Type 800
Subminiature Precision Air Regulator
Precise air pressure regulation for applications where space is limited

The Type 800 is a compact air regulator that supplies precise air pressure control for applications where space is limited. This high quality unit, available in five pressure ranges up to 100 psig (6.8 BAR), offers the same dependable performance as ControlAir's larger precision air pressure regulators. An oversized supply valve provides the Type 800 with significantly higher flow capacities than competitive units of similar size. The Type 800 is also available with a variety of convenient port sizes and mounting options. Corrosion resistant materials, lightweight construction and low cost, combine to make the Type 800 ideal for any application where space is at a premium.

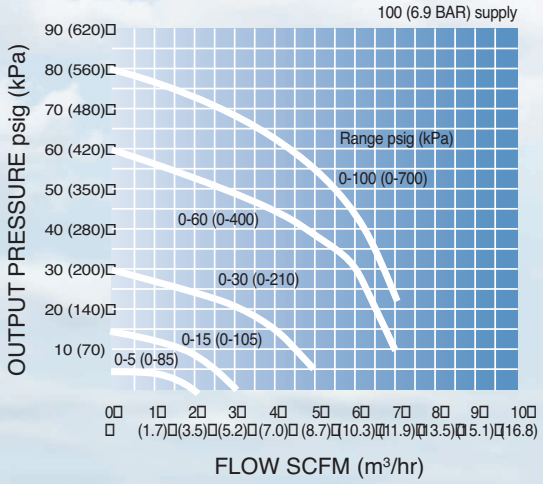
Features

- **Precision Control** Provides highly accurate air pressure regulation in a small package
- **High Flow Capacity** Flows up to 5 SCFM
- **Stable Output** Vibration damping mechanism keeps regulator stable under changing operating conditions
- **Repeatable**
  Returns to set point when supply pressure is turned off and on
- **10-32, M5 and 1/16" NPT Porting**
- **Self Relieving**

Applications

The Type 800 is recommended for applications such as ink pressure control systems, control panels, hand held calibration and analyzing equipment as well as the operation of air cylinders and pneumatic logic systems.

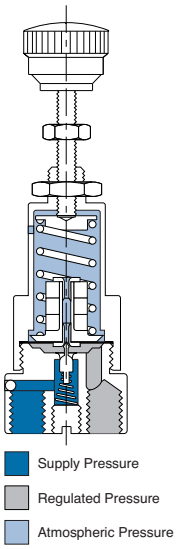
Flow Characteristics



Type 800 Highly accurate air pressure regulation in a small package

Specifications

Sensitivity:	1/2" (12.7 mm) water
Flow Capacity:	5 SCFM (150 Nl/min) at 100 psig (6.8 BAR) supply and 30 psig (2 BAR) set point
Maximum Supply Pressure:	250 psig (17 BAR)
Exhaust Capacity:	0.4 SCFM (12 Nl/min) at a downstream pressure of 10 psig (0.7 BAR) above the set point
Operating Temperatures:	-40° F to +160° F (-40° C to +71° C)
Air Consumption:	3.0 SCFH (1.5 Nl/min) maximum at 100 psig (6.8 BAR) supply, 30 psig (2 BAR) set point
Effect of Supply Pressure Variation on the Output:	Less than 0.1 psi per 5 psi change in supply
Materials:	Anodized aluminum, brass, stainless steel, viton
Output Pressure Ranges:	psig: 0-5, 0-15, 0-30, 0-60, 0-100 BAR: 0-0.3, 0-1, 0-2, 0-4, 0-6.8
Porting:	1/16" NPT or 10-32 supply and output, #10-32 UNF - gauge, M5 - supply, output and gauge
Mounting:	pipe or panel
Weight:	1.8 oz. (51 grams)

