



NGR02

Product Summary

The NGR02 series spring-loaded gas regulators ensure consistent pressure control for residential, industrial, and commercial uses. Meeting ANSI Z21.80 standards for Class I and II, vent limiting, and OPD applications, they are suitable for various non-corrosive dry gas applications.



Features

- Internal relief - OPD.
- Vent limiting option.
- Outlet pressure up to 5 psig.
- Corrosion-resistant exterior.
- Conforms to ANSI B109.4.



Capacity Table

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

Inlet Pressure	O R I F I C E									
	1/8"		3/16"		1/4"		3/8"		1/2"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
0.5 psi	117	184	101	159	169	266	203	320	242	381
1 psi	136	214	148	233	210	331	260	410	571	899
2 psi	221	348	210	331	296	466	377	594	1039	1636
3 psi	234	369	257	405	460	725	468	737	1429	2251
5 psi	292	460	351	553	649	1022	1169	1841	1558	2454
10 psi	338	532	545	858	1091	1718	1748	2753	1740	2741
15 psi	390	614	701	1104	1481	2333	2104	3314		
20 psi	491	773	818	1288	1870	2945	2403	3785		
30 psi	619	975	1286	2025	2571	4049				
40 psi	717	1129	2260	3560	3251	5120				
50 psi	805	1268	2494	3928	3636	5727				
60 psi	997	1570	2571	4049	4052	6382				
80 psi	1403	2210	3696	5821						
100 psi	1675	2638	4595	7237						
125 psi	1850	2914	4812	7579						

Green S02A/1" VB used to develop table. 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									
	1/8"		3/16"		1/4"		3/8"		1/2"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
1 psi	156	246	94	148	187	295	285	449	584	920
2 psi	182	287	156	246	292	460	325	512	1143	1800
3 psi	265	417	195	307	374	589	792	1247	1688	2659
5 psi	335	528	234	369	592	932	1562	2460	2013	3170
10 psi	386	608	390	614	1083	1706	1792	2822	2338	3682
15 psi	530	835	545	858	1535	2418	2208	3478		
20 psi	600	945	623	981	2049	3227	2338	3682		
30 psi	753	1186	1558	2454	2766	4356				
40 psi	922	1452	2338	3682	3384	5330				
50 psi	1052	1657	2435	3835	3701	5829				
60 psi	1183	1863	2571	4049	3896	6136				
80 psi	1403	2210	3790	5969						
100 psi	1753	2761	4749	7480						
125 psi	1900	2993	5214	8212						
Silver S02B/1" VB used 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									
	1/8"		3/16"		1/4"		3/8"		1/2"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
2 psi	195	307	195	307	273	430	468	737	623	981
3 psi	218	343	234	369	312	491	623	981	1013	1595
5 psi	234	369	351	553	506	797	857	1350	1714	2700
10 psi	358	564	545	858	779	1227	1870	2945	3117	4909
15 psi	468	737	740	1166	1091	1718	2727	4295		
20 psi	545	858	857	1350	1636	2577	3429	5401		
30 psi	701	1104	1247	1964	2727	4295				
40 psi	584	920	2260	3560	3740	5891				
50 psi	701	1104	2338	3682	4519	7117				
60 psi	779	1227	2649	4172	5143	8100				
80 psi	1558	2454	3671	5782						
100 psi	2104	3314	4570	7198						
125 psi	2250	3544	5210	8206						
Silver S02B/1" VB used to develop table. 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									
	1/8"		3/16"		1/4"		3/8"		1/2"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
3 psi	187	295	179	282	234	369	351	553	429	676
5 psi	265	417	257	405	390	614	545	858	1091	1718
10 psi	358	564	390	614	623	981	1169	1841	2104	3314
15 psi	468	737	545	858	935	1473	1714	2700		
20 psi	545	858	701	1104	1403	2210	2416	3805		
30 psi	701	1104	935	1473	2026	3191				
40 psi	1013	1595	2026	3191	3117	4909				
50 psi	1052	1657	2182	3437	3662	5768				
60 psi	1130	1780	2260	3560	4442	6996				
80 psi	1661	2616	3271	5152						
100 psi	2150	3386	4110	6473						
125 psi	2381	3750	5170	8143						
Yellow S02D/1" VB used 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.

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

Inlet Pressure	O R I F I C E									
	1/8"		3/16"		1/4"		3/8"		1/2"	
	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
10 psi	273	430	468	737	701	1104	1714	2700	2805	4418
15 psi	351	553	655	1032	1169	1841	2494	3928		
20 psi	390	614	779	1227	1792	2822	3039	4786		
30 psi	468	737	1481	2333	2571	4049				
40 psi	584	920	2338	3682	3662	5768				
50 psi	662	1043	2455	3867	4364	6873				
60 psi	825	1299	2494	3928	5065	7977				
80 psi	1350	2126	3752	5909						
100 psi	1467	2311	4673	7360						
125 psi	1596	2514	5794	9126						
White S0204E/1" VB used 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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Specifications

- Pipe sizes 1/2" to 1 1/4" NPT.
Gas Types Natural gas, LPG, other non-corrosive dry gases.
Maximum Inlet Pressure 10 to 125 psig per orifice.
Outlet Pressure 2" wc to 5 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
Orange	2" wc - 7" wc	S02F
Green	6.5" wc - 16" wc	S02A
Silver	14" wc - 1 psig	S02B
Yellow/Black	26" wc - 1.5 psig	S02C
Yellow (HP)	1 psig - 3 psig	S02D
White (HP)	2 psig - 5 psig	S0204E

Orifice Max Pressure		
Size	Max Inlet Pressure	P/N
1/8"	125 psig	F02A
3/16"	125 psig	F02E
1/4"	60 psig	F02B
3/8"	20 psig	F02C
1/2"	10 psig	F02D

Gas Type		
Gas	Specific Gravity	Correction Factor (CF)
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

NGR02 Dimensions		
Pipe Size	Vent (NPT)	Wt. (lb)
1/2", 3/4", 1", 1 1/4"	1"	3.75



John M. Ellsworth Co., Inc.
P.O. Box 240072
8700 West Bradley Road
Milwaukee, WI 53224
800-333-3331 PHONE
info@jmesales.com E-MAIL
www.JMEsales.com WEB

