# Type 70

## **High Flow Pressure Regulator**

#### Features

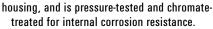
- · High flow capacity Up to 80 SCFM (2266 LPM)
- · Responds quickly to minute changes in downstream pressure
- Dampening action of aspirator tube maintains downstream pressure
- · Balanced supply valve minimizes the effect of supply pressure changes
- Bellofram's Buna-N and polvester rolling diaphragms are designed to give millions of cycles
- Honking and buzzing eliminated by action of integral baffle and aspirator tube
- Stack up construction can be disassembled and serviced without removal from air line

#### Type 70 Description

The Type 70 Regulator is specifically designed for applications that require substantial flow capacity and accurate pressure controls. Flows of 80 SCFM (2250 LPM) can be attained.

Downstream pressure can be set within 0.25 in. (6.3mm) of water column and is accurately maintained under varying flow conditions with the help of an aspirator tube which adjusts the air supply in accordance with the flow velocity. A balanced supply valve, utilizing a rolling diaphragm, makes the regulator virtually immune to changes in supply pressure.

> The Type 70 has a rugged precision



The regulator housing is finished with vinyl paint which resists scratching, weathering and other physical abuse.



Atmosphere

Supply Pressure

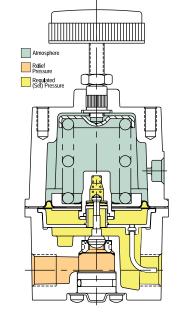
Regulated

# **High Flow Back Pressure Regulator**

Type 70BP

#### Features

- High flow Capacity Up to 50 SCFM (1400 LPM)
- Responds quickly to minute changes in upstream pressure
- Bellofram's Buna-N and polyester rolling diaphragms are designed to give millions of cycles
- Stack up construction can be disassembled and serviced without removal from air line





The Type 70 Back Pressure Regulator functions as a high flow, high precision pneumatic relief valve with an adjustable setpoint. The Type 70BP can be used in place of a standard relief valve to improve pressure control while maintaining protection against over pressurization, as in supply pressure lines to instruments and other control devices.

It is most often used in conjunction with a diaphragm-operated

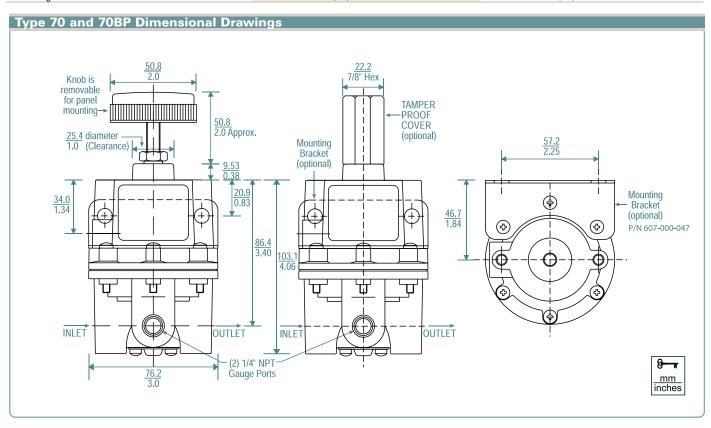
valve and bleed orifice as a compressor controller. Excess compressor pressure is relieved through the regulator to actuate the intake restricting valve. When the regulator is shut off, downstream air escapes through the bleed orifice, allowing the restricting valve to open.



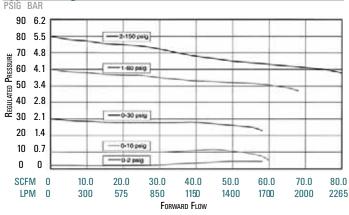
**Contact Us About NACE Compatible T70 Regulator** "No Yellow Metals"



