

# High-Pressure Regulators

## RG20 Series

The RG20 is a direct spring-operated, pressure regulator that can be used anywhere pressure regulation of natural gas, air or other gas is required. Its housing can be moved to one of four positions to save space during installation.

The RG20 is designed for easy maintenance by allowing access to the body without removing it from the line. A NACE option is available for sour service.

The RG20H is a high-pressure option that includes a steel housing and spring cover capable of handling pressures above 150 psi.

The RG20R is a self-relieving version of the RG20. If the downstream pressure exceeds the set point, the RG20R will vent the excess pressure to atmosphere.



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## Specifications

**Sizes:** 1" & 2"

**Connection:** Female NPT

**Body Type:** Globe

**Orifice Sizes:** .125" (1/8"), .188" (3/16"), .25", .375" (3/8"), .50"

**Temperature Range:** -20° F to 180° F (-29° C to 82° C)

**Body Pressure Rating:** 2000 psi

**Materials:**

**Body:** WCB steel

**Housing and Spring Cover:** Aluminum (RG20, RG20R), WCB steel (RG20H)

**Orifice and Disk Holder:** Aluminum, stainless (optional)

**Disk:** Buna, Viton®, nylon

**Diaphragm:** Buna, Viton® (optional)

**Weight:** Approximate

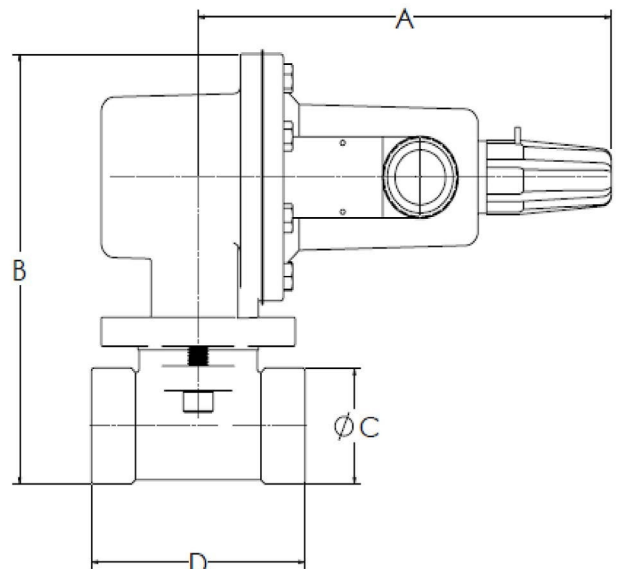
**1":** 6.5 lbs aluminum or 10lbs steel

**2":** 10.5 lbs aluminum or 14 lbs steel

### Housing and Spring Cover Pressure Ratings

Material Pressure Limitations:	Material		
	RG20	RG20R	RG20H
To prevent housing failure	375 psi	375 psi	1500 psi
To prevent leakage to atmosphere	250 psi	250 psi	800 psi
To prevent damage to internal parts	60 psi	120 psi	120 psi

## Dimensions



Body Size	Dimensions							
	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
1"	7.72	196.1	7.40	188.0	2.00	50.8	4.00	101.6
2"	7.72	196.1	8.47	215.1	3.38	85.9	5.00	127.0



Capacities of 0.6 S.G. Natural Gas in SCFH — RG20 (Continued)

