



## “Mighty Gun” Pressure Regulator

### Application

This self-contained pressure-reducing regulator is designed for flexibility and is for low and high pressure systems. It can be used with natural gas, air, or other gases. It is primarily used to regulate pressure and volume to fuel gas valves or production instrumentation on oil and gas process equipment.

### Features

- Multiple Orifice Sizes, 316 Stainless Steel Standard
- Easy Maintenance: The top entry design allows the trim to be replaced with the body still in-line.
- Protective Cap: Tamper Resistant Pressure Setting
- Steel Body and Die Cast Aluminum Diaphragm Housing
- Body can be rotated to four positions with diaphragm housing for user convenience.
- NACE Compatible
- Utility Spring Range Available: 10 to 95 psig
- Self-Relieving Version Available
- High Pressure Version Available

### Specifications

Connection	1" and 2" FNPT
Seat Ring Orifices	3/32", 1/8", 3/16", 1/4", 3/8" or 1/2"
Operating Temperature	-20°F to 180°F
Materials (NACE Compatible)	See Parts
Maximum Inlet Pressure, Differential Pressure, and Outlet Pressure Ranges	See Table 1
Maximum Spring and Diaphragm Housing Pressure	See Table 2
Flow Capacities	See Table 3, 4 & 5

### Overpressure Protection

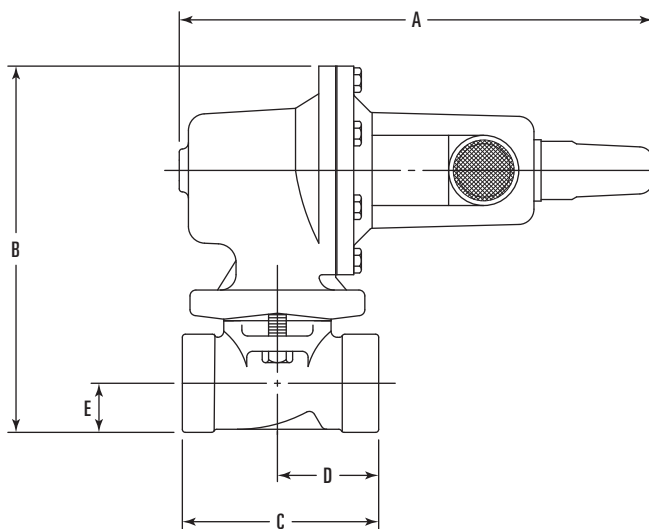
As is true with most regulators, the WellMark “Mighty Gun” Series 2002PR Regulator has an outlet pressure rating that is lower than the inlet pressure rating. Overpressure protection is needed if there is a chance that the outlet pressures could exceed the levels shown in Table 2.



### Self-Relieving Option

When specified, this option allows the 2002PR regulator to vent excess downstream pressure by means of an internal relief valve. If the pressure downstream of the regulator rises beyond the regulator's set point, the excess pressure will be vented through the port in the spring housing. In some cases this can eliminate the need for a relief valve downstream of the regulator.

### Dimensional Data



### General Dimensions

Size	A	B	C	D	E
1"	9 11/16"	7 1/2"	4"	2 1/16"	1"
2"	9 11/16"	8 5/8"	5"	2 1/2"	1 21/32"



## “Mighty Gun” Pressure Regulator

**Table 1. Max. Pressure, Differential Pressure & Outlet Pressure Ranges**

Outlet Pressure Range Spring Part No. (Color Code)	Port Diameter (Inches)	Maximum Inlet Pressure (psig) Nylon Seat	Maximum Differential Pressure (psig) Neoprene or Viton® Seat
5 (1) to 20 psig 11038 (YELLOW)	3/32	2000	1000
	1/8	1000	1000
	3/16	750	750
	1/4	500	500
	3/8	300	300
15 to 40 psig 11039 (GREEN)	1/2	250	250
	3/32	2000	1000
	1/8	1500	1000
	3/16	1000	1000
	1/4	750	750
35 to 80 psig 11040 (BLUE)	3/8	500	500
	1/2	300	300
	3/32	2000	1000
	1/8	2000	1000
	3/16	1750	1000
70 to 150 psig 11041 (RED)	1/4	1500	1000
	3/8	1000	1000
	1/2	750	750
	3/32	2000	1000
	1/8	2000	1000
140 to 250 psig 11040 (BLUE)(2)	3/16	1750	1000
	1/4	1500	1000
	3/8	1000	750
	1/2	750	500
	3/32	2000	1000
240 to 500 psig 11041 (RED)(2)	1/8	2000	1000
	3/16	1750	1000
	1/4	1500	1000
	3/8	1000	1000
	1/2	750	750

1. For pressure settings under 10 psig, inlet pressure should be limited to approximately 100 psig so the set point adjustment can be reached.

2. High pressure version only.

## Capacity Data

Natural gas regulating capacities for selected inlet pressures and outlet pressure settings are shown in Table 2. Flows are in scfh (60°F and 14.7 psia) of 0.6 specific gravity, natural gas at 60°F. To determine the equivalent capacities for other gases, multiply the table capacity by the following factors: for air use 0.775, for nitrogen use 0.789, for propane use 0.628, or for butane use 0.548. For gases of other specific gravities, multiply the given capacity by 0.775, and divide by the square root of the particular specific gravity.

