

High-Capacity VANGUARD General Purpose Regulators

R180M Models Port Sizes: 3/4, 1



Model Shown: R180M-6G

- ◆ 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.

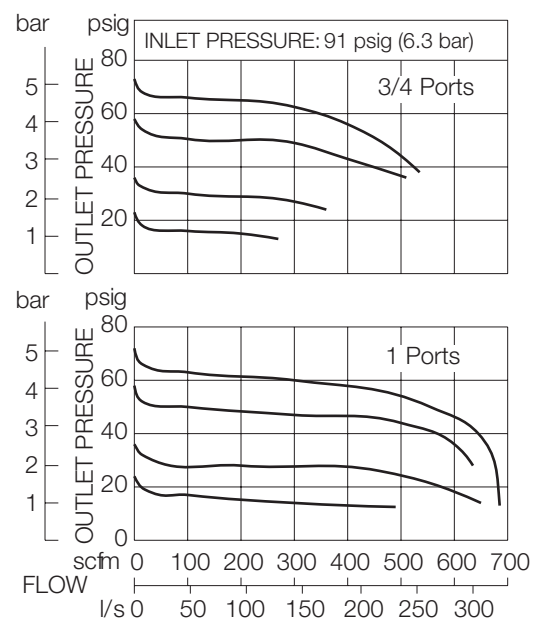
Panel Mounting: 2-1/16 inch (52 mm) hole required.

Seals: Nitrile.

Valve: Brass.

Valve Cap: Nylon.

FLOW CHARTS



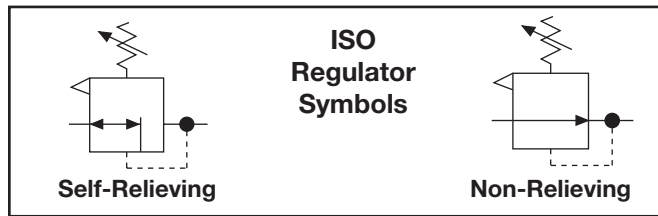
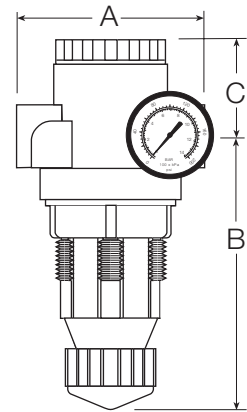
DIMENSIONS inches (mm)

A	B *	C **	Depth †	Weight † lb (kg)
4.4 (111)	6.1 (154)	2.4 (62)	2.8 (71)	2.19 (0.99)

* 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.

R180M - 6 Y G W

PORT SIZE

- 3/4 NPTF..... 6
- 1 NPTF 8
- 1-1/16-12 UNF SAE S12
- 1-5/16-12 UNF SAE S16

PORT TYPE

- NPTF Threads Leave Blank
- BSPP threads W

OPTIONS (More than one option can be chosen)

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

OPTIONS (More than one option can be chosen)

- 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
- 0-20 psig (0-1.4 bar)..... L20

- Remove adjusting key 37-63 JJ
- 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 276.

High-Capacity 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.

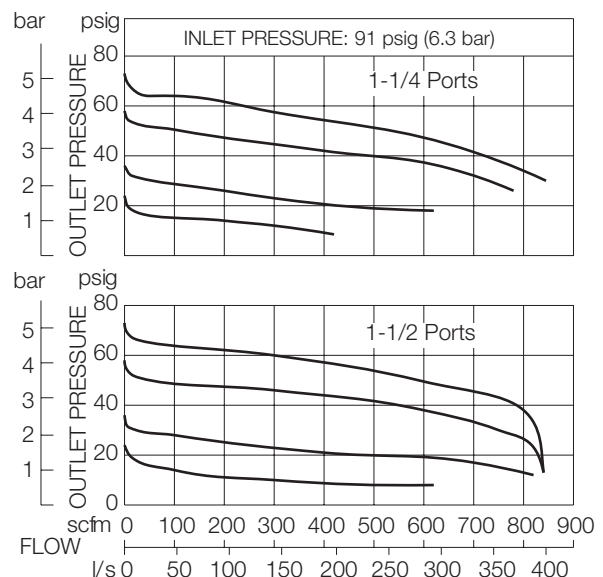
Panel Mounting: 2-1/16 inch (52 mm) hole required.

Seals: Nitrile.

Valve: Brass.

Valve Cap: Nylon.

FLOW CHARTS



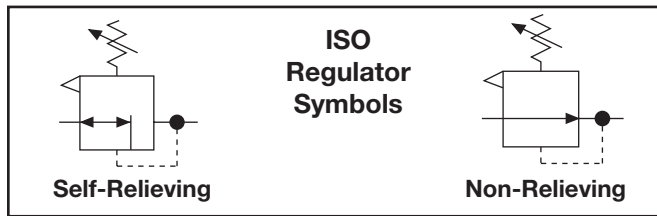
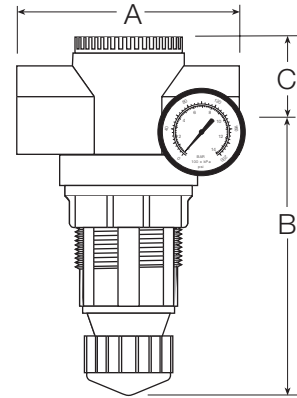
DIMENSIONS inches (mm)

A	B *	C **	Depth †	Weight † 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
- BSPB threads W

OPTIONS (More than one option can be chosen)

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

OPTIONS (More than one option can be chosen)

- 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

Remove adjusting keyJJ

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 276.