



NGR04

Product Summary

The NMT® NGR04 series spring-loaded gas regulators are designed for consistent pressure control across various residential, industrial, and commercial environments. Meeting ANSI Z21.80 standards for Class I and II, vent limiting, and OPD applications, the NGR04 is suitable for various non-corrosive dry gas applications.



Features

- Internal relief - OPD.
- Vent limiting option.
- Outlet pressure up to 3 psig.
- Corrosion-resistant exterior.
- Conforms to ANSI B109.4.



Capacity Tables

NOTE: Flow capacities in SCFH of 0.60 specific gravity gas @ 60°F and 14.7 psia. Individual results may vary.

7" wc Outlet Pressure - BTU x1000 - 1" Pressure Drop

Inlet Pressure	O R I F I C E											
	1/4"		3/8"		1/2"		5/8"		3/4"		7/8"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
10" wc	150	236	400	630	710	1118	780	1229	1100	1733	1310	2063
14" wc	300	473	600	945	800	1260	820	1292	1450	2284	1650	2599
1 psi	377	594	740	1166	1013	1595	1039	1636	2065	3252	2078	3273
2 psi	623	981	1140	1796	1636	2577	1818	2863	3740	5891	3896	6136
3 psi	805	1268	1299	2046	2143	3375	2961	4664	4948	7793	5610	8836
5 psi	935	1473	2104	3314	4403	6935	5000	7875	6935	10923	8571	13499
8 psi	1325	2087	3000	4725	5844	9204	6429	10126	9195	14482	10987	17305
10 psi	1558	2454	3299	5196	6390	10064	7052	11107	10286	16200	11065	17427
15 psi	2026	3191	3896	6136	8104	12764	8571	13499				
25 psi	2610	4111	4156	6546	11610	18286						
35 psi	3195	5032	4909	7732								
50 psi	4286	6750	5961	9389								
75 psi	6234	9819										
100 psi	7247	11414										
125 psi	9399	14803										

Gray S04B/2" VB to obtain values. NG = 0.63 S.G. gas = 1 CF/1000 BTU LP = 1.53 S.G. gas = 1 CF/2500 BTU

NOTE: Relief & lever disconnect curves available upon request. Results in chart may vary for every application.

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14" wc Outlet Pressure - BTU x1000 - 2" Pressure Drop

Inlet Pressure	O R I F I C E											
	1/4"		3/8"		1/2"		5/8"		3/4"		7/8"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
1 psi	370	583	690	1087	780	1229	820	1292	1120	1764	2340	3686
2 psi	603	950	1090	1717	1150	1811	1280	2016	1860	2930	2420	3812
3 psi	780	1229	1560	2457	2100	3308	2340	3686	2960	4662	4130	6505
5 psi	1170	1843	2490	3922	2540	4001	3150	4961	5060	7970	5450	8584
8 psi	1400	2205	3300	5198	4200	6615	4350	6851	7950	12521	9970	15703
10 psi	1630	2567	3500	5513	5760	9072	6450	10159	10120	15939	13170	20743
15 psi	2030	3197	4900	7718	8330	13120	9580	15089				
25 psi	2730	4300	6380	10049	11680	18396						
35 psi	3500	5513	7950	12521								
50 psi	4600	7245	10360	16317								
75 psi	5900	9293										
100 psi	6880	10836										
125 psi	9579	15087										
Silver S04E/2" VB to obtain values. NG = 0.63 S.G. gas = 1 CF/1000 BTU LP = 1.53 S.G. gas = 1 CF/2500 BTU												

NOTE: Relief & lever disconnect curves available upon request. Results in chart may vary for every application.

