

# MAXITROL

## Capacity Charts for Gas Pressure Regulators

The capacity of any regulator is not an absolute value, but will vary with the application depending on the prevailing differential. We hope the following charts will help you in your selection of a properly sized regulator.

Maxitrol gas appliances regulators should be installed and operated in accordance with our "Safety Warning Bulletin" — no untrained person should attempt to install, maintain, or service a gas pressure regulator.

**POPET MODELS — capacities expressed in Btu/h. — 0.64 sp gr gas**  
**Maxitrol recommended maximum inlet pressure..... 1/2 psi**

Model	Pipe Size	Pressure Drop @ 0.3" w.c.	Range of Regulation		Individual Load	
			Main Burner	M.B. and Pilot	Fixed Orifices	Ball Check Devices
RV12	1/8" x 1/8" 3/16" x 3/16"	14,800 8,800	30,000	25,000 15,000	20,000 15,000	—
RV20	1/4" x 1/4" 3/8" x 3/8"	30,000	65,000	50,000	30,000	—
RV20C	1/4" X 1/4" 3/8" X 3/8"	30,000	75,000	50,000	15,000	—
CV47 RV47	3/8" X 3/8" 1/2" X 1/2"	55,000 60,000	125,000	90,000	40,000	125,000
CV47A & C RV47A & C	3/8" X 3/8" 1/2" x 1/2"	55,000 60,000	125,000	125,000	40,000	125,000
RV48	1/2" X 1/2" 3/4" X 3/4"	130,000 150,000	230,000 250,000	230,000 250,000	40,000	160,000
RV48C	1/2" x 1/2" 3/4" x 3/4"	130,000 150,000	400,000	275,000 Nat 250,000 LP	40,000	160,000

NOTE: Minimum main burner regulation capacity for all models (except "N") is 150 Btu/h

**STRAIGHT-THRU-FLOW — capacities expressed in CFH — 0.64 sp gr gas**  
**Maxitrol recommended maximum inlet pressure: RV52 & 53.....1/2 psi**  
**RV61, 81, 91 & 111..... 1 psi**  
**R131..... 2 psi**

Model Number and Pipe Size		CSA MAX	Pressure Drop (inches w.c.)												
			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
RV52	1/2 x 1/2	450	151	214	262	302	338	370	400	427	453	478	676	828	956
	3/4 x 3/4	450	151	214	262	302	338	370	400	427	453	478	676	828	956
RV53	3/4 x 3/4	710	217	306	375	433	484	530	573	612	650	684	968	1185	1369
	1 x 1	710	217	306	375	433	484	530	573	612	650	684	968	1185	1369
RV61	1 x 1	1100	379	536	675	759	848	929	1004	1073	1138	1200	1742	2134	2464
	1-1/4 x 1-1/4	1100	379	536	675	759	848	929	1004	1073	1138	1200	1742	2134	2464
RV81	1-1/4 x 1-1/4	2500	780	1102	1350	1559	1743	1909	2062	2204	2339	2465	3485	4269	4929
	1-1/2 x 1-1/2	2500	780	1102	1350	1559	1743	1909	2062	2204	2339	2465	3485	4269	4929
RV91	2 x 2	3275	1212	1714	2100	2424	2711	2969	3208	3429	3637	3834	5422	6640	7668
	2-1/2 x 2-1/2	3275	1212	1714	2100	2424	2711	2969	3208	3429	3637	3834	5422	6640	7668
RV111	2-1/2 x 2-1/2	7500	2742	3878	4750	5485	6132	6718	7256	7757	8227	8572	12134	14862	17161
	3 x 3	7500	2742	3878	4750	5485	6132	6718	7256	7757	8227	8572	12134	14862	17161
RV131	4 x 4	—	4734	6695	8200	9468	10586	11596	12525	13390	14202	14971	21172	25930	29942

**325 SERIES — capacities expressed in CFH — 0.64 sp gr gas**

**325 Appliance Regulators**

Maximum inlet pressure.....10 psi (2 or 5 psi CSA)

