

Full-Size VANGUARD Modular Externally Piloted Regulators

PR100 Models Port Sizes: 1/4, 3/8, 1/2, 3/4



Model Shown: PR100-6G

- ◆ Modular or inline mounting.
- ◆ Self-relieving diaphragm design.
- ◆ Pressure gauge.
- ◆ **NPTF** port threads; optional **SAE** or **BSPP** threads.

Note: Pilot (control) regulators (order separately).

- ◆ General purpose applications order R56M-2, R60-2, R67-2, R100-2, or R380-3
- ◆ Precision applications order IR100-2, R57M-2, IR380-3 or ER valve

SPECIFICATIONS

Ambient/Media Temperature:

40° to 175°F (4° to 79°C).

Body: Zinc.

Dome: Zinc.

Fluid Media: Compressed air.

Inlet Pressure: 300 psig (21 bar) maximum.

Outlet Pressure: Adjustable 0 – 200 psig (0 – 14 bar).

Pilot Ports: 1/4 NPTF

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

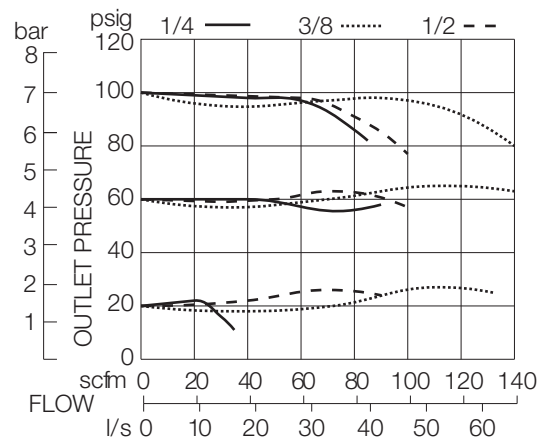
Seals: Nitrile.

Valve: Brass.

Valve Cap: Nylon.

FLOW CHARTS

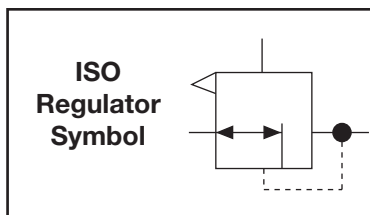
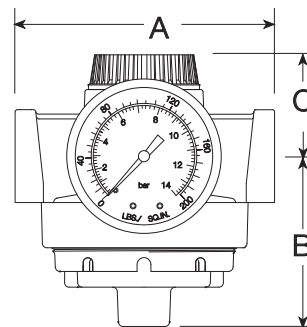
Inlet Pressure: 100 psig (7 bar)



DIMENSIONS inches (mm)

| A | B | C | Depth † | Weight † |
|-------------|-------------|-------------|-------------|----------------|
| | | | | lb (kg) |
| 3.5 (89) | 2.4 (62) | 1.3 (33) | 2.8 (71) | 2.06 (0.92) |

† Less gauge.



ORDERING INFORMATION

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

NOTE: Order a pilot operator such as **R55-2**, **R56-2**, or **IR100-2** separately.

PR100 - 2 Y G W

PORT SIZE

- 1/4 NPTF..... 2
- 3/8 NPTF..... 3
- 1/2 NPTF..... 4
- 3/4 NPTF..... 6
- 9/16-18 UNF SAE S6
- 3/4-16 UNF SAE S8
- 7/8-14 UNF SAE S10

PORT TYPE

- NPTF threads Leave Blank
- BSP threads W

OPTION

- None Leave Blank
- 0-200 PSI Gauge G

OPTION

- None Leave Blank
- Non-relieving A

MOUNTING BRACKETS
See page 320.

Full-Size VANGUARD Modular External Relief Piloted Regulator

PRH100 Models Port Sizes: 1/4, 3/8, 1/2, 3/4



Model Shown: PRH100-6G

SPECIFICATIONS

Ambient/Media Temperature:

40° to 175°F (4° to 79°C).

Body: Zinc.

Dome: Zinc.

Fluid Media: Compressed air.

Inlet Pressure: 300 psig (21 bar) maximum.

Outlet Pressure: Adjustable 0 – 200 psig (0 – 14 bar).

Pilot Ports: 1/4 NPTF

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

Seals: Nitrile; optional Viton seals.

Valve: Brass.

Valve Cap: Nylon.