	Type 70	Type 70BP
Sensitivity	1/4" (6.4 mm) Water Column	1/8" (3.2 mm) Water Column
Flow Capacity	40 (1113 LPM) 50 (1416 LPM) or 80 SCFM (2266 LPM)	50 SCFM (1416 LPM)
Effect of Supply Pressure variation (25 psig) on Outlet Pressure	< 0.025 PSIG (1.7 BAR)	N/A
Exhaust Capacity (5 above psig 20 psig set point)	4 SCFM (113 LPM)	N/A
Maximum Supply Pressure	250 PSIG (17.2 BAR)	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) (3/8 NPT, 0-30 PSIG / 0-2.1 BAR range, 15 PSIG / 1 BAR set point)	N/A
Output Pressure Ranges (Type 70)	0-2 PSIG (0-0.1 BAR) 0-10 PSIG (0-0.7 BAR) 0-30 PSIG (0-2.1 BAR) 1-60 PSIG (0.1-4.1 BAR) 2-150 PSIG (0.1-10.3 BAR) 3-200 PSIG (0.2-13.8 BAR)	N/A
Set Point Ranges (Type 70BP)	N/A	0-2 PSIG (0-0.1 BAR) 0-10 PSIG (0-0.7 BAR) 0-30 PSIG (0-2.1 BAR) 0-60 PSIG (0-4.1 BAR) 0-150 PSIG (0-10.3 BAR)
Total Air Consumption @ Maximum Output	from 1.0 to 12.5 SCFH (0.5-6 LPM)	N/A
Temperature Range	-40° to 200°F (-40° to 93°C)	-40° to 200°F (-40° to 93°C)
Port Size	1/4, 3/8, 1/2 NPT, BSPT	1/4, 3/8, 1/2 NPT, BSPT
Materials of Construction	Body: Diecast aluminum with vinyl paint Adjusting Screw: Plated steel Trim: Plated steel, brass, acetal resin Diaphragm: Buna-N with polyester fabric Knob: Phenolic plastic Spring: Music wire	Body: Diecast aluminum with vinyl paint Adjusting Screw: Plated steel Trim: Acetal, brass, plated steel, nitrile Diaphragm: Buna-N with polyester fabric Knob: Phenolic plastic Spring: Music wire
Size	3.0" X 3.0" X 6.0" (76 X 76 X 152 mm)	3.0" X 3.0" X 6.0" (76 X 76 X 152 mm)
Weight	1.41 lb. (0.6 kg)	1.5 lb. (0.7 kg)
Preset Pressure	No	No
Tamper Resistant Cover	Yes	Yes
Mounting	Pipe, panel, or bracket	Pipe, panel, or bracket



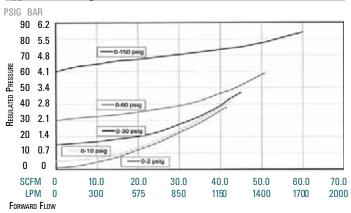
#### Type 70: Regulated Pressure VS. Flow