**Table 2. Max. Spring and Diaphragm Housing Pressure**

Maximum Pressure Notes	Max. Spring and Diaphragm Pressure (psig)		
	Standard	Self-Relieving	High Pressure
Maximum pressure to avoid leakage to atmosphere other than relief action. Damage may occur to internal parts.	250	250	800
Maximum pressure to prevent burst of spring or diaphragm housing.	375	375	1500
Maximum diaphragm housing over-pressure (above set point) to avoid damage to internal parts.	60	120	120



# “Mighty Gun” Pressure Regulator

## 1" Standard Pressure Valves

Table 3. Flow Capacities in scfh of 0.6 Specific Gravity Natural Gas <sup>(1)</sup>

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)					
			3/32	1/8	3/16	1/4	3/8	1/2
5 to 20 psig 11038 (YELLOW) <sup>(2)</sup>	5 <sup>(3)</sup>	10	170	330	710	1100	1900	2500
		15	240	390	890	1600	2500	3350
		20	290	500	1160	2060	3400	4450
		30	380	670	1560	2800	4750	6900
		60	640	1170	2600	4710	8140	13,700
		75	770	1410	3150	5710	9790	14,500
		100	990	1800	4070	7310	12,500	16,000
		15	210	375	880	1590	2480	3300
	20	280	490	1150	2050	3380	4410	
	30	380	670	1560	2800	4720	6840	
	60	640	1170	2600	4710	8140	13,700	
	75	770	1410	3150	5710	9790	14,500	
	100	990	1800	4070	7310	12,500	16,000	
	150	1420	2580	5850	10,500	17,000	18,000	
	200	1850	3370	7630	13,700	18,000	18,500	
	300	2700	4910	11,200	19,800	20,000	—	
	500	4400	8090	15,700	20,000	—	—	
	750	5400	12,000	18,000	—	—	—	
	1000	5800	14,000	—	—	—	—	
	1250	6300	—	—	—	—	—	
	1500	6600	—	—	—	—	—	
	1750	6800	—	—	—	—	—	
	2000	7600	—	—	—	—	—	
	15 to 40 psig 11039 (GREEN)	40	60	610	1090	2530	4510	9290
75			760	1370	3080	5640	10,800	16,500
100			990	1790	4070	7310	14,700	21,900
150			1420	2580	5850	10,500	20,500	34,500
200			1850	3370	7630	13,700	27,100	46,400
300			2700	4910	11,200	20,100	40,100	67,100
500			4400	8090	18,300	32,900	63,900	—
750			6600	12,000	27,200	39,400	—	—
1000			8700	16,000	36,100	—	—	—
1250			11,000	19,000	—	—	—	—
1500			13,000	22,000	—	—	—	—
1750			15,000	—	—	—	—	—
2000			17,000	—	—	—	—	—

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)						
			3/32	1/8	3/16	1/4	3/8	1/2	
35 to 80 psig 11040 (BLUE)	60	75	700	1230	2760	4880	8630	16,100	
		100	970	1740	4010	7000	13,000	19,300	
		150	1420	2580	5850	10,500	18,900	32,800	
		200	1850	3370	7630	13,700	24,000	42,200	
		300	2700	4910	11,200	20,100	32,500	69,100	
		500	4400	8090	18,300	32,900	64,000	94,300	
		750	6600	12,000	27,200	43,380	66,900	130,000	
		1000	8700	16,000	36,100	50,300	67,700	—	
		1250	11,000	19,000	45,000	57,000	—	—	
		1500	13,000	22,000	54,000	63,000	—	—	
		1750	15,000	25,000	63,000	—	—	—	
		2000	17,000	28,000	—	—	—	—	
	80	100	900	1600	3750	6650	12,200	18,600	
		150	1410	2580	5850	10,500	21,100	33,600	
		200	1850	3370	7630	13,700	28,400	44,100	
		300	2700	4910	11,200	20,100	43,300	75,400	
		500	4400	8090	18,300	32,900	71,600	110,000	
		750	6600	12,000	27,200	48,900	105,500	135,000	
		1000	8700	16,000	36,100	64,900	118,000	—	
		1250	11,000	19,000	45,000	80,000	—	—	
		1500	13,000	22,000	54,000	96,000	—	—	
		1750	15,000	25,000	63,000	—	—	—	
		2000	17,000	28,000	—	—	—	—	
		70 to 150 psig 11041 (RED)	100	150	1170	2510	5540	8710	16,000
200	1850			3370	7630	12,000	21,300	34,100	
300	2700			4910	11,200	19,400	30,100	53,200	
500	4400			8090	18,300	31,800	66,500	83,900	
750	6600			12,000	27,200	47,300	95,300	117,000	
1000	8700			16,000	36,100	59,700	100,000	120,000	
1250	11,000			19,000	45,000	72,000	114,000	—	
1500	13,000			22,000	54,000	86,000	—	—	
1750	15,000			25,000	63,000	95,000	—	—	
2000	17,000			28,000	71,000	—	—	—	
125	150			1250	2340	5340	9470	15,700	20,800
	200			1830	3320	7550	13,400	28,100	32,800
	300		2700	4910	11,200	20,100	36,300	52,600	
	500		4400	8090	18,300	32,900	70,800	109,000	
	750		6600	12,000	27,200	48,900	104,000	158,000	
	1000		8700	16,000	36,100	64,800	136,000	160,000	
	1250		11,000	19,000	45,000	80,000	145,000	—	
	1500		13,000	22,000	54,000	96,000	—	—	
	1750		15,000	25,000	63,000	112,000	—	—	
	2000		17,000	28,000	71,000	—	—	—	
	150		200	1760	3200	7290	12,900	21,400	33,600
			300	2700	4910	11,200	17,200	40,100	55,900
500			4400	8090	18,300	32,900	70,300	111,000	
750			6600	12,000	27,200	48,900	104,000	160,000	
1000		8700	16,000	36,100	64,800	138,000	162,000		
1250		11,000	19,000	45,000	80,000	150,000	—		
1500		13,000	22,000	54,000	96,000	—	—		
1750		15,000	25,000	63,000	112,000	—	—		
2000		17,000	28,000	71,000	—	—	—		

