)	No	12.5 psi (86 kPa)	Low fire: adjustable orifice bypass High fire: spring adjustment High Fire Setting: Std. model: 2 - 5" w.c. (0.50-1.25 kPa) "-2" model: 2" - 5" w.c. (0.50-1.25 kPa) reduced to 0-3" w.c. (0-0.75 kPa)	Series 14, 24, 44, 94, SC11, DFM
MR410 MR410H-1 MR510 MR510H-1 MR610 MR610H-1	0.4 0.7 0.5 0.85 0.6 1.0	Atmospheric Burners H-1 models for higher outlet pressures (such as for LP applications)	Decrease in voltage corresponds to increase in outlet pressure	1/2 psi (3.4 kPa)	1 psi (7 kPa)	No	2.5 psi (17 kPa)	Low fire: spring adjustment High fire: spring adjustment Std. model: 3" - 5" w.c. (0.75-1.25 kPa) max-4" w.c. (1.0 kPa) "-1" model: min-1.5" w.c. (0.38 kPa) max-4" w.c. (1.0 kPa) "-1" model: min outlet pressure = 1.75" w.c. (0.44 kPa) max outlet pressure = 11" w.c. (2.7 kPa) NOTE: "H-1" models: 7.5" to 12" w.c. (1.87 to 3 kPa) max outlet pressure	Series 20, 21, 30, 31

* Where no ANSI standard currently exists, Maxitrol Controls have been CSA tested for use as a component of Maxitrol Selectra® systems
**CSA Rated Inlet Pressures are established by ANSI Z21.18, CSA 6.3, and CSA 6.5 standards where applicable.



Maxitrol - Selectra M/MR Valves

M/MR Series Capacities

Capacity - flow rate expressed in CFH (m³/h) - 0.64 sp gr gas
 Pressure drop expressed in inches w.c. (millibars)

Consult with Maxitrol Company, for flows in excess of those shown below.

Model Number and Pipe Size		100 (2.83)	150 (4.25)	200 (5.66)	250 (7.1)	300 (8.5)	350 (9.9)	400 (11.3)	450 (12.7)	500 (14.2)	600 (17.0)	700 (19.8)	750 (21.2)	Min. Flow
MR410 MR410H-1 M411	3/8X3/8	.33 (.82)	.75 (1.88)											†5-90 (.14-2.5)
	M420† M420H M451	1/2X1/2	.27 (.67)	.61 (1.53)										
MR510 MR510H-1 M511†	1/2X1/2		.17 (.42)	.30 (.75)	.47 (1.18)	.67 (1.68)	.92 (2.30)							†5-125 (1.4-3.5)
	M520† M520H M551	3/4X3/4	.12 (.30)	.21 (.52)	.32 (.80)	.47 (1.18)	.64 (1.60)	.83 (2.07)						
MR610 MR610H-1	3/4X3/4				.14 (.35)	.20 (.50)	.27 (.67)	.36 (.90)	.45 (1.13)	.56 (1.40)	.81 (2.03)			†10-330 (.28-9.3)
	M620† M620H M651	1X1			.12 (.30)	.16 (.40)	.22 (.55)	.29 (.72)	.37 (.92)	.45 (1.13)	.66 (1.65)	.90 (2.25)	1.00 (2.50)	

† or ‡ Models to which min. flow applies. (Minimum flow maximum calculated at ΔP = 3.5" w.c. [single by-pass])

Model Number and Pipe Size		100 (2.83)	150 (4.25)	200 (5.66)	300 (8.5)	400 (11.3)	500 (14.2)	600 (17.0)	700 (19.8)	800 (22.7)	900 (25.5)	1000 (28.3)	CGA Listed	Min. Flow
M611*	3/4x3/4	.02 (.05)	.06 (.15)	.09 (.23)	.20 (.50)	.36 (.90)	.56 (1.40)	.81 (2.03)	1.10 (2.75)	1.45 (3.63)	1.83 (4.58)		1000	10-330 (.28-9.3)
	1x1	.02 (.05)	.05 (.12)	.07 (.18)	.16 (.40)	.29 (.72)	.46 (1.15)	.66 (1.65)	.90 (2.25)	1.18 (2.95)	1.50 (3.75)	1.85 (4.63)		

Model Number and Pipe Size		1000 (28.3)	1500 (42.5)	2000 (56.5)	2500 (70.8)	3000 (85.0)	3500 (99.0)	5000 (142)	6000 (170)	7000 (198)	10000 (283)	11000 (311)	CGA Listed	Min. Flow Min. Flow Applies to MR212s only
MR212D* MR251D	1x1	1.9 (4.75)	2.9 (7.25)	4.9 (12.25)	6.2** (15.50)								2250	25-300 (.71-8.5)
	1½x1½	1.7 (4.25)	2.3 (5.75)	3.1 (7.75)	4.8 (12.00)	5.9** (14.75)							2750	
	1½x1½	1.7 (4.25)	2.2 (5.50)	2.9 (7.25)	3.9 (9.75)	5.4 (13.50)							3000	
MR212E* MR251E	1½x1½			1.9 (4.75)	2.4 (6.00)	2.9 (7.25)	3.5 (8.75)	6.0** (15.00)					4750	25-300 (.71-8.5)
	2x2			1.9 (4.75)	2.1 (5.25)	2.4 (6.00)	2.7 (6.75)	5.5 (13.75)	6.0** (15.00)				5250	
MR212G* MR251G	2½x2½						1.9 (4.75)	2.2 (5.50)	2.6 (6.50)	3.0 (7.50)	6.1 (15.25)		10000	50-450 (1.4-12.7)
	3x3							2.1 (5.25)	2.3 (5.75)	2.6 (6.50)	4.6 (11.50)	5.6 (14.00)	11000	

*U.L. recognized

**Pressure Drop figures derived from CGA Maximum Listed Capacities in far right column (not flow at column top).

Model Number and Pipe Size		6000 (170)	8000 (227)	10000 (283)	12000 (340)	14000 (397)	16000 (453)	18000 (510)	20000 (566)	22000 (623)	24000 (680)	27000 (765)	30000 (850)	Min. Flow
MR212J	4x4	1.9 (4.75)	2.1 (5.25)	2.4 (6.00)	2.7 (6.75)	3.1 (7.75)	3.6 (9.00)	4.5 (11.25)	5.4 (13.50)	6.6 (16.50)	7.8 (19.50)	9.9 (24.75)	12.4 (31.00)	1-1000 (.03-28.3)

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