Outlet Pressure Range	Outlet Pressure		Inlet Pressure		1" Body Size					2" Body Size				
	psig	bar	psig	bar	Orifice Diameter					Orifice Diameter				
					.125"	.188"	.25"	.375"	.50"	.125"	.188"	.25"	.375"	.50"
35 to 80 psig (2.4 to 5.5 bar) Blue Spring	60	4.1	75	5.2	1,230	2,760	4,880	8,630	16,100	1,260	2,760	4,900	9,000	12,300
			100	6.9	1,740	4,010	7,000	13,000	19,300	1,740	4,010	7,000	15,000	20,400
			150	10.3	2,580	5,850	10,500	18,900	32,800	2,580	5,850	10,500	23,300	35,200
			200	13.8	3,370	7,630	13,700	24,000	42,200	3,370	7,630	13,700	30,400	53,900
			300	20.7	4,910	11,200	20,100	32,500	69,100	4,910	11,200	20,100	44,600	79,000
			500	34.5	8,090	18,300	32,900	64,000	94,300	8,090	18,300	32,900	73,000	38,800
			750	51.8	12,000	27,200	43,380	66,000	130,000	12,000	27,200	48,900	53,000	32,000
			1,000	69.0	16,000	36,100	50,300	67,700		16,000	36,100	43,000	52,000	
			1,250	86.2	19,000	45,000	57,000			19,000	45,000	70,000		
			1,500	103	22,000	54,000	63,000			22,000	54,000	43,000		
	1,750	121	25,000	63,000				25,000	26,000					
	2,000	138	28,000					28,000						
	80	5.5	100	5.2	1,600	3,750	6,650	12,200	18,600	1,630	3,750	6,400	12,800	20,400
			150	10.3	2,580	5,850	10,500	21,100	33,600	2,580	5,850	10,500	23,300	41,300
			200	13.8	3,370	7,630	13,700	28,400	44,100	3,370	7,630	13,700	30,400	53,900
			300	20.7	4,910	11,200	20,100	43,300	75,400	4,910	11,200	20,100	44,600	79,000
			500	34.5	8,090	18,300	32,900	71,600	110,000	8,090	18,300	32,900	73,000	48,000
			750	51.8	12,000	27,200	48,900	105,500	135,000	12,000	27,200	48,900	87,000	44,000
			1,000	69.0	16,000	36,100	64,900	118,000		16,000	36,100	65,000	63,000	
			1,250	86.2	19,000	45,000	80,000			19,000	45,000	63,000		
1,500			103	22,000	54,000	96,000			22,000	54,000	86,000			
1,750			121	25,000	63,000				25,000	63,000				
2,000	138	28,000					28,000							
70 to 150 psig (4.8 to 10.3 bar) Red Spring	100	6.9	150	10.3	2,510	5,540	8,710	16,000	24,000	2,510	5,540	8,600	16,000	22,000