Notes:

- Capacity is based on 20% droop unless otherwise noted. See “Capacity Data” for equivalent capacities of other gases.
- For pressure settings under 10 psig, inlet pressure should be limited to approximately 100 psig so the set point adjustment can be reached.
- For pressure set point of 5 psig, the droop is 2 psig.



# “Mighty Gun” Pressure Regulator

## 1" High Pressure Valves

Table 3 (continued). Flow Capacities in scfh of 0.6 Specific Gravity Natural Gas <sup>(1)</sup>

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)						
			3/32	1/8	3/16	1/4	3/8	1/2	
140 to 250 psig 11040 (BLUE) <sup>(2)</sup>	150	200	1760	3200	7290	11,500	21,600	31,000	
		250	2260	4100	9200	15,400	28,600	40,000	
		300	2700	4910	11,200	19,300	31,000	46,000	
		400	3600	6500	14,800	25,000	40,000	50,000	
		500	4400	8090	18,300	32,000	51,000	—	
		750	6600	12,000	27,200	46,000	—	—	
		1000	8700	16,000	36,100	60,000	—	—	
		1250	11,000	19,000	45,000	—	—	—	
		1500	13,000	22,000	54,000	—	—	—	
		1750	15,000	25,000	63,000	—	—	—	
		2000	17,000	28,000	—	—	—	—	
		200	250	2160	3850	8400	15,000	31,000	41,000
	300		2700	4910	11,200	19,500	36,000	52,000	
	400		3600	6500	14,800	26,500	52,000	68,000	
	500		4400	8090	18,300	33,000	61,000	—	
	750		6600	12,000	27,200	49,000	—	—	
	1000		8700	16,000	36,100	65,000	—	—	
	1250		11,000	19,000	45,000	—	—	—	
	1500		13,000	22,000	54,000	—	—	—	
	1750		15,000	25,000	63,000	—	—	—	
	2000		17,000	28,000	—	—	—	—	
	250		300	2500	4500	9900	18,500	37,000	75,000
			400	3600	4600	14,300	26,000	55,000	81,000
		500	4400	8090	18,300	33,000	64,000	95,000	
750		6600	12,000	27,200	49,000	102,000	—		
1000		8700	16,000	36,100	65,000	—	—		
1250		11,000	19,000	45,000	81,000	—	—		
1500		13,000	22,000	54,000	—	—	—		
1750		15,000	25,000	63,000	—	—	—		
2000		17,000	28,000	71,000	—	—	—		

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)					
			3/32	1/8	3/16	1/4	3/8	1/2
240 to 500 psig 11041 (RED) <sup>(2)</sup>	250	300	2500	4500	9300	14,000	25,000	37,000
		400	3600	6400	14,300	21,400	36,000	49,000
		500	4400	8090	18,300	26,300	42,000	62,000
		750	6600	12,000	27,200	37,100	57,000	—
		1000	8700	16,000	36,100	47,400	—	—
		1250	11,000	19,000	45,000	57,000	—	—
		1500	13,000	22,000	54,000	—	—	—
		1750	15,000	25,000	63,000	—	—	—
		2000	17,000	28,000	71,000	—	—	—
		300	350	2900	5150	11,300	18,400	31,000
	400		3500	6200	13,700	23,400	40,000	52,000
	500		4400	8090	18,300	32,000	53,000	67,000
	750		6600	12,000	27,200	48,000	80,000	—
	1000		8700	16,000	36,100	62,000	—	—
	1250		11,000	19,000	45,000	79,000	—	—
	1500		13,000	22,000	54,000	—	—	—
	1750		15,000	25,000	63,000	—	—	—
	2000		17,000	28,000	71,000	—	—	—
	400		450	3600	6400	14,000	25,000	47,000
		500	4400	8090	18,300	32,000	54,000	77,000
		750	6600	12,000	27,200	49,000	91,000	—
		1000	8700	16,000	36,100	65,000	—	—
		1250	11,000	19,000	45,000	81,000	—	—
		1500	13,000	22,000	54,000	—	—	—
1750		15,000	25,000	63,000	—	—	—	
2000		17,000	28,000	71,000	—	—	—	
500		550	4300	7700	16,800	33,000	62,000	90,000
		600	4900	8800	19,400	37,000	70,000	104,000
	750	6600	12,000	27,200	49,000	88,000	140,000	
	1000	8700	16,000	36,100	65,000	130,000	—	
	1250	11,000	19,000	45,000	81,000	—	—	
	1500	13,000	22,000	54,000	97,000	—	—	
	1750	15,000	25,000	63,000	—	—	—	
	2000	17,000	28,000	71,000	—	—	—	

Notes:

- Capacity is based on 20% droop unless otherwise noted. See “Capacity Data” for equivalent capacities of other gases.
- High pressure version only.