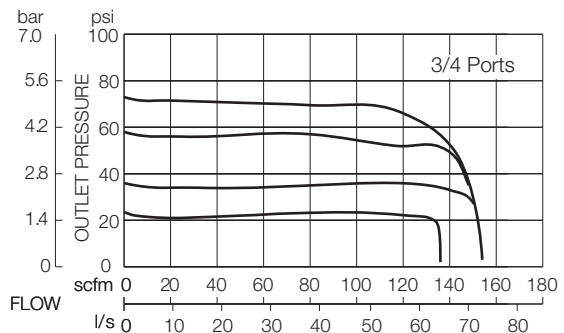
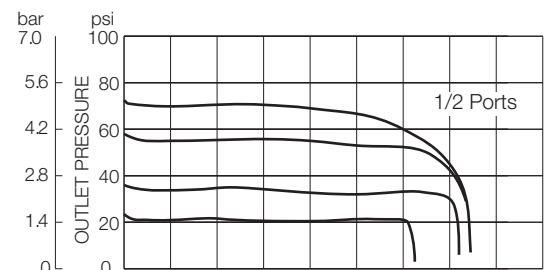
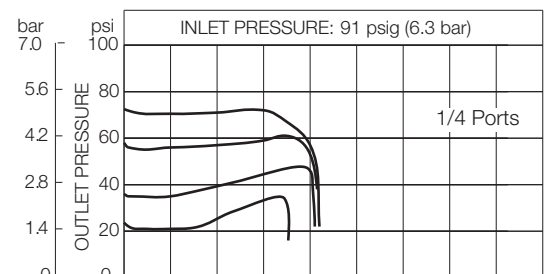
External relief piloted regulators separate control air from exhaust air.

- ◆ Modular or inline mounting.
- ◆ Diaphragm-type design.
- ◆ Self-relieving.
- ◆ Pressure gauge.
- ◆ **NPTF** port threads; optional **SAE** or **BSPP** threads.

Note: Pilot (control) regulators (order separately).

- ◆ General purpose applications order R56M-2, R60-2, R67-2, R100-2, or R380-3
- ◆ Precision applications order IR100-2, R57M-2, IR380-3 or ER valve

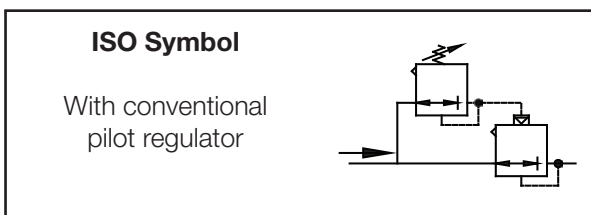
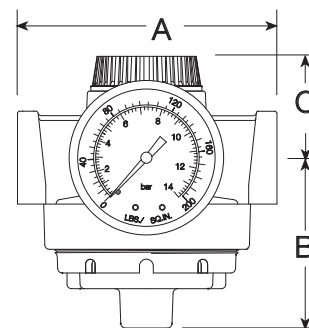
FLOW CHARTS



DIMENSIONS inches (mm)

| A | B | C | Depth † | Weight † lb (kg) |
|-------------|-------------|-------------|-------------|---------------------|
| 3.5 (89) | 2.4 (62) | 1.3 (33) | 2.8 (71) | 2.06 (0.92) |

† Less gauge.



ORDERING INFORMATION

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

NOTE: Order a pilot operator such as **R55-2**, **R56-2**, or **IR100-2** separately.

PRH100 - 2 Y G W

PORT SIZE

- 1/4 NPTF..... 2
- 3/8 NPTF..... 3
- 1/2 NPTF..... 4
- 3/4 NPTF..... 6
- 9/16-18 UNF SAE S6
- 3/4-16 UNF SAE S8
- 7/8-14 UNF SAE S10

PORT TYPE

- NPTF threads Leave Blank
- BSP threads W

OPTION

- None Leave Blank
- 0-200 PSI Gauge G

OPTION

- None Leave Blank
- Viton seals..... V

MOUNTING BRACKETS
See page 320.

Full-Size VANGUARD High-Relief Externally Piloted Regulator

HPR100 Models Port Sizes: 1/4, 3/8, & 1/2



Model Shown: HPR100-4G

SPECIFICATIONS

Ambient/Media Temperature:

0° to 158°F (-18° to 70°C).

Body and Dome: Aluminum.

Seals: Nitrile.

Valve: Brass.

Valve Cap: Glass filled Nylon.

Fluid Media: Compressed air.

Inlet Pressure:

10 psig (0.7 bar) minimum.

400 psig (27.6 bar) maximum.

Outlet Pressure: 0 to 250 psig (0 to 17.3 bar).

Pilot Ports: 1/4 NPTF.

Pressure Gauge: 0 to 200 psig (0 to 14 bar);

Optional 0 to 600 psig (0 to 41.4 bar).

1/4-NPTF Inlet/Outlet ports, 1/4-NPTF gauge ports.

3/8-NPTF Inlet/Outlet ports, 3/8-NPTF gauge ports.

1/2-NPTF Inlet/Outlet ports, 1/2-NPTF gauge ports.

