

P70 Natural Gas & Propane Regulator

- Superior regulation characteristics
- Rugged, corrosion-resistant construction
- Excellent stability and repeatability
- High flow capacity (80 SCFM)
- Self-relieving
- Standard tapped vent
- Soft relief seat for low gas consumption
- Several mounting options



The BelGAS P70 Regulators are reliable precision units designed for instrumentation and general purpose use.

Test data for these regulators show excellent performance characteristics compared with those of similar units presently on the market. These BelGAS regulators are generally superior in regulated pressure vs. flow, forward-to-reverse flow offset, supply pressure sensitivity, repeatability and stability.

Ruggedly designed and constructed, the regulators have housings of diecast aluminum. The P70 Regulator is finished with vinyl paint (which resists scratching, weathering & other physical abuse), while the P70 NACE is supplied with an epoxy paint for added corrosion protection. The P70 regulator is pressure and leak tested prior to shipment from the factory.

The full flow gauge ports are convenient for gauge installation and can also be used as an additional full flow outlet ports.



Applications

The design of these regulators is especially well suited to pilot-operated level, pressure and flow controllers and Pneumatic instruments, as well as applications such as air chunks, air spray guns, air cylinders and actuators, and a wide range of industrial pneumatic systems and equipment.

P70 Part Matrix

P070							0	0	0
	▲	▲	▲	▲	▲				Port Size
									1/4 NPT
									3/8 NPT
									1/2 NPT
									Spring Range
									PSIG BAR
									0 - 15 0 - 1.0
									0 - 30 0 - 2.1
									1 - 60 0.1 - 4.1
									2 - 100 0.2 - 6.9
									2 - 150 0.2 - 10.3
									Special Construction
									Standard
									Epoxy Paint
									NACE Construction (Wetted Parts)
									Adjusting Method
									Square Head Screw
									Knob (Handwheel)
									Relieving Options
									Relieving* * Relieving version will have no constant bleed.
									Non-Relieving