# "Mighty Gun" Pressure Regulator

## 2" Standard Pressure Valves

Table 4. Flow Capacities in scfh of 0.6 Specific Gravity Natural Gas<sup>(1)</sup>

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)					
			3/32	1/8	3/16	1/4	3/8	1/2
5 to 20 psig 11038 (YELLOW) <sup>(2)</sup>	5 <sup>(3)</sup>	10	170	330	710	1080	1700	2400
		15	240	390	890	1250	1900	2700
		20	290	500	1160	1900	2650	3900
		30	380	670	1580	2800	3680	8500
		60	640	1170	2600	4750	7250	17,800
		75	770	1410	3150	5700	8060	22,400
	100	990	1790	4070	7310	16,200	28,700	
	10	15	210	375	880	1220	1860	2670
		20	280	490	1150	1880	2610	3830
		30	380	670	1560	2760	3640	6460
		60	640	1170	2800	4750	7250	17,800
		75	770	1410	3150	5700	8060	22,400
		100	990	1790	4070	7310	16,200	28,700
		150	1420	2580	5850	10,500	23,300	25,900
		200	1850	3370	7630	13,700	22,700	24,000
		300	2700	4910	11,200	10,300	12,800	—
		500	4400	8090	18,300	21,000	—	—
		750	3600	12,000	27,200	—	—	—
		1000	8700	16,000	—	—	—	—
	1250	11,000	—	—	—	—	—	
	1500	13,000	—	—	—	—	—	
	1750	15,000	—	—	—	—	—	
	2000	17,000	—	—	—	—	—	
	20	30	350	620	1450	2350	4300	6110
50		550	1000	2280	4040	7100	12,800	
60		640	1170	2640	4750	8400	15,700	
100		990	1800	4070	7310	16,200	28,700	
150		1420	2580	5850	10,500	23,300	29,000	
200		1850	3370	7630	13,700	24,000	33,000	
300		2700	4910	11,200	20,100	19,600	—	
500		4400	8090	18,300	32,900	—	—	
750		6600	12,000	27,200	—	—	—	
1000		8700	16,000	—	—	—	—	
1250		11,000	—	—	—	—	—	
1500		13,000	—	—	—	—	—	
1750		15,000	—	—	—	—	—	
2000		17,000	—	—	—	—	—	

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)						
			3/32	1/8	3/16	1/4	3/8	1/2	
35 to 80 psig 11040 (BLUE)	60	75	700	1260	2760	4900	9000	12,300	
		100	970	1740	4010	7000	15,000	20,400	
		150	1420	2580	5850	10,500	23,300	35,200	
		200	1850	3370	7630	13,700	30,400	53,900	
		300	2700	4910	11,200	20,100	44,600	79,000	
		500	4400	8090	18,300	32,900	73,000	38,800	
		750	6600	12,000	27,200	48,900	53,000	32,000	
		1000	8700	16,000	36,100	43,000	52,000	—	
		1250	11,000	19,000	45,000	70,000	—	—	
		1500	13,000	22,000	54,000	43,000	—	—	
		1750	15,000	25,000	26,000	—	—	—	
		2000	17,000	28,000	—	—	—	—	
	80	100	900	1630	3750	6400	12,000	20,400	
		150	1410	2580	5850	10,500	23,300	41,300	
		200	1850	3370	7630	13,700	30,400	53,900	
		300	2700	4910	11,200	20,100	44,600	79,000	
		500	4400	8090	18,300	32,900	73,000	48,000	
		750	6600	12,000	27,200	48,900	87,000	44,000	
		1000	8700	16,000	36,100	65,000	63,000	—	
		1250	11,000	19,000	45,000	63,000	—	—	
		1500	13,000	22,000	54,000	86,000	—	—	
		1750	15,000	25,000	63,000	—	—	—	
		2000	17,000	28,000	—	—	—	—	
		70 to 150 psig 11041 (RED)	100	150	1170	2510	5540	8600	16,000
200	1850			3370	7630	13,700	22,000	33,000	
300	2700			4910	11,200	20,100	35,000	65,300	
500	4400			8090	18,300	32,900	73,000	129,000	
750	6600			12,000	27,200	48,900	108,000	54,000	
1000	8700			16,000	36,100	64,800	82,000	—	
1250	11,000			19,000	45,000	80,000	110,000	—	
1500	13,000			22,000	54,000	96,000	—	—	
1750	15,000			25,000	63,000	112,000	—	—	
2000	17,000			28,000	71,000	—	—	—	
125	150			1250	2340	5340	8600	16,000	24,000
	200			1830	3320	7550	13,000	24,000	36,000
	300		2700	4910	11,200	20,100	39,000	65,300	
	500		4400	8090	18,300	32,900	73,000	129,000	
	750		6600	12,000	27,200	48,900	108,000	59,000	
	1000		8700	16,000	36,100	64,800	58,000	—	
	1250		11,000	19,000	45,000	80,000	75,000	—	
	1500		13,000	22,000	54,000	96,000	—	—	
	1750		15,000	25,000	63,000	112,000	—	—	
	2000		17,000	28,000	71,000	—	—	—	
	150		200	1760	3200	7290	13,000	24,000	38,000
			300	2700	4910	11,200	20,100	44,600	64,200
500			4400	8090	18,300	32,900	73,000	129,000	
750			6600	12,000	27,200	48,900	108,000	62,000	
1000		8700	16,000	36,100	64,800	144,000	—		
1250		11,000	19,000	45,000	80,000	81,000	—		
1500		13,000	22,000	54,000	96,000	—	—		
1750		15,000	25,000	63,000	112,000	—	—		
2000		17,000	28,000	71,000	—	—	—		

- Notes:
- Capacity is based on 20% droop unless otherwise noted. See "Capacity Data" for equivalent capacities of other gases.
  - For pressure settings under 10 psig, inlet pressure should be limited to approximately 100 psig so the set point adjustment can be reached.
  - For pressure set point of 5 psig, the droop is 2 psig.



