

High-Flow VANGUARD Internally Piloted Precision Regulators

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



Model Shown: IR180M-6G

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

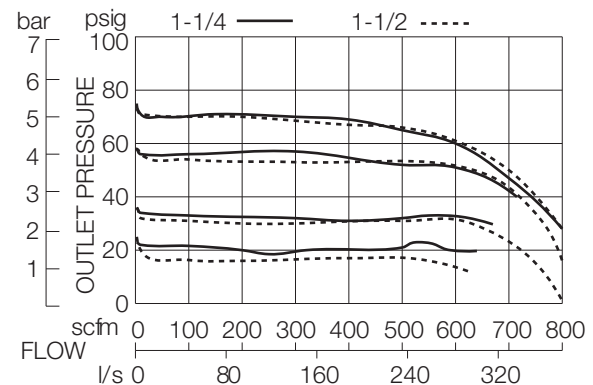
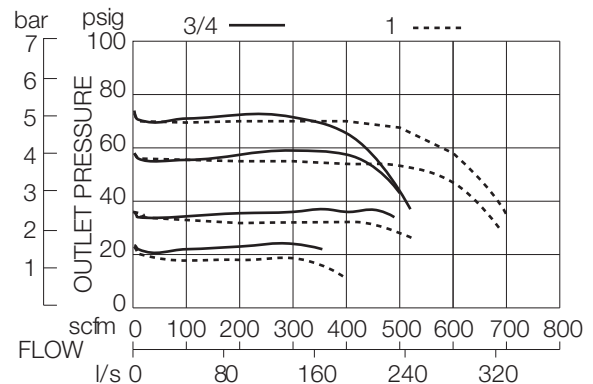
Valve: Aluminum.

Valve Cap: Nylon.

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

FLOW CHART

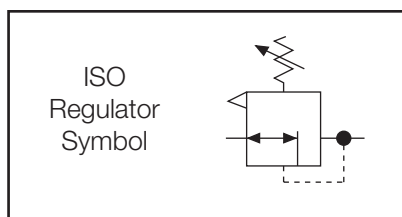
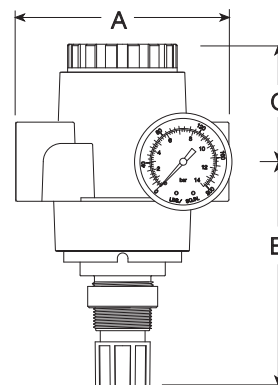
Inlet Pressure: 91 psig (6.3 bar)



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
- 1-1/16-12 UNF SAE S12
- 1-5/16-12 UNF SAE S16
- 1-5/8-12 UNF SAE S20
- 1-7/8-12 UNF SAE S24

PORT TYPE

- NPTF threads Leave Blank
- BSP 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