			200	13.8	3,370	7,630	12,000	21,300	34,100	3,370	7,630	13,700	22,000	33,000
			300	20.7	4,910	11,200	19,400	30,100	53,200	4,910	11,200	20,100	35,000	65,300
			500	34.5	8,090	18,300	31,800	66,500	83,900	8,090	18,300	32,900	73,000	129,000
			750	51.8	12,000	27,200	47,300	95,300	117,000	12,000	27,200	48,900	108,000	54,000
			1,000	69.0	16,000	36,100	59,700	100,000	120,000	16,000	36,100	64,800	82,000	
			1,250	86.2	19,000	45,000	72,000	114,000		19,000	45,000	80,000	110,000	
			1,500	103	22,000	54,000	86,000			22,000	54,000	96,000		
			1,750	121	25,000	63,000	95,000			25,000	63,000	112,000		
			2,000	138	28,000	71,000				28,000	71,000			
	125	8.6	150	10.3	2,340	5,340	9,470	15,700	20,800	2,340	5,340	8,600	16,000	24,000
			200	13.8	3,320	7,550	13,400	28,100	32,800	3,320	7,550	13,700	24,000	36,000
			300	20.7	4,910	11,200	20,100	36,300	52,600	4,910	11,200	20,100	39,000	65,300
			500	34.5	8,090	18,300	32,900	70,800	109,000	8,090	18,300	32,900	73,000	129,000
			750	51.8	12,000	27,200	48,900	104,000	158,000	12,000	27,200	48,900	108,000	59,000
			1,000	69.0	16,000	36,100	64,800	138,000	160,000	16,000	36,100	64,800	58,000	
			1,250	86.2	19,000	45,000	80,000	145,000		19,000	45,000	80,000	75,000	
			1,500	103	22,000	54,000	96,000			22,000	54,000	96,000		
			1,750	121	25,000	63,000	112,000			25,000	63,000	112,000		
			2,000	138	28,000	71,000				28,000	71,000			
150	10.3	200	13.8	3,200	7,290	12,900	21,400	33,600	3,200	7,290	13,000	24,000	38,000	
		300	20.7	4,910	11,200	17,200	40,100	55,900	4,910	11,200	20,100	44,600	64,200	
		500	34.5	8,090	18,300	32,900	70,300	111,000	8,090	18,300	32,900	73,000	129,000	
		750	51.8	12,000	27,200	48,900	104,000	160,000	12,000	27,200	48,900	108,000	62,000	
		1,000	69.0	16,000	36,100	64,800	138,000	162,000	16,000	36,100	64,800	144,000		
		1,250	86.2	19,000	45,000	80,000	150,000		19,000	45,000	80,000	81,000		
		1,500	103	22,000	54,000	96,000			22,000	54,000	96,000			
		1,750	121	25,000	63,000	112,000			25,000	63,000	112,000			
2,000	138	28,000	71,000				28,000	71,000						