“Mighty Gun” Pressure Regulator

2" High Pressure Valves

Table 4 (continued). Flow Capacities in scfh of 0.6 Specific Gravity Natural Gas <sup>(1)</sup>

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)						
			3/32	1/8	3/16	1/4	3/8	1/2	
140 to 250 psig 11040 (BLUE) <sup>(2)</sup>	150	200	1760	3200	7290	13,700	24,100	31,000	
		250	2260	4100	9200	18,100	28,600	40,000	
		300	2700	4910	11,200	19,300	31,000	46,000	
		400	3600	6500	14,800	25,000	40,000	50,000	
		500	4400	8090	18,300	32,000	—	—	
		750	6600	12,000	27,200	48,000	—	—	
		1000	8700	16,000	36,100	65,000	—	—	
		1250	11,000	19,000	45,000	—	—	—	
		1500	13,000	22,000	54,000	—	—	—	
		1750	15,000	25,000	63,000	—	—	—	
		2000	17,000	28,000	—	—	—	—	
		200	250	2160	3850	8400	16,100	33,000	41,000
	300		2700	4910	11,200	20,100	36,000	52,000	
	400		3600	6500	14,800	26,500	52,000	68,000	
	500		4400	8090	18,300	33,000	61,000	—	
	750		6600	12,000	27,200	49,000	—	—	
	1000		8700	16,000	36,100	65,000	—	—	
	1250		11,000	19,000	45,000	—	—	—	
	1500		13,000	22,000	54,000	—	—	—	
	1750		15,000	25,000	63,000	—	—	—	
	2000		17,000	28,000	—	—	—	—	
	250		300	2500	4500	9900	18,500	37,000	75,000
			400	3600	6400	14,300	26,000	55,000	81,000
		500	4400	8090	18,300	33,000	64,000	95,000	
750		6600	12,000	27,200	49,000	102,000	—		
1000		8700	16,000	36,100	65,000	—	—		
1250		11,000	19,000	45,000	81,000	—	—		
1500		13,000	22,000	54,000	—	—	—		
1750		15,000	25,000	63,000	—	—	—		
2000		17,000	28,000	71,000	—	—	—		

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)						
			3/32	1/8	3/16	1/4	3/8	1/2	
240 to 500 psig 11041 (RED) <sup>(2)</sup>	250	300	2500	4500	9300	14,000	25,000	37,000	
		400	3600	6400	14,300	21,400	36,000	49,000	
		500	4400	8090	18,300	26,300	42,000	62,000	
		750	6600	12,000	27,200	37,100	57,000	—	
		1000	8700	16,000	36,100	47,400	—	—	
		1250	11,000	19,000	45,000	57,000	—	—	
		1500	13,000	22,000	54,000	—	—	—	
		1750	15,000	25,000	63,000	—	—	—	
		2000	17,000	28,000	71,000	—	—	—	
		300	350	2900	5150	11,300	18,400	31,000	45,000
			400	3500	6200	13,700	23,400	40,000	52,000
			500	4400	8090	18,300	32,000	53,000	67,000
	750		6600	12,000	27,200	48,000	80,000	—	
	1000		8700	16,000	36,100	62,000	—	—	
	1250		11,000	19,000	45,000	79,000	—	—	
	1500		13,000	22,000	54,000	—	—	—	
	1750		15,000	25,000	63,000	—	—	—	
	2000		17,000	28,000	71,000	—	—	—	
	400		450	3600	6400	14,000	25,000	47,000	67,000
			500	4400	8090	18,300	32,000	54,000	77,000
			750	6600	12,000	27,200	49,000	91,000	—
		1000	8700	16,000	36,100	65,000	—	—	
		1250	11,000	19,000	45,000	81,000	—	—	
		1500	13,000	22,000	54,000	—	—	—	
1750		15,000	25,000	63,000	—	—	—		
2000		17,000	28,000	71,000	—	—	—		
500		550	4300	7700	16,800	33,000	62,000	90,000	
		600	4900	8800	19,400	37,000	70,000	104,000	
	750	6600	12,000	27,200	49,000	88,000	140,000		
	1000	8700	16,000	36,100	65,000	130,000	—		
	1250	11,000	19,000	45,000	81,000	—	—		
	1500	13,000	22,000	54,000	97,000	—	—		
	1750	15,000	25,000	63,000	—	—	—		
	2000	17,000	28,000	71,000	—	—	—		

Notes:

- Capacity is based on 20% droop unless otherwise noted. See “Capacity Data” for equivalent capacities of other gases.
- High pressure version only.