Part Number   Port Size   BAR   PSIG	Type 70	and 70BP Ord	erina Info	rmation					
Part Number   (NPT)   BAR   PSIG		Port Circ Set Point Range							
T70    960-129-000		Part Number							
T70    960-174-000   3/8   0-0.1   0-2     960-162-000   1/2   0-0.1   0-2     960-130-000   1/4   0-0.7   0-10     960-131-000   3/8   0-0.7   0-10     960-163-000   1/2   0-0.7   0-10     960-089-000   3/8   0-2.1   0-30     960-090-000   1/4   0-2.1   0-30     960-091-000   3/8   0.1-4.1   1-60     960-092-000   1/4   0.1-4.1   1-60     960-093-000   3/8   0.1-4.1   1-60     960-093-000   3/8   0.1-10.3   2-150     960-161-000   1/2   0.1-4.1   1-60     960-152-000   1/4   0.1-10.3   2-150     960-153-000   3/8   0.2-13.8   3-200     960-153-000   3/8   0.2-13.8   3-200     960-191-000   1/2   0.2-13.8   3-200     960-191-000   1/4   0-0.1   0-2     960-191-000   1/4   0-0.1   0-2     960-193-000   3/8   0-0.1   0-2     960-194-000   1/4   0-0.7   0-10     960-195-000   3/8   0-0.7   0-10     960-196-000   1/2   0-0.7   0-10     960-196-000   1/2   0-0.7   0-10     960-197-000   1/4   0-2.1   0-30     960-199-000   1/4   0-2.1   0-30     960-199-000   1/4   0-4.1   0-60     960-201-000   3/8   0-4.1   0-60     960-202-000   1/2   0-4.1   0-60     960-203-000   1/4   0-10.3   0-150     960-204-000   3/8   0-10.3   0-150     960-2		960-129-000	1/4						
T70    960-162-000									
T70    960-130-000									
T70    960-131-000   3/8   0-0.7   0-10     960-163-000   1/2   0-0.7   0-10     960-089-000   3/8   0-2.1   0-30     960-090-000   1/4   0-2.1   0-30     960-159-000   1/2   0-2.1   0-30     960-091-000   3/8   0.1-4.1   1-60     960-190-000   1/4   0.1-4.1   1-60     960-160-000   1/2   0.1-4.1   1-60     960-093-000   3/8   0.1-10.3   2-150     960-193-000   3/8   0.1-10.3   2-150     960-161-000   1/2   0.1-10.3   2-150     960-152-000   1/4   0.2-13.8   3-200     960-152-000   3/8   0.2-13.8   3-200     960-191-000   1/4   0-0.1   0-2     960-191-000   1/4   0-0.1   0-2     960-192-000   3/8   0-0.1   0-2     960-193-000   1/2   0-0.1   0-2     960-194-000   1/4   0-0.7   0-10     960-195-000   3/8   0-0.7   0-10     960-196-000   1/2   0-0.7   0-10     960-197-000   1/4   0-2.1   0-30     960-198-000   3/8   0-2.1   0-30     960-199-000   1/2   0-2.1   0-30     960-201-000   3/8   0-4.1   0-60     960-201-000   3/8   0-4.1   0-60     960-202-000   1/4   0-10.3   0-150     960-203-000   1/4   0-10.3   0-150     960-204-000   3/8   0-10.3   0-150									
T70    960-163-000									
T708    960-089-000   3/8   0-2.1   0-30     960-090-000   1/4   0-2.1   0-30     960-159-000   1/2   0-2.1   0-30     960-091-000   3/8   0.1-4.1   1-60     960-092-000   1/4   0.1-4.1   1-60     960-160-000   1/2   0.1-4.1   1-60     960-093-000   3/8   0.1-10.3   2-150     960-094-000   1/4   0.1-10.3   2-150     960-161-000   1/2   0.1-10.3   2-150     960-152-000   1/4   0.2-13.8   3-200     960-153-000   3/8   0.2-13.8   3-200     960-153-000   3/8   0.2-13.8   3-200     960-191-000   1/2   0.2-13.8   3-200     960-191-000   1/4   0-0.1   0-2     960-192-000   3/8   0-0.1   0-2     960-193-000   1/2   0-0.1   0-2     960-194-000   1/4   0-0.7   0-10     960-195-000   3/8   0-0.7   0-10     960-196-000   1/2   0-0.7   0-10     960-196-000   1/2   0-0.7   0-10     960-196-000   1/2   0-2.1   0-30     960-199-000   1/4   0-2.1   0-30     960-199-000   1/4   0-4.1   0-60     960-201-000   3/8   0-4.1   0-60     960-202-000   1/2   0-4.1   0-60     960-203-000   1/4   0-10.3   0-150     960-204-000   3/8   0-10.3   0-150					0-10				
T708    960-090-000				0-2.1	0-30				
T70    960-159-000		960-090-000		0-2.1	0-30				
960-091-000 3/8 0.1-4.1 1-60 960-092-000 1/4 0.1-4.1 1-60 960-160-000 1/2 0.1-4.1 1-60 960-093-000 3/8 0.1-10.3 2-150 960-094-000 1/4 0.1-10.3 2-150 960-161-000 1/2 0.1-10.3 2-150 960-152-000 1/4 0.2-13.8 3-200 960-153-000 3/8 0.2-13.8 3-200 960-191-000 1/2 0.2-13.8 3-200 960-191-000 1/4 0-0.1 0-2 960-192-000 3/8 0-0.1 0-2 960-193-000 1/2 0-0.1 0-2 960-194-000 1/2 0-0.1 0-2 960-195-000 3/8 0-0.7 0-10 960-195-000 3/8 0-0.7 0-10 960-196-000 1/2 0-0.7 0-10 960-197-000 1/4 0-2.1 0-30 960-197-000 1/4 0-2.1 0-30 960-197-000 1/4 0-2.1 0-30 960-199-000 3/8 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-200-000 1/4 0-4.1 0-60 960-201-000 3/8 0-4.1 0-60 960-202-000 1/2 0-4.1 0-60 960-203-000 1/4 0-10.3 0-150	T70	960-159-000		0-2.1	0-30				
