

High-Flow VANGUARD General Purpose Regulators

R180 Models Port Sizes: 1-1/4, 1-1/2



Model Shown: R180-10G

- ◆ Inline mounting.
- ◆ Piston-type design.
- ◆ Self-relieving; non-relieving optional.
- ◆ Pressure gauge.
- ◆ Pressure adjustment locking key.
- ◆ **NPTF** port threads; optional **SAE** or **BSPP** threads.

SPECIFICATIONS

Ambient/Media Temperature:

40° to 175°F (4° to 79°C).

Body: Aluminum.

Dome:

Nylon; aluminum with optional 0-150 psig spring.

Fluid Media: Compressed air.

Inlet Pressure: 300 psig (21 bar) maximum.

Knob: Acetal

Outlet Pressure: Adjustable up to 100 psig (7 bar).

Pressure Adjustment Locking Key: Removable.

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

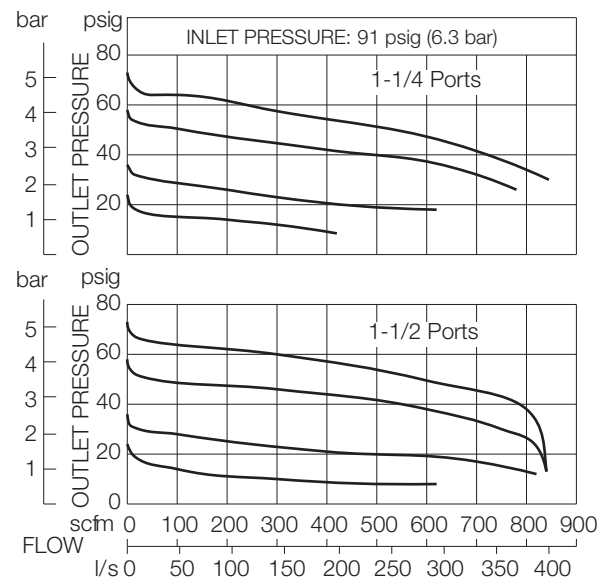
Panel Mounting: 2-1/16 inch (52 mm) hole required.

Seals: Nitrile.

Valve: Aluminum.

Valve Cap: Nylon.

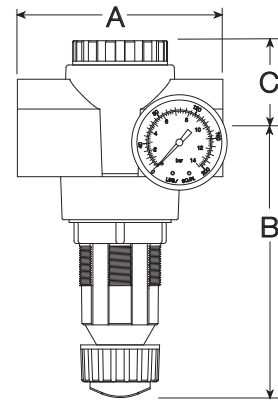
FLOW CHARTS



DIMENSIONS inches (mm)

				Weight †
A	B *	C **	Depth †	lb (kg)
4.9 (124)	6.4 (162)	2.1 (54)	2.8 (71)	2.5 (1.14)

* Dome removal clearance: add 0.63 (16).
 ** Cap removal clearance: add 0.65 (16.5).
 † Less gauge.



ORDERING INFORMATION

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

R180 - 10 Y G W

PORT SIZE

- 1-1/4 NPTF 10
- 1-1/2 NPTF 12
- 1-5/8-12 UNF SAE S20
- 1-7/8-12 UNF SAE S24

PORT TYPE

- NPTF threads Leave Blank
- BSPP threads W

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

- None Leave Blank
- 0-200 psig Gauge G
- Mounting nut P

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

- None.....Leave Blank
- Non-relieving A
- Internal bypass–reverse flow E
- Springs: (0-100 psig standard)

For optimum performance operating pressure should fall approximately in the middle of the spring range.

- 0-150 psig (0-10 bar) H**
- 0-50 psig (0-3.4 bar) L

- Metal Dome MD
- Limit maximum psig setting M*
- Tee handle..... T

* Insert maximum limited pressure.
 ** H option spring includes metal dome.

MOUNTING BRACKETS
 See page 320.

VANGUARD High-Flow Regulator, R180 Series