

NGRB



Product Summary

The NGRB series gas regulators are single-stage, self-operated devices for heavy-duty use with high, medium, and low-pressure non-corrosive gases. They feature a built-in particle relief valve, which gradually releases occasional rises in outlet pressure into the atmosphere, preventing the activation of overpressure shut-off valves or high-limit switches due to sudden flow or temperature variations.

Features

- High capacity at low inlet pressures.
- Outlet pressures up to 21.4 psig.
- Internal balance valve enabling low lock-up with high inlet pressures.
- Corrosion-resistant exterior.
- Internal token relief.
- Field-interchangeable springs.
- Designed for easy maintenance.

NOTE: The NGRB regulator requires a downstream sensing line that senses the downstream pressure to operate. This sensing line must be installed within the piping system and connected to the regulator at its appropriate connection.



Capacity Tables

NGRB2 Capacity Table

Set Point	7" wc	10" wc	14" wc	1 psi	2 psi	5 psi	10 psi	20 psi
Pressure Drop	1" wc	2" wc	2" wc	5.6" wc	11.2" wc	1 psi	2 psi	4 psi
Inlet Pressure								
2 psi	10900	10019	10668	11596				
5 psi	18089	17161	15538	21475	17161			
10 psi	24119	25325	23423	32004	30612	30148		
15 psi	27829	27829	24351	41280	39889	38961	31076	
20 psi	35065	31076	28432	45918	51020	44527	40816	
30 psi	41744	40353	39889	61688	64007	63080	60297	62152
40 psi	49165	48701	46382	64935	77922	69573	69573	81169
50 psi	55659	55195	59369	67254	78850	74212	83488	83488
60 psi	63080	59833	61688	69573	83488	88126	90445	92764
70 psi	62616	68182	62616	67254	87199	91837	92764	102041
75 psi	66790	69573	65399	67254	88126	95083	99722	102041

NGRB3 Capacity Table

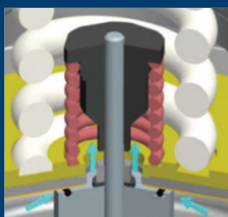
Set Point	7" wc	10" wc	14" wc	1 psi	2 psi	5 psi	10 psi	20 psi
Pressure Drop	1" wc	2" wc	2" wc	5.6" wc	11.2" wc	1 psi	2 psi	4 psi
Inlet Pressure								
2 psi	17161	17625	16234	16698				
5 psi	21800	20872	23655	32468	36178			
10 psi	22727	23191	30148	46382	60297	46382		
15 psi	29685	27829	39425	53340	71892	60297	55659	
20 psi	38033	64935	41744	64935	78850	69573	64935	
30 psi	65863	74212	63544	76531	88126	102041	74212	88126
40 psi	74212	85807	82560	78850	92764	83488	81169	134508
50 psi	88126	85807	85807	83488	92764	81169	83488	134508
60 psi	88126	88126	83488	92764	92764	88126	120594	134508
70 psi	78850	85807	88126	97403	92764	83488	120594	134508
75 psi	88126	88126	88126	99722	97403	106679	120594	134508

Specifications

- Pipe Sizes. 2" and 3" FL.
 Gas Types. Natural gas, LPG, other non-corrosive dry gases.
 Maximum Inlet Pressure. 145 psig.
 Outlet Pressure 7" wc to 21.4 psig.
 Maximum Emergency Inlet Pressure 145 psig.
 Operating Temperature. -4°F to +140°F.
 Materials:
 - Housing. Carbon steel.
 - Valve Body. Ductile iron.
 - Diaphragm/Valve Seat. Buna N.
 - Orifice. High-strength brass.

Relief Valve Built In

The NGRB regulator features a built-in partial relief valve that gradually releases occasional outlet pressure spikes into the atmosphere, preventing the overpressure shut-off valve from triggering due to sudden flow or temperature changes.



The NGRB2 and NGRB3 pressure regulators feature an internal balanced valve, ensuring low lock-up even with significant inlet pressure variations. Their top-entry design enables repairs to be performed without removing the regulator from its installation.

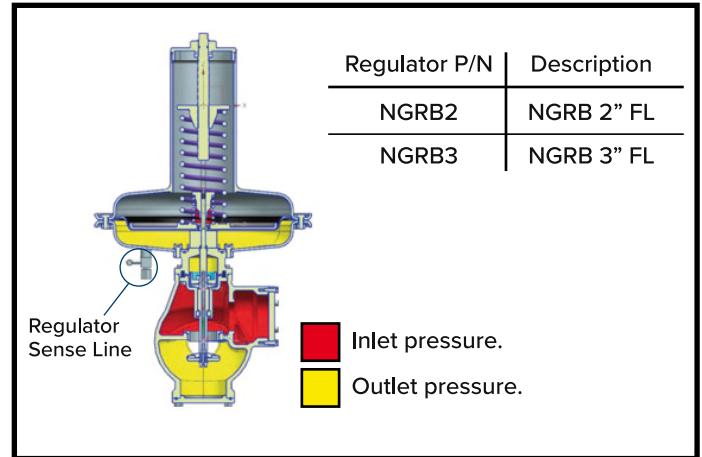
Gas Regulators

NGRB



NGRB Series Spring Chart

Color	Outlet Range	P/N
Grey	7.0" wc - 20" wc	SBA
Yellow	20" wc - 40" wc	SBB
Brown	1.3 psig - 2.9 psig	SBC
Blue	2.2 psig - 4.3 psig	SBD
White	3.6 psig - 8.6 psig	SBE
Red	7.9 psig - 12.8 psig	SBF
Silver	11.5 psig - 21.4 psig	SBG



NGRB Series Dimensions

Model	Pipe Size	Dimensions (in.)					Wt. (lb)
		A	B	C	D	F	
NGRB2	2" FL	10.0	21.10	5.3	14.80	25.54	64
NGRB3	3" FL	11.77	21.85	7.0	14.80	27.0	99