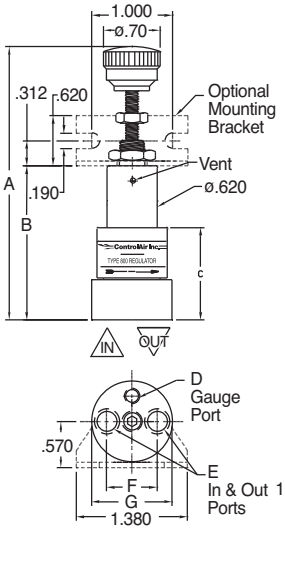


Dimensions

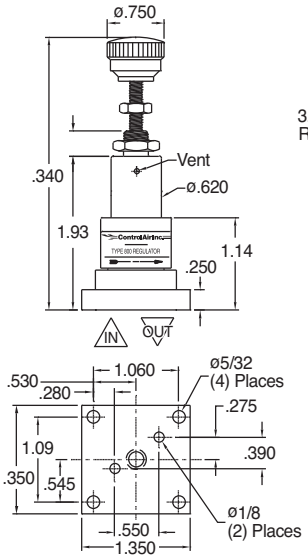
	Model 800 1/16" NPT porting	Model 800 M5 porting	Model 800 10-32
A	3.40 (86.4)	3.30 (83.8)	3.30 (83.8)
B	1.93 (49.0)	1.83 (46.5)	1.83 (46.5)
C	1.14 (29.0)	1.04 (26.4)	1.04 (26.4)
D	#10-32 UNF-2B	M5	#10-32 UNF-2B
E	(2) 1/16-27	(2) M5	(2) #10-32 UNF-2B
F	0.625 (15.9)	0.560 (14.2)	0.560 (14.2)
G	1.00 (25.4)	0.88 (22.4)	0.88 (22.4)

Drawing downloads available at www.controlair.com

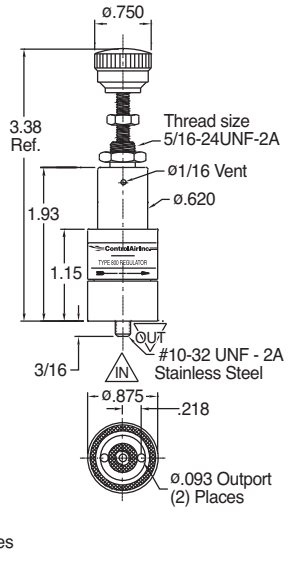
Model 800 Standard



Model 820 Manifold



Model 830 Threaded Post



Ordering Use this coding system to order

Model

800 – [ ] [ ]

Port Size

- **A** 1/16" NPT
- **B** M5
- **C** 10-32

820 / **830** – [X] [ ]

Output	psig	BAR
A	0-5	0-0.3
B	0-15	0-1.0
C	0-30	0-2.0
D	0-60	0-4.0
E	0-100	0-6.8

Options

N Non-Relieving
For constant flow or downstream pressure relief applications

X ATEX 2014/34/EU

Accessories

Mounting Bracket	Zinc-plated steel for side mounting P/N 445-707-043
Barbed Fittings	Allows connection to 1/8" tubing
1/16" NPT	P/N 445-748-094
10-32 Ports	P/N 545-748-037

Each port requires separate fitting

Warranty ControlAir LLC products are warranted to be free from defects in materials and workmanship for a period of eighteen months from the date of sale, provided said products are used according to ControlAir LLC recommended usages. ControlAir LLC's liability is limited to the repair, purchase price refund, or replacement in kind, at ControlAir LLC's sole option, of any products proved defective. ControlAir LLC reserves the right to discontinue manufacture of any products or change products materials, designs or specifications without notice. Note: ControlAir does not assume responsibility for the selection, use, or maintenance of any product. Responsibility for the proper selection, use, and maintenance of any ControlAir product remains solely with the purchaser and end user. Drawing downloads available at www.controlair.com

ControlAir
8 Columbia Drive / Amherst, NH 03031 USA / www.controlair.com / sales@controlair.com / 603-886-9400 / FAX 603-889-1844
An ISO 9001:2015 Registered Company

8/19/20