# "Mighty Gun" Pressure Regulator

## 1" and 2" Self-Relieving Valves

Table 5. Flow Capacities in scfh of 0.6 Specific Gravity Natural Gas <sup>(1)</sup>

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)					
			3/32	1/8	3/16	1/4	3/8	1/2
5 to 20 psig 11038 (YELLOW) <sup>(2)</sup>	5 <sup>(3)</sup>	10	170	330	710	1080	2000	2150
		15	240	390	890	1500	2350	3000
		20	290	500	1160	1900	2750	3900
		30	380	690	1500	2500	3600	4900
		60	640	1170	2460	3690	5650	6900
		75	770	1410	2880	4150	6450	7490
		100	990	1800	3540	5790	7520	8150
	10	15	210	390	840	1480	2300	2930
		20	280	500	1100	1880	2700	3830
		30	380	690	1500	2460	3550	4840
		60	640	1170	2460	3690	5650	6900
		75	770	1410	2880	4150	6450	7490
		100	990	1800	3540	4790	7520	8150
		150	1420	2580	4660	5680	9980	10,800
		200	1850	3370	5620	6360	11,000	12,900
		300	2700	4880	6890	7780	13,600	—
		500	4400	6720	8570	11,600	—	—
		750	5400	8850	9000	—	—	—
		1000	5800	9500	—	—	—	—
		1250	6300	—	—	—	—	—
	1500	6600	—	—	—	—	—	
	1750	6800	—	—	—	—	—	
	2000	7600	—	—	—	—	—	
	20	30	350	600	1390	2580	4350	6290
		50	550	1000	2250	4090	7600	8000
		60	640	1170	2630	4750	7800	10,600
		100	990	1800	4070	7310	10,800	13,400
150		1420	2580	5720	10,300	13,500	14,000	
200		1850	3370	7050	10,500	14,000	14,000	
300		2700	4910	9250	10,800	14,900	—	
500		4400	7830	11,800	13,000	—	—	
750		6600	9000	12,000	—	—	—	
1000		8700	9660	—	—	—	—	
1250		10,000	—	—	—	—	—	
1500		10,400	—	—	—	—	—	
1750		12,000	—	—	—	—	—	
2000		14,000	—	—	—	—	—	

Outlet Pressure Range Spring Part No. (Color Code)	Outlet Press. Setting (psig)	Inlet Press. (psig)	Port Diameter (Inches)					
			3/32	1/8	3/16	1/4	3/8	1/2
35 to 80 psig 11040 (BLUE)	60	75	700	1230	2760	4860	8600	12,800
		100	970	1740	3910	7000	12,500	16,700
		150	1420	2580	5850	10,500	16,800	23,000
		200	1850	3370	7630	13,700	20,900	27,700
		300	2700	4910	11,200	20,100	28,100	—
		500	4400	8090	18,300	28,500	—	—
		750	6600	12,000	22,800	29,500	—	—
		1000	8700	16,000	26,800	—	—	—
		1250	11,000	19,000	—	—	—	—
		1500	13,000	22,000	—	—	—	—
	1750	15,000	25,000	—	—	—	—	
	2000	17,000	—	—	—	—	—	
	80	100	900	1630	3570	6850	12,000	17,400
		150	1410	2580	5750	10,500	20,100	26,000
		200	1850	3370	7630	13,700	25,100	31,800
		300	2700	4910	11,200	20,100	32,600	—
		500	4400	8090	18,300	30,300	—	—
		750	6600	12,000	27,200	37,400	—	—
		1000	8700	16,000	33,300	—	—	—
		1250	11,000	19,000	—	—	—	—
1500		13,000	22,000	—	—	—	—	
1750		15,000	25,000	—	—	—	—	
2000	17,000	—	—	—	—	—		
70 to 150 psig 11041 (RED)	100	150	1170	2510	5540	8310	15,500	20,300
		200	1850	3370	7630	12,000	20,100	26,700
		300	2700	4910	11,200	18,200	—	—
		500	4400	8090	18,300	—	—	—
		750	6600	12,000	—	—	—	—
		1000	8700	16,000	—	—	—	—
		1250	11,000	—	—	—	—	—
		1500	13,000	—	—	—	—	—
		1750	15,000	—	—	—	—	—
		2000	17,000	—	—	—	—	—
	125	150	1250	2330	5090	9470	15,700	20,800
		200	1830	3320	7360	13,400	23,600	31,300
		300	2700	4910	11,200	19,700	—	—
		500	4400	8090	18,300	—	—	—
		750	6600	12,000	—	—	—	—
		1000	8700	16,000	—	—	—	—
		1250	11,000	—	—	—	—	—
		1500	13,000	—	—	—	—	—
		1750	15,000	—	—	—	—	—
		2000	17,000	—	—	—	—	—
150	200	1760	3200	7020	12,900	21,400	33,300	
	300	2700	4910	11,200	17,200	—	—	
	500	4400	8090	18,300	—	—	—	
	750	6600	12,000	—	—	—	—	
	1000	8700	16,000	—	—	—	—	
	1250	11,000	—	—	—	—	—	
	1500	13,000	—	—	—	—	—	
	1750	15,000	—	—	—	—	—	
	2000	17,000	—	—	—	—	—	

- Notes:
- Capacity is based on 20% droop unless otherwise noted. See "Capacity Data" for equivalent capacities of other gases.
  - For pressure settings under 10 psig, inlet pressure should be limited to approximately 100 psig so the set point adjustment can be reached.
  - For pressure set point of 5 psig, the droop is 2 psig.