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960-152-000 1/4 0.2-13.8 3-200 960-153-000 3/8 0.2-13.8 3-200 960-164-000 1/2 0.2-13.8 3-200 960-191-000 1/4 0-0.1 0-2 960-192-000 3/8 0-0.1 0-2 960-193-000 1/2 0-0.1 0-2 960-194-000 1/4 0-0.7 0-10 960-195-000 3/8 0-0.7 0-10 960-196-000 1/2 0-0.7 0-10 960-197-000 1/4 0-2.1 0-30 960-198-000 3/8 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-201-000 3/8 0-4.1 0-60 960-202-000 1/2 0-4.1 0-60 960-203-000 1/4 0-10.3 0-150		960-094-000	1/4	0.1-10.3	2-150				
960-153-000 3/8 0.2-13.8 3-200 960-164-000 1/2 0.2-13.8 3-200 960-191-000 1/4 0-0.1 0-2 960-192-000 3/8 0-0.1 0-2 960-193-000 1/2 0-0.1 0-2 960-194-000 1/4 0-0.7 0-10 960-195-000 3/8 0-0.7 0-10 960-196-000 1/2 0-0.7 0-10 960-197-000 1/4 0-2.1 0-30 960-198-000 3/8 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-199-000 1/2 0-2.1 0-30 960-201-000 3/8 0-4.1 0-60 960-202-000 1/2 0-4.1 0-60 960-203-000 1/4 0-10.3 0-150		960-161-000	1/2	0.1-10.3	2-150				
960-164-000         1/2         0.2-13.8         3-200           960-191-000         1/4         0-0.1         0-2           960-192-000         3/8         0-0.1         0-2           960-193-000         1/2         0-0.1         0-2           960-194-000         1/4         0-0.7         0-10           960-195-000         3/8         0-0.7         0-10           960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-152-000	1/4	0.2-13.8	3-200				
960-164-000         1/2         0.2-13.8         3-200           960-191-000         1/4         0-0.1         0-2           960-192-000         3/8         0-0.1         0-2           960-193-000         1/2         0-0.1         0-2           960-194-000         1/4         0-0.7         0-10           960-195-000         3/8         0-0.7         0-10           960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-153-000	3/8	0.2-13.8	3-200				
960-192-000         3/8         0-0.1         0-2           960-193-000         1/2         0-0.1         0-2           960-194-000         1/4         0-0.7         0-10           960-195-000         3/8         0-0.7         0-10           960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-164-000		0.2-13.8	3-200				
960-193-000         1/2         0-0.1         0-2           960-194-000         1/4         0-0.7         0-10           960-195-000         3/8         0-0.7         0-10           960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-191-000	1/4	0-0.1	0-2				
960-194-000         1/4         0-0.7         0-10           960-195-000         3/8         0-0.7         0-10           960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-192-000	3/8	0-0.1	0-2				
960-195-000         3/8         0-0.7         0-10           960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-193-000	1/2	0-0.1	0-2				
960-196-000         1/2         0-0.7         0-10           960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-194-000	1/4	0-0.7	0-10				
T70BP         960-197-000         1/4         0-2.1         0-30           960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-195-000	3/8	0-0.7	0-10				
T70BP         960-198-000         3/8         0-2.1         0-30           960-199-000         1/2         0-2.1         0-30           960-200-000         1/4         0-4.1         0-60           960-201-000         3/8         0-4.1         0-60           960-202-000         1/2         0-4.1         0-60           960-203-000         1/4         0-10.3         0-150           960-204-000         3/8         0-10.3         0-150		960-196-000	1/2	0-0.7	0-10				
960-199-000 1/2 0-2.1 0-30 960-200-000 1/4 0-4.1 0-60 960-201-000 3/8 0-4.1 0-60 960-202-000 1/2 0-4.1 0-60 960-203-000 1/4 0-10.3 0-150 960-204-000 3/8 0-10.3 0-150		960-197-000	1/4	0-2.1	0-30				
960-200-000     1/4     0-4.1     0-60       960-201-000     3/8     0-4.1     0-60       960-202-000     1/2     0-4.1     0-60       960-203-000     1/4     0-10.3     0-150       960-204-000     3/8     0-10.3     0-150	T70BP	960-198-000	3/8	0-2.1	0-30				
960-201-000     3/8     0-4.1     0-60       960-202-000     1/2     0-4.1     0-60       960-203-000     1/4     0-10.3     0-150       960-204-000     3/8     0-10.3     0-150		960-199-000	1/2	0-2.1	0-30				
960-202-000     1/2     0-4.1     0-60       960-203-000     1/4     0-10.3     0-150       960-204-000     3/8     0-10.3     0-150		960-200-000	1/4	0-4.1	0-60				
960-203-000 1/4 0-10.3 0-150 960-204-000 3/8 0-10.3 0-150		960-201-000	3/8	0-4.1	0-60				
960-204-000 3/8 0-10.3 0-150		960-202-000	1/2	0-4.1	0-60				
, , , , , , , , , , , , , , , , , , , ,		960-203-000	1/4	0-10.3	0-150				
960-205-000 1/2 0-10.3 0-150		960-204-000	3/8	0-10.3	0-150				
		960-205-000	1/2	0-10.3	0-150				

