

# Full-Size VANGUARD Modular Internally Piloted Precision Regulators

## IR100 Models Port Sizes: 1/4, 3/8, 1/2, 3/4



Model Shown: R100-6G

- ◆ Modular or inline mounting.
- ◆ Self-relieving diaphragm design.
- ◆ Easy finger adjustment. No overshoot or undershoot when adjusting.
- ◆ Constant air bleed for accuracy.
- ◆ Repeatability  $\pm 0.5$  psi ( $\pm 0.034$  bar).
- ◆ Pressure gauge.
- ◆ NPTF port threads; optional SAE or BSPP threads.

### SPECIFICATIONS

**Ambient/Media Temperature:**

40° to 125°F (4° to 52°C).

**Body and Dome:** Zinc.

**Bonnet and Knob:** Acetal.

**Constant Air Bleed Rate:** 0.18 – 0.33 scfm at 80 psi secondary pressure

**Fluid Media:** Compressed air.

**Inlet Pressure:** 250 psig (17 bar) maximum.

**Outlet Pressure:** Adjustable 15 – 200 psig (1 – 14 bar).

**Pressure Gauge:** 0 to 200 psig (14 bar); 1/4 NPT gauge ports front and rear.

**Panel Mounting:** 1-3/16 (30 mm) hole required.

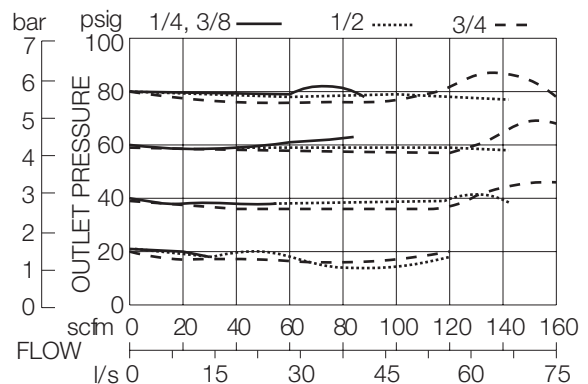
**Seals:** Nitrile.

**Self-relieving**

**Valve:** Brass.

### FLOW CHART

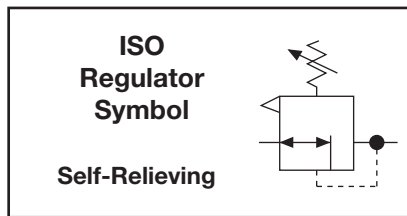
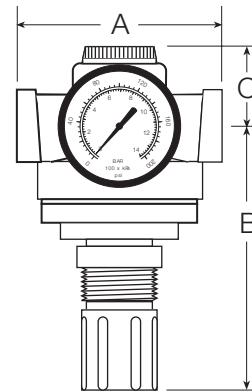
Inlet Pressure: 100 psig (7 bar)



**DIMENSIONS inches (mm)**

A	B	C	Depth †	Weight † lb (kg)
3.5 (89)	4.2 (106)	1.3 (33)	2.8 (71)	2.06 (0.92)

† Less gauge.



**ORDERING INFORMATION**

Change the letters in the sample model number below to specify the regulator you want.

**IR100 - 2 Y G W**

**PORT SIZE**

- 1/4 NPTF..... 2
- 3/8 NPTF..... 3
- 1/2 NPTF..... 4
- 3/4 NPTF..... 6
- 9/16-18 UNF SAE ..... S6
- 3/4-16 UNF SAE ..... S8
- 7/8-14 UNF SAE ..... S10

**PORT TYPE**

- NPTF Threads ..... Leave Blank
- BSPP threads ..... W

**OPTIONS (More than one option can be chosen)**

- Delete gauge ..... Leave Blank
- 0-160 PSI Gauge ..... G
- Plastic mounting nut ..... P
- Metal mounting nut..... PN
- Hex plastic mounting nut ..... PE

**OPTIONS (More than one option can be chosen)**

- None.....Leave Blank
- 1.75-inch (4.5 cm) diameter  
adjusting knob with  
removable locking key.....B
- Springs: (15-200 psig standard)  
For optimum performance operating  
pressure should fall approximately in  
the middle of the spring range.
- 15-250 psig (1-17 bar) .....H
- 15-100 psig (1-7 bar) .....L

**MOUNTING BRACKETS**

See page 276.