Designed for systems that require high-relief and pressure regulation. Can be installed in an inaccessible location with a control regulator in an accessible location.

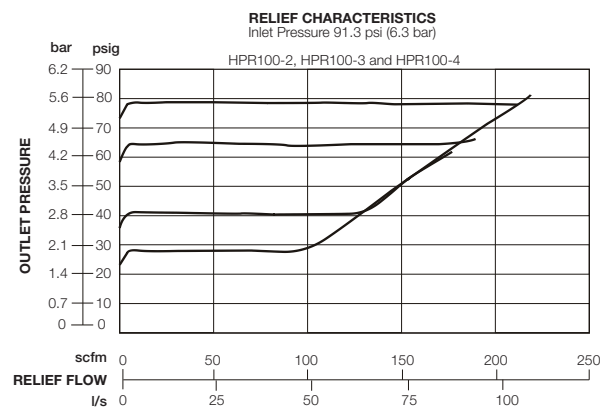
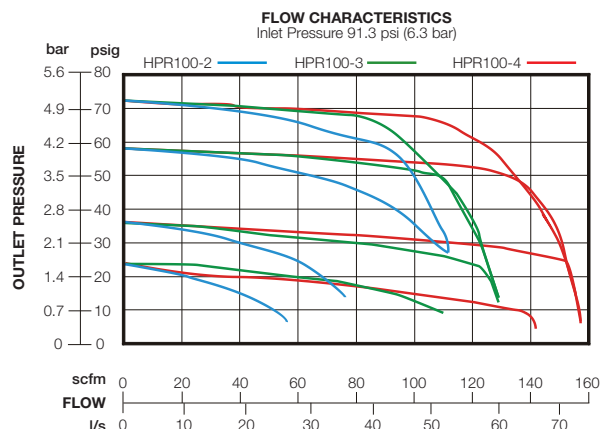
- ◆ Inline mounting.
- ◆ Diaphragm-type design.
- ◆ Optional pressure gauges.
- ◆ Flow rates exceed 150 scfm.
- ◆ NPTF port threads; optional BSPP threads.
- ◆ High relief characteristics up-to 200 scfm.

Note: Pilot (control) regulators (ordered separately).

◆ General purpose applications order **R56M-2, R60-2, R67-2, R100-2, or R380-3**

◆ Precision applications order **IR100-2, R57M-2, IR380-3 or ER valve.**

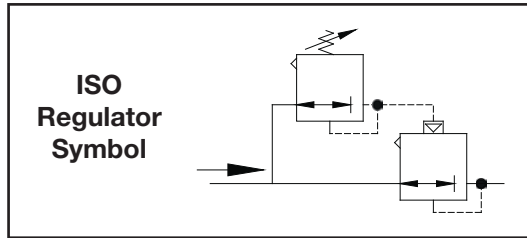
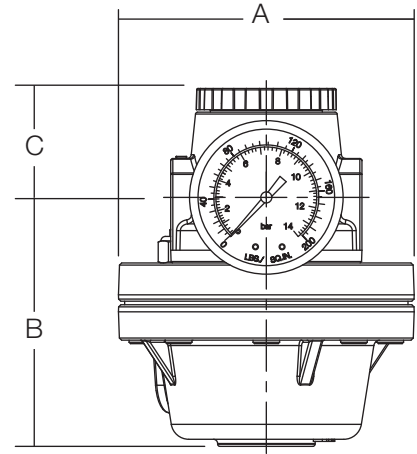
FLOW CHARTS



DIMENSIONS inches (mm)

| A | B | C | Depth † | Weight † |
|-----------------|----------------|----------------|---------------|---------------|
| | | | | lb (kg) |
| 4.18 (106.0) | 3.52 (89.3) | 1.54 (39.1) | 4.18 (106) | 4.84 (2.2) |

† Less gauge.



ORDERING INFORMATION

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

NOTE: Order a pilot operator such as **R55-2**, **R56-2**, or **IR100-2** separately.

HPR100 - 3 G W

PORT and GAUGE PORT SIZE

- 1/4-NPTF Inlet/Outlet 2
- 1/4-NPTF gauge ports.
- 3/8-NPTF Inlet/Outlet 3
- 3/8-NPTF gauge ports.
- 1/2-NPTF Inlet/Outlet 4
- 1/2-NPTF gauge ports.

PORT TYPE

- NPTF threads Leave Blank
- BSPP threads W

OPTION

- None Leave Blank
- 0-200 PSI Gauge * G
- 0-600 PSI Gauge * G1

* = Reducing bushings are used in any gauge ports other than 1/4". Port size 3/8 and 1/2 will require bushings. (see accessories page for gauge kits with bushings).

High-Flow VANGUARD High-Relief Externally Piloted Regulator, HPR180