



Type 41-1
Type 41-2
Precision Air
Regulators

SUPPLY 250
SELLOFRAM CORPORATION
SECSION CONTROLS DIVISION
NEWELL, WY U.S.A.

150 9002 certified

Precision ontrol evices

-TYPE 41-

PSI KPA 0-60 0-400 ### 0-60 0-60 0-60 ### 0-60



INGENIEROS ASOCIADOS DE CONTROL S.L.

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TYPE 41-1 AND TYPE 41-2 PRECISION AIR REGULATORS

FEATURES

- Superior regulation characteristics
- Rugged, corrosion-resistant construction
- Excellent stability and repeatability
- Self-relieving of excess down stream pressure
- Low droop at high flow
- Mounting options available



The Type 41 regulators are designed for applications requiring high flow capacity, low droop, high accuracy, and fine adjustment sensitivity. The use of Bellofram's rolling diaphragm provides greater sensitivity and improved accuracy. In addition, Type 41 regulators offer reduced over-all size and several mounting options, providing direct interchangeability with more expensive competitors' units.

Ruggedly designed and constructed, the Type 41 regulators have housings of precision-cast aluminum. They are pressure tested, and are chromate treated for internal corrosion resistance. Every regulator is finished with vinyl paint which resists scratching, weathering and other physical abuse.

Careful design and quality materials throughout assure long, trouble-free operation in the most difficult industrial environments. A rubberized, soft-seat valve stem provides stability and "forgives" dirt and other foreign matter. An aspirator maintains downstream pressure and compensates for droop when high flow occurs. The gauge port is convenient for gauge installation and can also be used as an additional full flow outlet.

The design of these regulators is especially well suited for panel applications due to ease of mounting (only one panel hole required), small size, adjustment sensitivity (32 threads per inch on the adjusting screw), and knob.

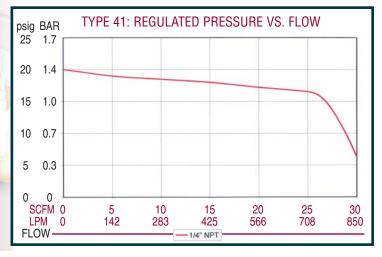
MODELS

The Type 41 comes in two versions, Type 41-1 and Type 41-2. These two regulators offer the same performance in two slightly different packages.

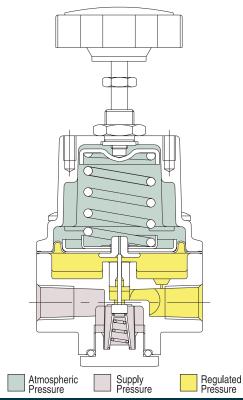
TYPE 41-1: This unit comes standard with $\frac{1}{2}$ " NPT ports and a knob, and can be panel mounted using either the center nut or the threaded shoulder holes, spaced 1.5 in. (38.1 mm) center-to-center.

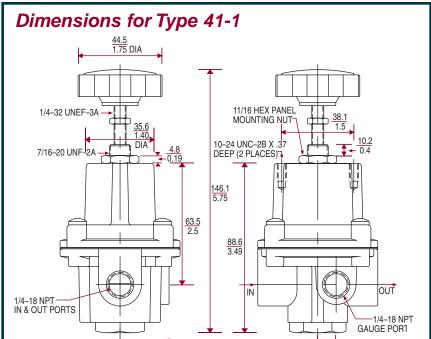
TYPE 41-2: This unit comes standard with ¼" NPT ports, a knob and a bonnet vent port which can be tapped for a ¼" NPT fitting if desired. It can be panel mounted using either the center nut or the threaded shoulder holes, spaced 1.25 in. (32.7 mm) center-to-center.