- Capacity is based on 20 percent droop unless otherwise noted below.
- For pressure setting under 10 psig (0.69 bar) limit the input pressure to 100 psig (6.9 bar) to obtain the set point.
- For 5 psig (0.34 bar) pressure set point, the droop is 2 psig (0.14 bar).
- Grayed out areas indicate that the inlet pressure is too high for a given orifice size.
- 10-95 psi utility spring available.
- To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.
- To convert SCFH to m<sup>3</sup> /hr, multiply 0.0268.





Outlet Pressure Range	Outlet Pressure		Inlet Pressure		1" Body Size					2" Body Size				
	psig	bar	psig	bar	Orifice Diameter					Orifice Diameter				
					.125"	.188"	.25"	.375"	.50"	.125"	.188"	.25"	.375"	.50"
35 to 80 psig (2.4 to 5.5 bar) Blue Spring	60	4.1	75	5.2	1,230	2,760	4,860	8,600	12,800	1,230	2,760	4,860	8,600	12,800
			100	6.9	1,740	3,910	7,000	12,500	16,700	1,740	3,910	7,000	12,500	16,700
			150	10.3	2,580	5,850	10,500	16,800	23,000	2,580	5,850	10,500	16,800	23,000
			200	13.8	3,370	7,630	13,700	20,900	27,700	3,370	7,630	13,700	20,900	27,700
			300	20.7	4,910	11,200	20,100	28,100		4,910	11,200	20,100	28,100	
			500	34.5	8,090	18,300	28,500			8,090	18,300	28,500		
			750	51.8	12,000	27,200	37,400			12,000	27,200	37,400		
			1,000	69.0	16,000	33,300				16,000	33,300			
			1,250	86.2	19,000					19,000				
			1,500	103	22,000					22,000				
	1,750	121	25,000					25,000						
	2,000	138												
	80	5.5	100	5.2	1,630	3,570	6,490	12,000	17,200	1,630	3,570	6,490	12,000	17,200
			150	10.3	2,580	5,750	10,500	18,900	25,000	2,580	5,750	10,500	18,900	25,000
			200	13.8	3,370	7,630	13,700	23,000	29,000	3,370	7,630	13,700	23,000	29,000
			300	20.7	4,910	11,200	20,100	26,000		4,910	11,200	20,100	26,000	
			500	34.5	8,090	18,300	29,000			8,090	18,300	29,000		
			750	51.8	12,000	23,100	30,900			12,000	23,100	30,900		
			1,000	69.0	16,000	27,400				16,000	27,400			
			1,250	86.2	19,000					19,000				
1,500			103	22,000					22,000					
1,750			121	25,000					25,000					
2,000	138													
70 to 150 psig (4.8 to 10.3 bar) Red Spring	100	6.9	150	10.3	2,510	5,540	8,310	15,500	20,300	2,510	5,540	8,310	15,500	20,300
			200	13.8	3,370	7,630	12,000	20,100	25,700	3,370	7,630	12,000	20,100	25,700
			300	20.7	4,910	11,200	18,200			4,910	11,200	18,200		
			500	34.5	8,090	18,300				8,090	18,300			
			750	51.8	12,000					12,000				
			1,000	69.0	16,000					16,000				
			1,250	86.2										
			1,500	103										
			1,750	121										
			2,000	138										
	125	8.6	150	10.3	2,300	5,090	9,130	15,700	20,800	2,300	5,090	9,130	15,700	20,800
			200	13.8	3,320	7,360	13,160	22,400	28,800	3,320	7,360	13,160	22,400	28,800
			300	20.7	4,910	11,200	19,700			4,910	11,200	19,700		
			500	34.5	8,090	18,300				8,090	18,300			
			750	51.8	12,000					12,000				
			1,000	69.0	16,000					16,000				
			1,250	86.2										
			1,500	103										
			1,750	121										
			2,000	138										
	150	10.3	200	13.8	3,200	7,020	12,500	21,400	30,600	3,200	7,020	12,500	21,400	30,600
			300	20.7	4,910	11,200	17,200			4,910	11,200	17,200		
			500	34.5	8,090	18,300				8,090	18,300			
			750	51.8	12,000					12,000				
			1,000	69.0	16,000					16,000				
			1,250	86.2										
			1,500	103										
			1,750	121										
2,000	138													