Options						
	<ul><li>= option is available</li><li>s = option is standard</li></ul>	TYPE 70	TYPE 70BP			
2	Non-Relieving	•				
3	Knob	S	S			
3	Sq. Head Adj. Screw	•	•			
5	Epoxy Coating	•	•			
6	Tapped Vent	•				
7	Mounting Bracket	•	•			
8	Pressure Gauge	•	•			
9	Tamper Resistant Cover	•	•			
10	Low Bleed	•				
11	Check Valve	•				

#### Type 70BP: Regulated Pressure VS. Flow



Ту	Type 70 and 70BP Option Ordering Matrix									
Repl	Replace last three digits of part number with digits from table below.									
Optio	on 2 3			5	6	7	8	9	10	11
2	Non-Relieving	002	032	052	062	072	082	092		112
3	Sq. Head Adj. Screw 003			053	063	073	083		103	113
5	Epoxy Finish			005	065	075	085	095	105	115
6	Tapped Vent				006	076	086	096	106	116
7	Mounting Bracket				007	087	097	107	117	
8	Pressure Gauge 008 098						108	118		
9	Tamper-Resistant Cover 009 109						119			
10	Low Bleed 010						110			
11	Check Valve						011			

#### Options and Accessories

#### **Non-Relieving**

Used in applications where it is desirable to relieve pressure downstream of the regulator, for some constant flow applications, and where the gas flowing through the regulator must not escape at the regulator. Non-relieving regulators should not be used for low or no flow applications.

### **Corrosive Resistant Epoxy Finish**

An epoxy paint applied to the body of the regulator exterior surfaces to provide increased corrosion resistance.

#### **Tapped Vent**

Allows installation of plumbing to capture exhaust air.

#### **Mounting Bracket**

Steel (dichromate finish) bracket for side mounting.

#### **Pressure Gauge**

Dual scale 2 in. (50.8 mm) gauges. Ranges include 0-30 PSIG (0-200 kPa), 0-60 PSIG (0-400 kPa), 0-100 PSIG (0-700 kPa) and 0-160 PSIG (0-1100 kPa). When specified with regulator, the correct range will be supplied.

#### **Tamper Resistant Cover**

An aluminum tubular cover placed over a slotted head adjusting screw and screwed onto the bonnet of the regulator with a wrench. Prevents ordinary hand adjustments.

#### Low Bleed

Reduces steady-state air consumption by approximately 50%.

#### **Check Valve**

Allows quick dumping of output line pressure through the supply air line when the supply is shut down.