Model Number and Pipe Size (Inlet & Outlet)	CSA Max. Capacity	CSA Max. Ind. Load	Pressure Drop											
			0.3"	0.5"	1.0"	3.0"	5.0"	7.0"	1/2 psi	3/4 psi	1 psi	1.5 psi	1.75 psi	
325-3	3/8", 1/2"	150	100	30	39	55	95	123	146	205	251	287	355	383
325-5A	1/2", 3/4", 1"	300	250	68	88	125	217	280	331	465	570	658	806	870
325-7	1-1/4" 1-1/2"	900 -	1000 -	142	184	260	450	581	690	972	1191	1375	1685	1820

**325 2 psi Line Regulators**

Maximum inlet pressure.....2 psi (CSA)

Model Number and Pipe Size (Inlet & Outlet)	CSA Max. Capacity	CSA Max. Ind. Load	Pressure Drop											
			1.0"	3.0"	5.0"	7.0"	1/2 psi	3/4 psi	1 psi	1.5 psi	1.75 psi			
325-3L	3/8", 1/2"	250	140	55	95	123	146	205	-	-	-	-	-	-
325-5AL	1/2"	425	300	125	217	280	331	-	-	-	-	-	-	-
	3/4", 1"	550	300	125	217	280	331	465	-	-	-	-	-	-
325-7L	1-1/4", 1-1/2"	1000	900	260	450	581	690	972	-	-	-	-	-	-

**325 5 psi Line Regulators**

Maximum inlet pressure.....5 psi (CSA)

Model Number and Pipe Size (Inlet & Outlet)	CSA Max. Capacity	CSA Max. Ind. Load	Pressure Drop											
			1.0"	3.0"	5.0"	7.0"	1/2 psi	3/4 psi	1 psi	1.5 psi	1.75 psi			
325-3L47	3/8", 1/2"	125	125	50	87	112	132	-	-	-	-	-	-	-
325-3L48	1/2"	200	200	61	106	136	161	-	-	-	-	-	-	-
325-5AL48	1/2"	235	235	120	208	-	-	-	-	-	-	-	-	-
	3/4"	320	320	124	215	277	-	-	-	-	-	-	-	-
325-5AL600	3/4"	425	425	131	227	293	347	-	-	-	-	-	-	-
	1"	465	465	143	248	320	378	-	-	-	-	-	-	-
325-7L210D	1-1/4"	900	900	250	433	559	661	-	-	-	-	-	-	-
	1-1/2"													

- : Non-CSA Certified

**210 SERIES — capacities expressed in CFH — 0.64 sp gr gas**  
**Maxitrol recommended maximum inlet pressure.....10 psi**

Model Number and Pipe Size		Pressure Drop (inches w.c.)										
		0.1	0.3	0.5	1.0	3.0	5.0	7.0	1/2 psi	3/4 psi	1 psi	1.5 psi
210D	1 x 1	—	—	—	900	1600	2000	2400	3300	4100	4750	5800
	1-1/4 x 1-1/4	—	—	—	1100	1900	2500	2900	4100	5000	5850	7150
	1-1/2 x 1-1/2	—	—	—	1200	2100	2700	3200	4500	5500	6350	7750
210E	1-1/2 x 1-1/2	—	1050	1350	1915	3315	4280	5065	7125	8725	10075	12340
	2 x 2	—	1210	1560	2210	3825	4940	5845	8225	10070	11630	14245
210G	2-1/2 x 2-1/2	1410	2450	3160	4470	7740	9995	11825	16635	20375	23525	28810
	3 x 3	1555	2695	3475	4920	8520	11000	13020	18310	22425	25890	31710
210J	4 x 4	2700	4700	6000	8600	15000	19000	23000	32000	40000	45500	55700

**R/RS SERIES — capacities expressed in CFH — 0.64**  
**Maxitrol recommended maximum inlet pressure: R Model.....1 psi**  
**RS Model..... 5 psi**

Model Number and Pipe Size		Pressure Drop (inches w.c.)										
		0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.5	4.0
R400 & R400S	3/8 x 3/8	77	110	134	155	174	212	245	274	—	—	—
	1/2 x 1/2	86	121	148	172	192	235	271	303	—	—	—
R500 & R500S	1/2 x 1/2	163	231	283	327	366	447	516	577	635	685	730
	3/4 x 3/4	196	277	340	392	438	537	620	693	760	820	876
R600 & R600S	3/4 x 3/4	298	421	516	595	666	816	942	1054	1150	1245	1335
	1 x 1	330	468	572	661	739	906	1046	1169	1280	1380	1480

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