- Capacity is based on 20 percent droop unless otherwise noted below.
- For pressure setting under 10 psig (0.69 bar) limit the input pressure to 100 psig (6.9 bar) to obtain the set point.
- For 5 psig (0.34 bar) pressure set point, the droop is 2 psig (0.14 bar).
- Grayed out areas indicate that the inlet pressure is too high for a given orifice size.
- 10-95 psi utility spring available.
- To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.
- To convert SCFH to m<sup>3</sup> /hr, multiply 0.0268.

Capacities of 0.6 S.G. Natural Gas in SCFH — RG20H

Outlet Pressure Range	Outlet Pressure		Inlet Pressure		1" Body Size					2" Body Size				
					Orifice Diameter					Orifice Diameter				
	psig	bar	psig	bar	.125"	.188"	.25"	.375"	.50"	.125"	.188"	.25"	.375"	.50"
140 to 250 psig (9.7 to 17.2 bar) Blue Spring RG20H Only	150	10.3	200	13.8	3,200	7,290	11,500	21,600	31,000	3,200	7,290	13,700	24,100	31,000
			250	17.2	4,100	9,200	15,400	28,600	40,000	4,100	9,200	16,100	28,600	40,000
			300	20.7	4,910	11,200	19,300	31,000	46,000	4,910	11,200	19,300	31,000	46,000
			400	27.6	6,500	14,800	25,000	40,000	50,000	6,500	14,800	25,000	40,000	50,000
			500	34.5	8,090	18,300	32,000	51,000		8,090	18,300	32,000		
			750	51.7	12,000	27,200	46,000			12,000	27,200	48,000		
			1,000	69.0	16,000	36,100	60,000			16,000	36,100	65,000		
			1,250	86.2	19,000	45,000				19,000	45,000			
			1,500	103	22,000	54,000				22,000	54,000			
			1,750	121	25,000	63,000				25,000	63,000			
	2,000	138	28,000					28,000						
	200	13.8	250	17.2	3,850	8,400	15,000	31,000	41,000	3,850	8,400	16,100	33,000	41,000
			300	20.7	4,910	11,200	19,500	36,000	52,000	4,910	11,200	20,100	36,000	52,000
			400	27.6	6,500	14,800	26,500	52,000	68,000	6,500	14,800	26,500	52,000	68,000
			500	34.5	8,090	18,300	33,000	61,000		8,090	18,300	33,000	61,000	
			750	51.8	12,000	27,200	49,000			12,000	27,200	49,000		
			1,000	69.0	16,000	36,100	65,000			16,000	36,100	65,000		
			1,250	86.2	19,000	45,000				19,000	45,000			
			1,500	103	22,000	54,000				22,000	54,000			
	250	17.2	300	20.7	4,500	9,900	18,500	37,000	75,000	4,500	9,900	18,500	37,000	75,000
			400	27.6	6,400	14,300	26,000	55,000	81,000	6,400	14,300	26,000	55,000	81,000
			500	34.5	8,090	18,300	33,000	64,000	95,000	8,090	18,300	33,000	64,000	95,000
			750	51.8	12,000	27,200	49,000	102,000		12,000	27,200	49,000	102,000	
			1,000	69.0	16,000	36,100	65,000			16,000	36,100	65,000		
			1,250	86.2	19,000	45,000	81,000			19,000	45,000	81,000		
			1,500	103	22,000	54,000				22,000	54,000			
			1,750	121	25,000	63,000				25,000	63,000			
	240 to 500 psig (16.5 to 34.5 bar) Red Spring RG20H Only	250	17.2	300	20.7	4,500	9,900	18,500	37,000	75,000	4,500	9,900	18,500	37,000
400				27.6	6,400	14,300	26,000	55,000	81,000	6,400	14,300	26,000	55,000	81,000
500				34.5	8,090	18,300	33,000	64,000	95,000	8,090	18,300	33,000	64,000	95,000
750				51.8	12,000	27,200	49,000	102,000		12,000	27,200	49,000	102,000	
1,000				69.0	16,000	36,100	65,000			16,000	36,100	65,000		
1,250				86.2	19,000	45,000	81,000			19,000	45,000	81,000		
1,500				103	22,000	54,000				22,000	54,000			
1,750				121	25,000	63,000				25,000	63,000			
2,000				138	28,000	71,000				28,000	71,000			
300				20.7	350	24.1	5,150	11,300	18,400	31,000	45,000	5,150	11,300	18,400
		400	27.6		6,200	13,700	23,400	40,000	52,000	6,200	13,700	23,400	40,000	52,000
		500	34.5		8,090	18,300	32,000	53,000	67,000	8,090	18,300	32,000	53,000	67,000
		750	51.7		12,000	27,200	48,000	80,000		12,000	27,200	48,000	80,000	
		1000	69		16,000	36,100	62,000			16,000	36,100	62,000		
		1250	86.2		19,000	45,000	79,000			19,000	45,000	79,000		
		1500	103		22,000	54,000				22,000	54,000			
		1750	121		25,000	63,000				25,000	63,000			
2000		138	28,000	71,000				28,000	71,000					

Capacities of 0.6 S.G. Natural Gas in SCFH — RG20H (Continued)