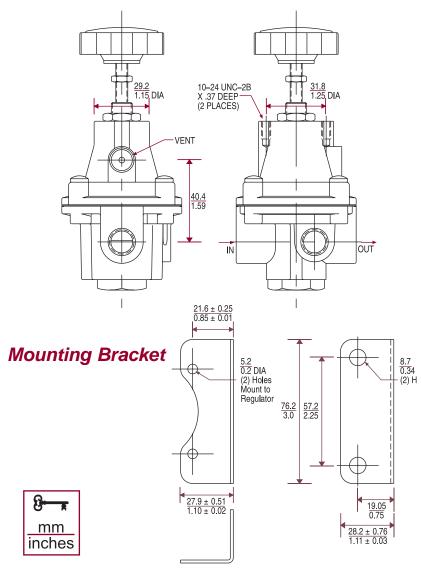
Sensitivity 1" Water Column (2.5 cm) Effect of Supply Pressure variation (25 psig) on Outlet Pressure Exhaust Capacity (5 psig above 20 psig set point) Max Supply Pressure Flow Capacity at 100 psig (6.9 BAR) supply and 20 psig (1.4 BAR) outlet Effect of Changes in Flow on Regulated Pressure (100 psig / 6.9 BAR Supply) Output Pressure Ranges 1 psig (0.07 BAR) over flow of 10 SCFM (0-30 psig / 0-2.1 BAR range, 1/4" NPT, 20 psig / 1.4 BAR set point) Output Pressure Ranges 0-2 psig (0-0.14 BAR) 0-10 psig (0-0.69 BAR) 0-30 psig (0-2.1 BAR) 0-60 psig (0-4.1 BAR) 0-100 psig (0-6.9 BAR) Total Air Consumption Maximum Output Port Size 1/4" 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 Mounting Options Pipe, panel, or bracket					
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Effect of Supply Pressure variation (25 psig)					
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Flow Capacity at 100 psig (6.9 BAR) supply and 20 psig (1.4 BAR) outlet Effect of Changes in Flow on Regulated Pressure (100 psig / 6.9 BAR Supply) Output Pressure Ranges O-2 psig (0-0.14 BAR) O-10 psig (0-0.69 BAR) O-30 psig (0-2.1 BAR) O-60 psig (0-4.1 BAR) O-100 psig (0-6.9 BAR) Total Air Consumption Maximum Output Port Size Materials of Construction Flow of 10 SCFM (0-30 psig / 0-2.1 BAR range, 1/4" NPT, 20 psig / 1.4 BAR set point) O-10 psig (0-0.69 BAR) O-10 psig (0-6.9 BAR) O-100 psig (0-6.9 BAR) Total Air Consumption G SCFH (2.8 LPM) (20 psi / 1.4 BAR output) Port Size 1/4" 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	above 20 psig set point)	(2.8 – 12.7 LPM)			
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Effect of Changes in Flow on Regulated Pressure (100 psig / 6.9 BAR Supply) Output Pressure Ranges Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig (0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Ranges Output Pressure Range, 1/4" NPT, 20 psig / 0-0.14 BAR) Output Pressure Ranges Output Pressure Ra	(6.9 BAR) supply and	25 SCFM (700 LPM)			
on Regulated Pressure (100 psig / 6.9 BAR Supply) O-2.1 BAR range, 1/4" NPT, 20 psig / 1.4 BAR set point) Output Pressure Ranges O-2 psig (0-0.14 BAR) O-10 psig (0-0.69 BAR) O-30 psig (0-2.1 BAR) O-60 psig (0-4.1 BAR) O-100 psig (0-6.9 BAR) Total Air Consumption @ Maximum Output Port Size 1/4" 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	20 psig (1.4 BAR) outlet				
(100 psig / 6.9 BAR Supply) Output Pressure Ranges O-2 psig (0-0.14 BAR) O-10 psig (0-0.69 BAR) O-30 psig (0-2.1 BAR) O-60 psig (0-4.1 BAR) O-100 psig (0-6.9 BAR) Total Air Consumption Maximum Output Port Size Materials of Construction 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	Effect of Changes in Flow	. •			
20 psig / 1.4 BAR set point) Output Pressure Ranges 0-2 psig (0-0.14 BAR) 0-10 psig (0-0.69 BAR) 0-30 psig (0-2.1 BAR) 0-60 psig (0-4.1 BAR) 0-100 psig (0-6.9 BAR) Total Air Consumption @ Maximum Output Port Size 1/4" 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	on Regulated Pressure	` ' "			
Output Pressure Ranges 0-2 psig (0-0.14 BAR) 0-10 psig (0-0.69 BAR) 0-30 psig (0-2.1 BAR) 0-60 psig (0-4.1 BAR) 0-100 psig (0-6.9 BAR) Total Air Consumption 6 SCFH (2.8 LPM) (20 psi / 1.4 BAR output) Port Size 1/4" 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	(100 psig / 6.9 BAR Supply)	0-2.1 BAR range, 1/4" NPT,			
0-10 psig (0-0.69 BAR) 0-30 psig (0-2.1 BAR) 0-60 psig (0-4.1 BAR) 0-100 psig (0-6.9 BAR) Total Air Consumption @ Maximum Output Port Size 1/4" 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		20 psig / 1.4 BAR set point)			
0-30 psig (0-2.1 BAR) 0-60 psig (0-4.1 BAR) 0-100 psig (0-6.9 BAR) Total Air Consumption Maximum Output Port Size 1/4" 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	Output Pressure Ranges	,			
O-60 psig (0-4.1 BAR) O-100 psig (0-6.9 BAR) Total Air Consumption Maximum Output Port Size 1/4" 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		. • ,			
O-100 psig (0-6.9 BAR) Total Air Consumption @ Maximum Output Port Size 1/4" 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		0-30 psig (0-2.1 BAR)			
Total Air Consumption @ Maximum Output Port Size 1/4" 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		0-60 psig (0-4.1 BAR)			
@ Maximum Output (20 psi / 1.4 BAR output) Port Size 1/4" 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					
Port Size 1/4" NPT, BSPT 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		6 SCFH (2.8 LPM)			
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	@ Maximum Output	(20 psi / 1.4 BAR output)			
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		1/4" NPT, BSPT			
Adjusting Screw: Plated steel Trim: Plated steel, brass, acetal resin Diaphragm: Buna-N with polyester fabric Knob: Phenolic plastic Spring: Music wire	Materials of Construction	,			
Trim: Plated steel, brass, acetal resin Diaphragm: Buna-N with polyester fabric Knob: Phenolic plastic Spring: Music wire		with vinyl paint			
acetal resin Diaphragm: Buna-N with polyester fabric Knob: Phenolic plastic Spring: Music wire		, ,			
Diaphragm: Buna-N with polyester fabric Knob: Phenolic plastic Spring: Music wire		Trim: Plated steel, brass,			
with polyester fabric Knob: Phenolic plastic Spring: Music wire		acetal resin			
Knob: Phenolic plastic Spring: Music wire		Diaphragm: Buna-N			
Spring: Music wire					
		Knob: Phenolic plastic			
Mounting Options Pipe, panel, or bracket		Spring: Music wire			
	Mounting Options	Pipe, panel, or bracket			





