

# 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.

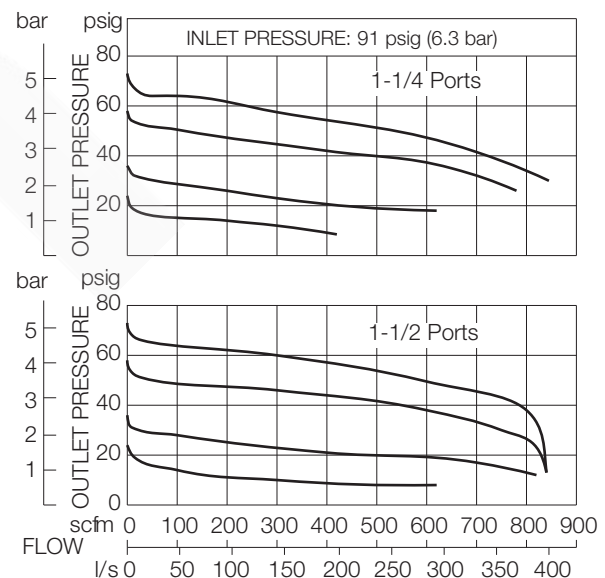
**Panel Mounting:** 2-1/16 inch (52 mm) hole required.

**Seals:** Nitrile.

**Valve:** Aluminum.

**Valve Cap:** Nylon.

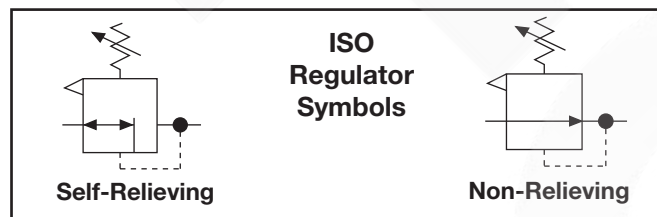
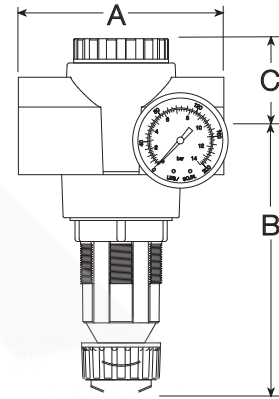
## FLOW CHARTS



### 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.