Outlet Pressure Range	Outlet Pressure		Inlet Pressure		1" Body Size						2" Body Size				
	psig	bar	psig	bar	Orifice Diameter						Orifice Diameter				
					.125"	.188"	.25"	.375"	.50"	.125"	.188"	.25"	.375"	.50"	
240 to 500 psig (16.5 to 34.5 bar) Red Spring	400	27.6	450	31	6,400	14,000	25,000	47,000	67,000	67,000	6,400	14,000	25,000	47,000	67,000
			500	34.6	8,090	18,300	32,000	54,000	77,000		8,090	18,300	32,000	54,000	77,000
			750	51.7	12,000	27,200	49,000	91,000			12,000	27,200	49,000	91,000	
			1000	69	16,000	36,100	65,000				16,000	36,100	65,000		
			1250	86.2	19,000	45,000	81,000				19,000	45,000	81,000		
			1500	103	22,000	54,000					22,000	54,000			
			1750	121	25,000	63,000					25,000	63,000			
			2000	138	28,000	71,000					28,000	71,000			
RG20H Only	500	34.5	550	37.9	7,700	16,800	33,000	62,000	90,000	7,700	16,800	33,000	62,000	90,000	
			600	47.4	8,800	19,400	37,000	70,000	104,000	8,800	19,400	37,000	70,000	104,000	
			750	51.7	12,000	27,200	49,000	88,000	140,000	12,000	27,200	49,000	88,000	140,000	
			1000	69	16,000	36,100	65,000	130,000		16,000	36,100	65,000	130,000		
			1250	86.2	19,000	45,000	81,000			19,000	45,000	81,000			
			1500	103	22,000	54,000	97,000			22,000	54,000	97,000			
			1750	121	25,000	63,000				25,000	63,000				
			2000	138	28,000	71,000				28,000	71,000				

- Capacity is based on 20 percent droop unless otherwise noted below.
- For pressure setting under 10 psig (0.69 bar) limit the input pressure to 100 psig (6.9 bar) to obtain the set point.
- For 5 psig (0.34 bar) pressure set point, the droop is 2 psig (0.14 bar).
- Grayed out areas indicate that the inlet pressure is too high for a given orifice size.
- 10-95 psi utility spring available.
- To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.
- To convert SCFH to m3 /hr, multiply 0.0268.

Pressure Ranges

Outlet Pressure Range	Orifice Size	Maximum Inlet Pressure											
		RV20 and RV20H						RV20R					
		Nylon Disk		Buna Disk		Viton Disk		Nylon Disk		Buna Disk		Viton Disk	
		psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
5' to 20 psig (0.34 to 1.4 bar)	.125"	1000	69	1000	69.0	300	20.7	1000	69	1000	69	300	20.7
	.188"	750	51.7	750	51.7	300	20.7	750	51.7	750	51.7	300	20.7
	.25"	500	34.5	500	34.5	300	20.7	500	34.5	500	34.5	300	20.7
	.375"	300	20.7	300	20.7	300	20.7	300	20.7	300	20.7	300	20.7
	.50"	250	17.2	250	17.2	250	17.2	200	13.8	200	13.8	200	13.8
15 to 40 psig (1.0 to 2.8 bar)	.125"	1500	103.4	1000	69.0	300	20.7	1500	103	1000	69	300	20.7
	.188"	1000	69.0	1000	69.0	300	20.7	1000	69	1000	69	300	20.7
	.25"	750	51.7	750	51.7	300	20.7	750	51.7	750	51.7	300	20.7
	.375"	500	34.5	500	34.5	300	20.7	300	20.7	300	20.7	300	20.7
	.50"	300	20.7	300	20.7	300	20.7	200	13.8	200	13.8	200	13.8
35 to 80 psig (2.4 to 5.5 bar)	.125"	2000	137.9	1000	69.0	300	20.7	1750	121	1000	69	300	20.7
	.188"	1750	120.7	1000	69.0	300	20.7	1000	69	1000	69	300	20.7
	.25"	1500	103.4	1000	69.0	300	20.7	750	51.7	750	51.7	300	20.7
	.375"	1000	69.0	1000	69.0	300	20.7	300	20.7	300	20.7	300	20.7
	.50"	750	51.7	750	51.7	300	20.7	200	13.8	200	13.8	200	13.8
70 to 150 psig (4.8 to 10.3 bar)	.125"	2000	137.9	1000	69.0	300	20.7	1000	69	1000	69	300	20.7
	.188"	2000	137.9	1000	69.0	300	20.7	500	34.5	500	34.5	300	20.7
	.25"	1750	120.7	1000	69.0	300	20.7	300	20.7	300	20.7	300	20.7
	.375"	1250	86.2	1000	69.0	300	20.7	200	13.8	200	13.8	200	13.8
	.50"	750	51.7	750	51.7	300	20.7	200	13.8	200	13.8	200	13.8
140 to 250 psig (9.7 to 17.2 bar)	.125"	2000	138										
	.188"	1750	121										
	.25"	1500	103										
	.375"	1000	69.0										
	.50"	750	51.7										
240 to 500 psig (16.5 to 34.5 bar)	.125"	2000	138										
	.188"	1750	121										
	.25"	1500	103										
	.375"	1000	69.0										
	.50"	750	51.7										