63.5 2.5

Dimensions for Type 41-2 (same as 41-1 except where indicated)



ORDERING INFORMATION

		Port			
		Size	Set Point Range		
Part Number		(NPT)	BAR	psig	
T-41-1	960-113-000	1/4"	0-0.14	0-2	
	960-114-000		0-0.69	0-10	
	960-170-000		0-2.1	0-30	
	960-171-000		0-4.1	0-60	
	960-172-000		0-6.9	0-100	
T-41-2	960-115-000	1/4"	0-0.14	0-2	
–	960-116-000		0-0.69	0-10	
	960-181-000		0-2.1	0-30	
	960-182-000		0-4.1	0-60	
	960-183-000		0-6.9	0-100	

□PTI□NS •= option is available					
Туре		41-1	41-2		
1	Fluorocarbon Pintle	•	•		
2	Non-Relieving	•	•		
5	Epoxy Coating	•	•		
6	Tapped Vent	n/a	•		
7	Mounting Bracket	•	•		
8	Pressure Gauge	•	•		

<u>OF</u>	PTION	1	2	5	6	7	8
1	Fluorocarbon Pintle	001	021	051	061	071	081
2	Non-Relieving		002	052	062	072	082
5	Epoxy Coating			005	065	075	085
6	Tapped Vented				006	076	086
7	Mounting Bracket					007	087
8	Pressure Gauge						800



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REGULATOR OPTIONS & ACCESSORIES

FLUOROCARBON PINTLE

A special elastomeric pintle used where elements in the supply air, such as flame retardant synthetic lubricants, are particularly destructive to ordinary pintle material.

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 outside surface of the regulator to provide increased resistance to corrosive environments.

TAPPED VENT (41-2 only)

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.

