

**Pilot Operated Regulator
1/2", 3/4" and 1" Port Sizes**

- Designed for systems that require pressure regulation at an inaccessible location.
- A pilot regulator (ordered separately) controls the outlet pressure of the pilot operated regulator.
- For general purpose applications, order an R72 or R07 pilot regulator.
- For precision applications, order an R40, R41, or 11-104 pilot regulator.
- Constant bleed feature provides quick maximum sensitivity to system changes


Pilot Operated Regulator Ordering Information

Models listed include relieving diaphragm and PTF threads. Also order a pilot regulator.

Port Size	Model	Flow* scfm (dm ³ /s)	Weight lb (kg)
1/2"	11-008-130	70 (33)	1.6 (0.7)
3/4"	11-008-009	110 (52)	4.9 (2.2)
1"	11-008-110	180 (85)	4.6 (2.1)

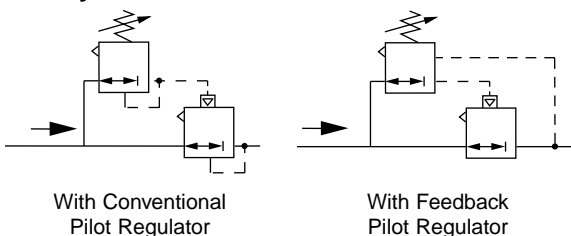
* Typical flow with a conventional pilot at 150 psig (10.3 bar) inlet pressure, 100 psig (6.9 bar) set pressure and a droop of less than 5 psig (0.35 bar) from set.

Alternative Models

Threads	Substitute
PTF	0
ISO G parallel	8
ISO G Rc	9

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With 150 psig (10 bar) Gauge	Substitute
1/2" main ports	142
3/4" main ports	021
1" main ports	122

ISO Symbols

Feedback Pilot Regulator Warning

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

See Section ALE-24 for Accessories



Technical Data

Fluid: Compressed air

Inlet pressure range: 10 psig (0.7 bar) to 400 psig (27.6 bar)*

* For best performance, inlet pressure should be at least 10 psig (0.7 bar) greater than the desired regulated pressure, but must not exceed the specified maximum.

Operating temperature: 0° to 175°F (-20° to 80°C)**

** Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Typical flow with a conventional pilot regulator at 150 psig (10.3 bar) inlet pressure, 100 psig (6.9 bar) set pressure, and a droop of less than 5 psig (0.35 bar) from set:

1/2" ports: 70 scfm (33 dm³/s)

3/4" ports: 110 scfm (52 dm³/s)

1" ports: 180 scfm (85 dm³/s)

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure: 0.34 scfm (0.16 dm³/s)†

†Maximum bleed rate occurs under dead-end (no flow) conditions.

Port sizes

Main: 1/2", 3/4", 1"

Gauge: 1/8"

Pilot: 1/4"

Thread type

Main and gauge ports: PTF, ISO G, or ISO Rc

Pilot port: PTF with PTF main ports, ISO G with ISO G and ISO Rc main ports

Materials

Body: Zinc

Bonnet: Aluminum

Bottom plug:

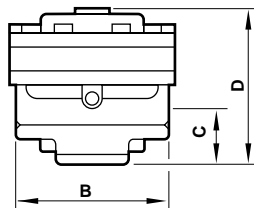
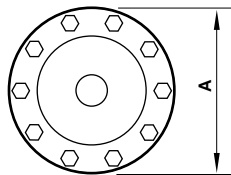
1/2", 3/4 ports: Brass

1" ports: Glass filled nylon

Valve: Brass

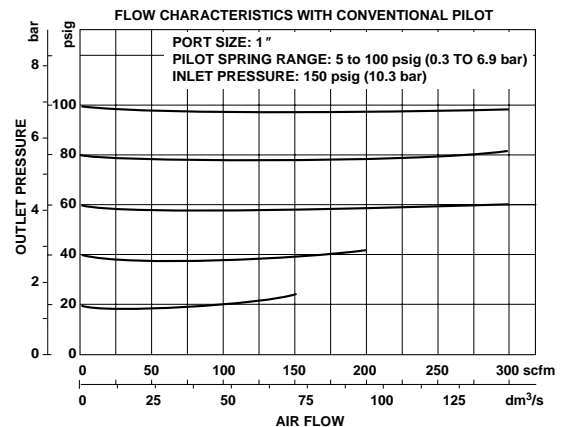
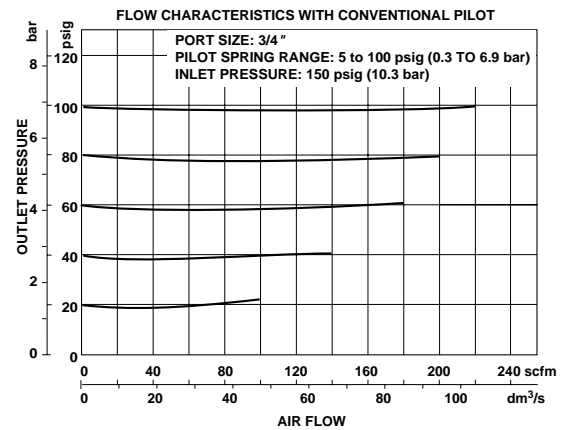
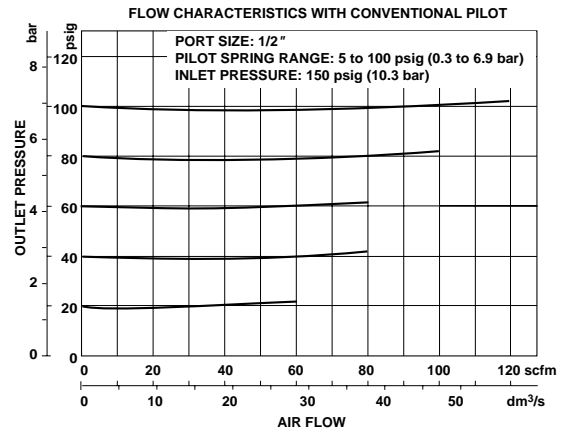
Elastomers: Nitrile

All Dimensions in Inches (mm)



Port Size	A	B	C	D
1/2"	3.34 (85)	3.38 (86)	1.50 (38)	3.30 (84)
3/4", 1"	4.91 (125)	4.63 (118)	1.69 (43)	4.36 (111)

Typical Performance Characteristics



Service Kits

Type	Part number
1/2" ported units	695-01
3/4", 1" ported units	696-01

Kit contains diaphragm, valve, and all o-rings.