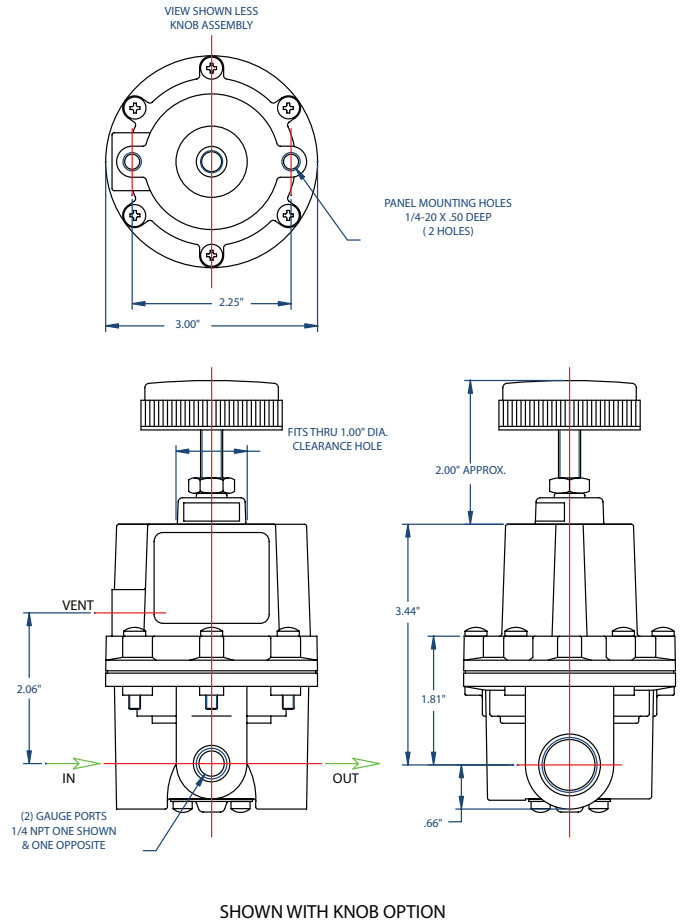
Specifications

P70		
Sensitivity	1/4" WC (6.4 mm)	
Flow Capacity	80 SCFM	2266 LPM
Effect of Supply Pressure variation (25 PSIG) on Outlet Pressure	< 0.05 PSIG	0.003 BAR
Exhaust Capacity (5 PSIG above 20 PSIG set Point)	3 SCFM Typical	85 LPM
Maximum Inlet/Supply Pressure	250 PSIG	17.2 BAR
Effect of Changes in Flow on Regulated Pressure (100 PSIG/6.9 BAR Supply)	2.5 PSIG (0.2 BAR) over flow 50 SCFM (1416 LPM)	
Output Pressure Ranges	0-15 PSIG	0-1.0 BAR
	0-30 PSIG	0-2.1 BAR
	1-60 PSIG	0.1-4.1 BAR
	2-100 PSIG	0.2-6.9 BAR
	2-150 PSIG	0.2-10.3 BAR
Temperature Range	-40 to 200 °F	-40 to 93 °C
Total Air Consumption at Maximum Output	0.1 SCFH	0.05 LPM
Port Size	1/4 NPT	
	3/8 NPT	
	1/2 NPT	
Size	3.0" x 3.0" x 6.0"	76 x 76 x 152 mm
Weight	1.41 lb.	0.6 kg
Materials of Construction	Body	Diecast aluminum with vinyl paint
	Adjusting Screw	Plated Steel
	Trim	Plated steel, brass, acetal resin
	Knob	Phenolic plastic (option)
	Spring	Music wire
	Diaphragm Material	Buna-N elastomer with polyester fabric
Mounting	Pipe, Panel, Bracket or thru Body Ports	

P70 Flow Data

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		Air Capacity (SCFH)	
	PSIG	BAR	PSIG	BAR	20% Offset	MAX
0 to 15 PSIG (0 to 1 BAR)	5	0.3	10	0.7	140	570
			15	1.0	150	690
			25	1.7	185	960
			50	3.5	300	1500
			100	6.9	360	2700
	10	0.7	15	1.0	330	690
			25	1.7	492	930
			50	3.5	750	1560
			100	6.9	1260	2700
			125	8.6	1680	3300
	15	1.0	25	1.7	570	960
			50	3.5	900	1620
100			6.9	1680	2820	
125			8.6	2100	3480	
15			1.0	110	840	
0 to 30 PSIG (0 to 2.1 BAR)	5	0.3	50	3.5	250	1800
			100	6.9	345	3300
			125	8.6	400	3600
			25	1.7	450	1320
	15	1.0	50	3.5	1140	1920
			100	6.9	1800	3900
			125	8.6	2160	4500
			35	2.4	1320	1740
	25	1.7	50	3.5	1800	2280
			100	6.9	2820	3900
			125	8.6	3300	4800
			40	2.8	1500	1800
	30	2.1	50	3.5	1560	2100
			100	6.9	3240	3900
			125	8.6	3960	4800
30			2.1	600	1080	
1 to 60 PSIG (0.07 to 4.1 BAR)	20	1.4	50	3.5	960	1620
			100	6.9	1680	2820
			125	8.6	2280	3480
			40	2.8	870	1440
	30	2.1	50	3.5	1110	1620
			100	6.9	1980	3060
			125	8.6	2700	3780
			50	3.5	1050	1800
	40	2.8	100	6.9	2100	3300
			125	8.6	2700	4080
			70	4.8	1560	2700
			100	6.9	2400	3720
60	4.2	125	8.6	3000	4500	
		50	3.5	1260	2100	
		100	6.9	2280	3960	
		125	8.6	2820	4800	
2 to 100 PSIG (0.14 to 6.9 BAR)	40	2.8	70	4.8	1800	3000
			100	6.9	3000	4140
			125	8.6	3900	5040
	60	4.2	100	6.9	2700	4050
			125	8.6	3360	4920
80	5.5	100	6.9	3000	4140	
		125	8.6	3900	5040	
		110	7.6	3300	4500	
2 to 150 PSIG (0.14 to 10.3 BAR)	50	3.5	60	4.1	870	2700
			100	6.9	1440	3720
			125	8.6	1620	5220
	75	5.2	85	5.9	1800	3780
			100	6.9	2250	4380
100	6.9	125	8.6	2760	5280	
		110	7.6	3060	4800	
			125	8.6	3660	5280

P70 Dimensions



P70 Flow Chart

