

# High-Flow 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 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.

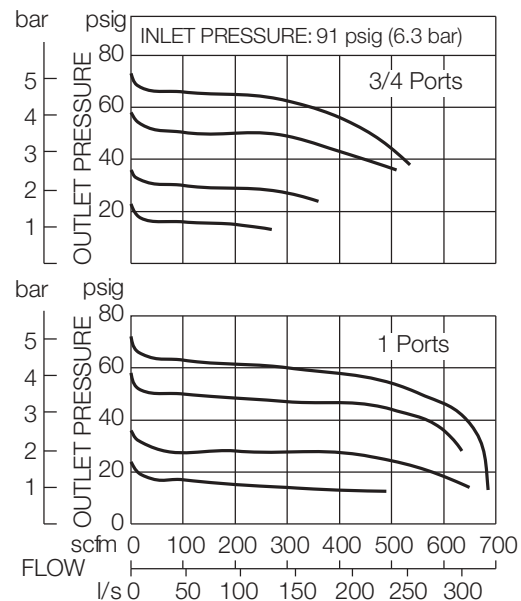
**Panel Mounting:** 2-1/16 inch (52 mm) hole required.

**Seals:** Nitrile.

**Valve:** Aluminum.

**Valve Cap:** Nylon.

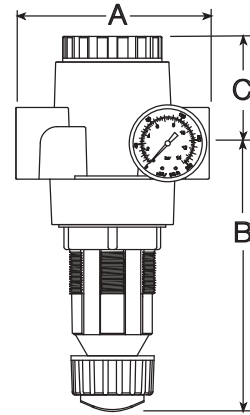
## FLOW CHARTS



**DIMENSIONS** inches (mm)

				Weight †
A	B *	C **	Depth †	lb (kg)
4.4 (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

**PORT TYPE**

- NPTF threads ..... Leave Blank
- BSP 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
- 0-20 psig (0-1.4 bar)..... L20

- 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.

# 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 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.

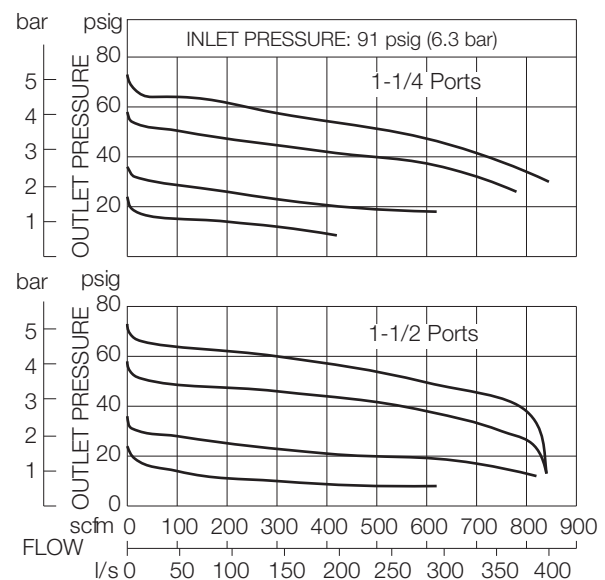
**Panel Mounting:** 2-1/16 inch (52 mm) hole required.

**Seals:** Nitrile.

**Valve:** Aluminum.

**Valve Cap:** Nylon.

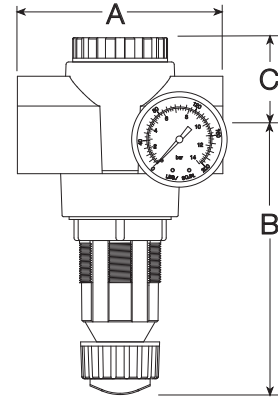
## FLOW CHARTS



**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

**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**