1. For outlet pressure setting below 10 psi (.69 bar), the inlet pressure should be 100 psi (6.9 bar) or less.



# RG20R Internal Relief Performance

Outlet Pressure Range	Outlet Pressure Setting		Max Downstream Pressure		Maximum Inlet Pressure to keep Maximum Allowed Downstream System Pressure from Being Exceeded				
					PSI Shown Per Orifice Diameter				
	psig	bar	psi	bar	.125"	.188"	.25"	.375"	.50"
5-20 psig <sup>2</sup> (0.34 to 1.4 bar) Yellow Spring	10	0.69	60	41	740	320	190	95	75
			100	6.9	1,500	620	390	180	130
			125	8.6	1,900	830	480	220	160
			175	12.1	2,000	1,100	670	320	220
			200	13.8	2,000	1,300	770	360	260
	15	1.0	60	4.1	620	260	170	90	70
			100	6.9	1,400	610	370	170	130
			125	8.6	1,900	810	480	220	160
			175	12.1	2,000	1100	670	320	220
			200	13.8	2,000	1,800	770	360	260
	20	1.4	60	4.1	490	210	130	80	65
			100	6.9	1,300	600	360	170	120
			125	8.6	1,800	800	480	220	160
			175	12.1	2,000	1,100	670	320	220
			200	13.8	2,000	1,300	770	360	260
15-40 psig <sup>2</sup> (1.0 to 2.8 bar) Green Spring	15	1.0	60	4.1	380	210	130	80	65
			100	6.9	1300	590	350	170	120
			125	8.6	1800	800	470	220	160
			175	12.1	2000	1100	640	320	220
			200	13.8	2000	1300	780	370	260
	20	1.4	60	4.1	200	150	100	70	65
			100	6.9	1200	550	330	160	120
			125	8.6	1700	760	480	220	160
			175	12.1	2000	1100	670	320	220
			200	13.8	2000	1300	770	360	260
	30	2.1	100	6.9	950	450	260	140	110
			125	8.6	1500	670	400	190	150
			175	12.1	2000	1000	610	300	220
			200	13.8	2000	1200	760	360	260
	40	2.1	250	17.2	2000	1600	970	460	320
100			6.9	700	330	200	120	108	
125			8.6	1300	560	340	180	140	
175			12.1	1800	1000	550	290	220	
35-80 psig (2.4 to 5.5 bar) Blue Spring	40	2.8	200	13.8	2000	1200	720	340	250
			250	17.2	2000	1600	940	450	320
			125	8.6	1100	500	300	170	140
			150	10.3	1600	750	440	230	180
	50	3.4	125	8.6	820	400	230	150	140
			150	10.3	1400	650	370	210	170
			175	12.1	1900	700	530	270	210
			200	13.8	2000	1100	670	330	240
	70	4.8	250	17.2	2000	1500	920	430	320
			150	10.3	850	430	250	170	160
			175	12.1	1400	670	400	230	190
			200	13.8	2000	920	550	280	230
	80	5.5	250	17.2	2000	1300	830	400	310
			150	10.3	500	300	200	160	150
			175	12.1	1200	550	330	210	190
200			13.8	1700	800	480	270	220	
			250	17.2	2000	1200	770	390	300

- Shaded areas indicate maximum inlet pressures allowed during system malfunction only.  
 - See Pressure Ranges, table gives the maximum inlet pressure for normal regulator operation.