1 psig Outlet Pressure - BTU x1000 - 20% Pressure Drop

Inlet Pressure	O R I F I C E											
	1/4"		3/8"		1/2"		5/8"		3/4"		7/8"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
2 psi	468	737	545	858	623	981	701	1104	1247	1964	1870	2945
3 psi	623	981	779	1227	1091	1718	1169	1841	2182	3437	2727	4295
5 psi	935	1473	1091	1718	1948	3068	1955	3079	3506	5522	4052	6382
8 psi	1247	1964	1558	2454	2883	4541	3117	4909	5143	8100	6857	10800
10 psi	1403	2210	2026	3191	3896	6136	3974	6259	6701	10554	8727	13745
15 psi	1870	2945	2416	3805	6390	10064	7169	11291				
25 psi	2649	4172	6234	9819	9896	15586						
35 psi	3117	4909	7870	12395								
50 psi	4442	6996	9800	15435								
75 psi	6449	10157										
100 psi	8374	13189										
125 psi	10367	16328										
Red-Gray S04F/2" VB to obtain values. NG = 0.63 S.G. gas = 1 CF/1000 BTU LP = 1.53 S.G. gas = 1 CF/2500 BTU												

NOTE: Relief & lever disconnect curves available upon request. Results in chart may vary for every application.



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2 psig Outlet Pressure - BTU x1000 - 20% Pressure Drop

Inlet Pressure	O R I F I C E											
	1/4"		3/8"		1/2"		5/8"		3/4"		7/8"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
3 psi	623	981	1013	1595	1403	2210	1714	2700	2104	3314	2260	3560
5 psi	857	1350	1870	2945	2104	3314	2805	4418	3429	5401	3974	6259
8 psi	1169	1841	2494	3928	3584	5645	4753	7486	5900	9293	5922	9327
10 psi	1403	2210	3506	5522	4519	7117	5688	8959	6234	9819	7325	11537
15 psi	1792	2822	4442	6996	6545	10308	8104	12764				
25 psi	2649	4172	6312	9941	9351	14728						
35 psi	3351	5278	7792	12272								
50 psi	4442	6996	9740	15341								
75 psi	6548	10313										
100 psi	8517	13414										
125 psi	10538	16597										
White S0204E/2" VB to obtain values. NG = 0.63 S.G. gas = 1 CF/1000 BTU LP = 1.53 S.G. gas = 1 CF/2500 BTU												

NOTE: Relief & lever disconnect curves available upon request. Results in chart may vary for every application.

Specifications

- Pipe sizes. 1/4" to 3" FL.
- Gas Types. Natural gas, LPG, other non-corrosive dry gases.
- Maximum Inlet Pressure 10 to 125 psig per orifice.
- Outlet Pressure 3" wc to 3 psig.
- Maximum Emergency Inlet Pressure 175 psig.
- Operating Temperature. -40°F to 140°F.
- Materials:
- Housing Epoxy-coated aluminum.
 - Valve Body. Cast iron.
 - Diaphragm/Valve Seat. Buna N.
 - Orifice. High-strength brass.

Spring Chart

Color	Outlet Range	P/N
Brown	3" wc - 7" wc	S04A
Gray	4" wc - 10" wc	S04B
Black	9" wc - 14" wc	S04C
Blue	9" wc - 15" wc	S04D
Silver	12" wc - 20" wc	SO4E
Red/Gray (HP)	13" wc - 28" wc	S04F
Yellow (HP)	1 psig - 2 psig	S04G
Red (HP)	1 psig - 2.5 psig	S04H
White (HP)	1 psig - 3 psig	S0204E

Gas Type

Gas	Specific Gravity	Correction Factor (VF)
Natural Gas	0.60	1.00
Propane	1.53	0.63
Air	1.00	0.77
Propane-air-mix	1.20	0.71
Nitrogen	0.97	0.79
Butane	2.01	0.55
Carbon dioxide (dry)	1.52	0.63
Carbon monoxide (dry)	0.97	0.79



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Orifice Max Pressure

Size	Max Inlet Pressure	P/N
¼"	125 psig	F0406A
⅜"	50 psig	F0406B
½"	25 psig	F0406C
⅝"	15 psig	F0406D
¾"	10 psig	F0406E
⅞"	10 psig	F0406F

NGR04 Dimensions

Model	Pipe Size	Vent (NPT)	Wt. (lb)
NGR04	1 ¼", 1 ½", 2", 2½	1"	10.75
	2" FL		21.55
	3" FL		28.80
All flanges 10" face to face			