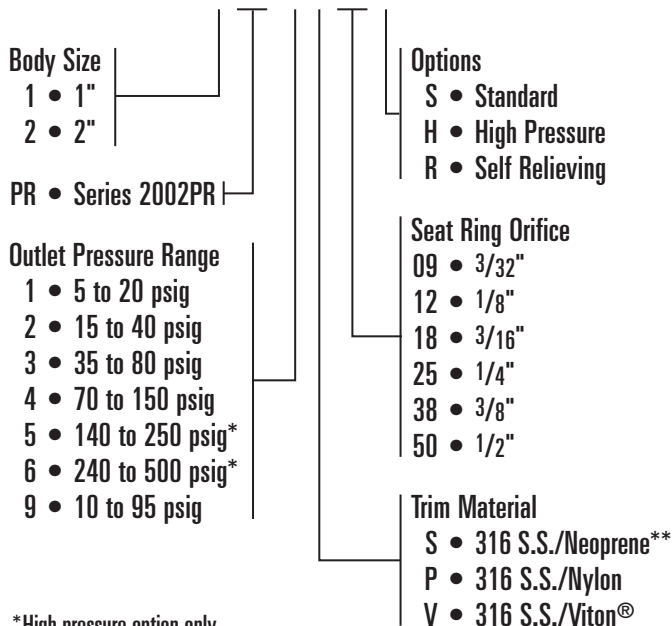


# “Mighty Gun” Pressure Regulator

## Determining the Model Number

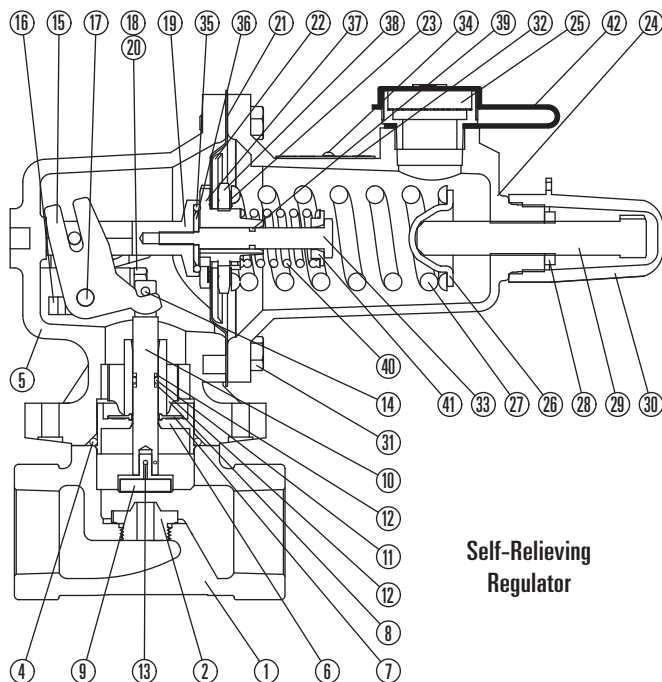
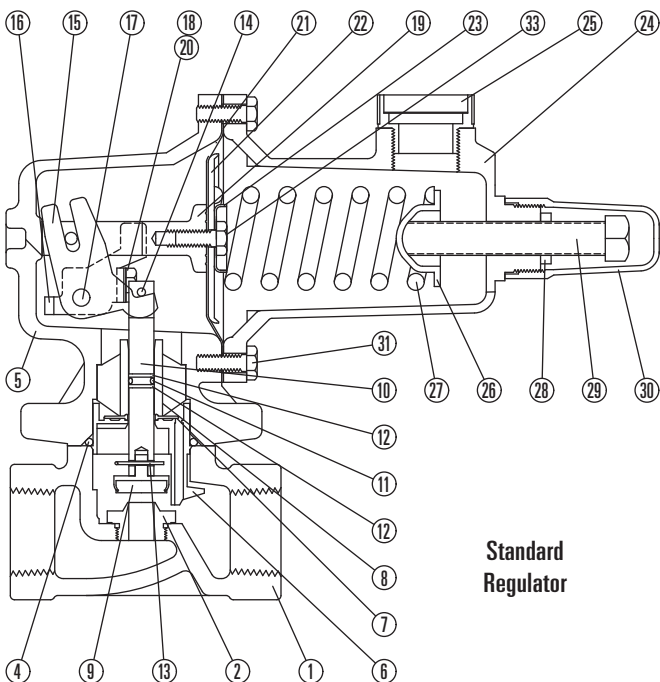
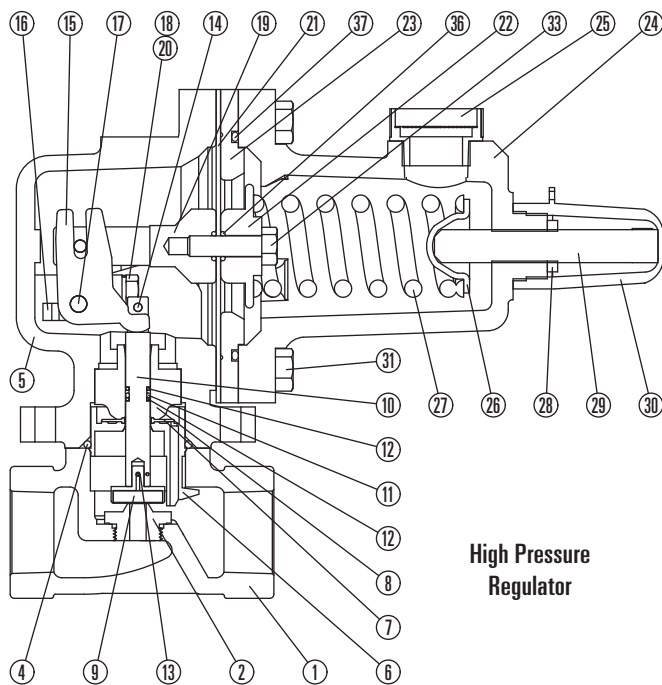
Example given: A 1" Model 2002PR Pressure Regulator with an Outlet Pressure Range of 70 to 150 psig, 316 S.S./Neoprene Nace Trim with a 1/4" Seat Ring Orifice in the standard model option.