# RG20R Internal Relief Performance (Continued)

Outlet Pressure Range	Outlet Pressure Setting		Max Downstream Pressure		Maximum Inlet Pressure to keep Maximum Allowed Downstream System Pressure from Being Exceeded				
					PSI Shown Per Orifice Diameter				
					.125"	.188"	.25"	.375"	.50"
70-150 psig (4.8 to 10.3 bar) Red Spring	70	1.4	175	12.1	600	400	260	200	175
			200	13.8	1,200	630	380	250	210
			250	17.2	2,000	1,100	680	360	290
	80	5.5	175	12.1	250	240	200	190	175
			200	13.8	960	520	330	240	210
			250	17.2	2,000	1,000	620	350	280
	100	6.9	200	13.8	250	240	230	210	210
			250	17.2	1,600	770	520	320	270
	125	8.6	250	17.2	1,000	500	390	290	260
	150	10.3	250	17.2	260	260	260	260	260

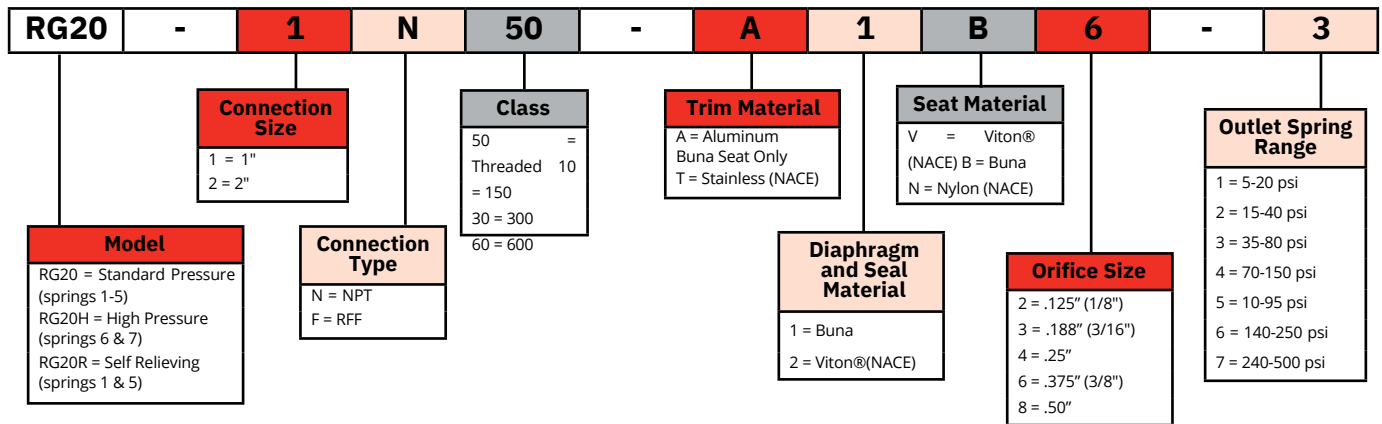
- Shaded areas indicate maximum inlet pressures allowed during system malfunction only.  
 - See Pressure Ranges, table gives the maximum inlet pressure for normal regulator operation.

## How to Order

Options are listed below. All configurations may not be available. Call your sales representative or FW Murphy for more information. Repair kits are available.

Example Model No. **RG20-1N50-A1B6-3**

RG20 Series Regulator, 1" Body, Threaded Ends, Aluminum Disk Holder, Buna Diaphragm, Buna Seat and Seals, .375" Orifice, 35-80 PSI



Note: Nylon is only recommended for use with springs 3-7 (35-500 psi).

Approximate Weight		
	Material	
	Aluminum	Steel
1"	6.5 lbs	10 lbs
2"	10.5 lbs	14 lbs



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