

# High-Flow VANGUARD Internally Piloted Precision Regulators

# IR180M Models Port Sizes: 3/4, 1, 1-1/4, 1-1/2



Model Shown: IR180M-6G

- ◆ Inline mounting.
- ◆ Diaphragm-type design.
- ◆ Self-relieving.
- ◆ Constant air bleed for accuracy.
- ◆ Repeatability  $\pm 0.5$  psi ( $\pm 0.034$  bar).
- ◆ Pressure gauge.
- ◆ NPTF port threads; optional BSPP threads.

## SPECIFICATIONS

**Ambient/Media Temperature:**

40° to 175°F (4° to 79°C).

**Body:** Aluminum.

**Bonnet and Knob:** Acetal.

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

**Dome:** Zinc.

**Fluid Media:** Compressed air.

**Inlet Pressure:** 300 psig (21 bar) maximum.

**Outlet Pressure:**

Adjustable 15 to 200 psig (1 to 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.

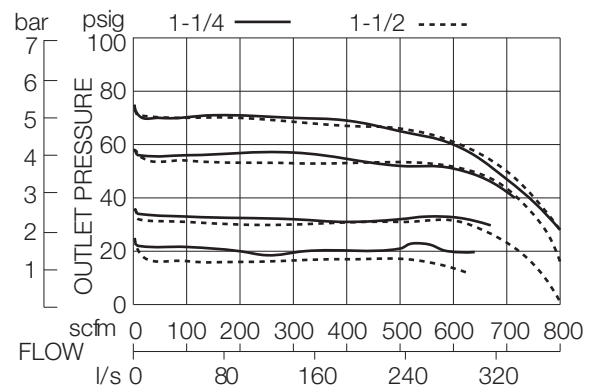
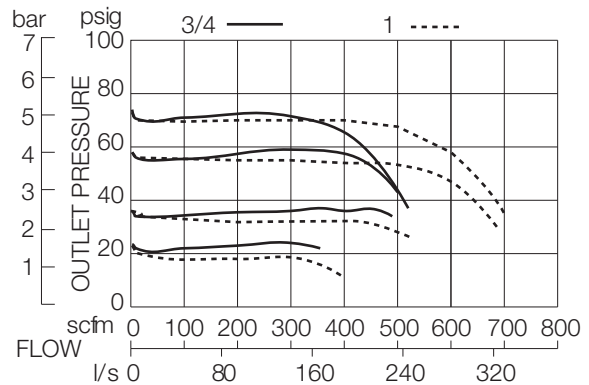
**Self-relieving**

**Valve:** Aluminum.

**Valve Cap:** Nylon.

## FLOW CHART

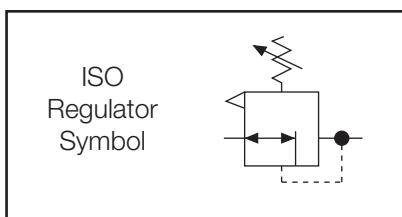
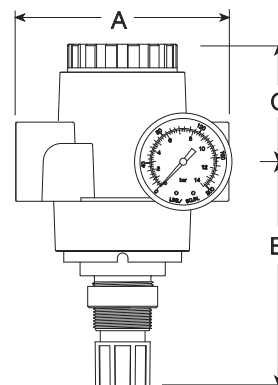
Inlet Pressure: 91 psig (6.3 bar)



**DIMENSIONS** inches (mm)

Ports	A	B	C	Depth †	Weight † lb (kg)
3/4 1	4.4 (111)	4.6 (112)	2.4 (62)	2.8 (71)	2.0 (0.91)
1-1/4 1-1/2	4.9 (124)	4.9 (125)	2.1 (54)	2.8 (71)	2.38 (1.08)

† Less gauge.



**ORDERING INFORMATION**

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

**IR180M - 6 Y G W**

**PORT SIZE**

- 3/4 NPTF ..... 6
- 1 NPTF ..... 8
- 1-1/4 NPTF ..... 10
- 1-1/2 NPTF ..... 12

**PORT TYPE**

- NPTF threads ..... Leave Blank
- BSPF threads ..... W

**OPTIONS** (More than one option can be chosen. Add in alphabetical order)

- Delete gauge ..... Leave Blank
- 0-200 PSI Gauge ..... G
- Plastic mounting nut ..... P
- Metal mounting nut ..... PN
- Hex plastic mounting nut ..... PE

**OPTIONS** (More than one option can be chosen. Add in alphabetical order)

- 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 320.

VANGUARD High-Flow Internally Piloted Precision Regulator, IR180M