### MODEL 1 PR-4 S 25 S



\*High pressure option only.

\*\*WellMark standard regulator option meets NACE requirements.







# WELLMARK

# Series 2002PR

## "Mighty Gun" Pressure Regulator

### Parts List

Item	Description	Qty.	Part No.		
			Standard	High Pressure	Self-Relieving
1	BODY, 1"NPT, STEEL WCB	1		40520	
	BODY, 2"NPT, STEEL WCB	1		40780	
2*	SEAT, 3/32" 316 STAINLESS STEEL	1		21069	
	SEAT, 1/8" 316 STAINLESS STEEL	1		21070	
	SEAT, 3/16" 316 STAINLESS STEEL	1		21071	
	SEAT, 1/4" 316 STAINLESS STEEL	1		21072	
	SEAT, 3/8" 316 STAINLESS STEEL	1		21073	
	SEAT, 1/2" 316 STAINLESS STEEL	1		21074	
	3	SCREW, HEX HEAD (NOT SHOWN)	2	11092	05000-5400
4*	O-RING, VITON®	1		10423	
5	DIAPHRAGM CASE, ALUMINUM (STANDARD & SELF-RELIEVING), STEEL WCB (HIGH PRESSURE)	1	40522	40769	40522
6	BOOST BODY, NYLON	1	40526	40526	31031
7	STABILIZER, NITRILE	1		11036	
8	STEM GUIDE, 316 STAINLESS STEEL	1		21059	
9*	DISK ASSEMBLY, 316 STAINLESS STEEL / NEOPRENE	1		21082	
	DISK ASSEMBLY, 316 STAINLESS STEEL / NYLON	1		21083	
10	STEM, 316 STAINLESS STEEL	1		21062	
11*	O-RING, VITON®	1		05000-0769	
12	BACK UP RING, TEFLON®	2		11087	
13	HAIR PIN CLIP, STAINLESS STEEL	1		11047	
14	PIN, STAINLESS STEEL	1		11046	
15	LEVER, STEEL PLATED	1		21061	
16	LEVER RETAINER, STEEL PLATED	1		31015	
17	LEVER PIN	1		11034	
18	LEVER CAP SCREW	2		11043	
19	POST AND PIN ASSEMBLY	1	21130	21185	21678
20	LOCK WASHER	2		11045	
21*	DIAPHRAGM, NITRILE (STANDARD), NEOPRENE (HIGH PRESSURE)	1	11037	11102	11105
22	DIAPHRAGM HEAD, STEEL PLATED (STANDARD), 410 STAINLESS STEEL (HIGH PRESSURE)	1	21078	21145	21150
	SPRING SEAT, STEEL PLATED (STANDARD & SELF-RELIEVING)	1	21078	—	11103
23	SPRING SEAT FOR 10-95 SPRING ONLY (STANDARD)	1	21395	—	—
	DIAPHRAGM LIMITER (HIGH PRESSURE)	1	—	31030	—
24	UPPER HOUSING, ALUMINUM (STANDARD & SELF-RELIEVING), STEEL WCB (HIGH PRESSURE)	1	40524	40767	40524
25	VENT ASSEMBLY, PLASTIC	1		11035	
26	UPPER SPRING SEAT, STEEL PLATED	1		21080	
27	SPRING, 5-20 PSIG, YELLOW (STANDARD & SELF-RELIEVING)	1	11038	—	11038
	SPRING, 15-40 PSIG, GREEN (STANDARD & SELF-RELIEVING)	1	11039	—	11039
	SPRING, 35-80 PSIG, BLUE (STANDARD & SELF-RELIEVING), 140-250 PSIG (HIGH PRESSURE)	1		11040	
	SPRING, 70-150 PSIG, RED (STANDARD & SELF-RELIEVING), 240-500 PSIG (HIGH PRESSURE)	1		11041	
	SPRING, 10-95 PSIG, NONE (STANDARD & SELF-RELIEVING)	1	11211	—	11211
28	JAM NUT, STEEL PLATED	1		21081	
29	ADJUSTING SCREW, STEEL PLATED	1		11042	
30	CAP, PLASTIC	1		31016	
31	CAP SCREW, STEEL PLATED	8	11044	11151	11044
32	NAME PLATE, ALUMINUM	1		21094	
33	CAP SCREW, STEEL PLATED (STD. & HIGH PRESSURE)	1	11043	11150	—
	GUIDE RETAINER (SELF-RELIEVING)	1	—	—	21147
34	RIVET	2		10075	
35*	O-RING, TEFLON® (HIGH-PRESSURE & SELF-RELIEVING)	1	—	05000-1262	05000-0967
36*	O-RING, TEFLON® (HIGH-PRESSURE)	2	—	05000-0777	—
	O-RING RETAINER (SELF-RELIEVING)	1	—	—	21149
37	DIAPHRAGM CONNECTOR (SELF-RELIEVING)	1	—	—	21146
38	NUT (SELF-RELIEVING)	1	—	—	11104
39*	O-RING, TEFLON® (SELF-RELIEVING)	1	—	—	004102P
40	SPRING (SELF-RELIEVING)	1	—	—	11121
41	SPRING SEAT (SELF-RELIEVING)	1	—	—	21148
42	RELIEF INDICATOR (SELF-RELIEVING)	1	—	—	21628

\*Recommended Spare Part