PRESSURE GENERATION
AND CONTROL SYSTEMS

Found in the JM Catalog and at www.jmtest.com/pressurebox
BENEFITS

Benefits of owning a PGS or PCS

1. **CONVENIENT**
   Compact pressure source for use in the field

2. **INTEGRATED**
   Eliminates using hand pumps for precision control

3. **ACCESSIBLE**
   Easy to use regulation and control

4. **MULTIPURPOSE**
   All-in-one system

5. **COLLABORATIVE**
   Can be used with existing pressure calibrator/gauge

"Our pressure generators are an excellent addition to your compressed instrument gas systems such as plant air, nitrogen systems, or cylinders."
PCS AND PGS MODELS

Self-contained pressure generators and controllers for pressures up to 3000 PSI

PCS-01
Pressure Controlling System

PGS-01
Pressure Generating System

PGS-03
Pressure Generating System

PGS-03-IS33
Pressure Generating System with Pressure Calibrator

PGS-04
Pressure Generating System
PCS-01
Pressure Controlling System

- **0–3000 PSI PRESSURE REGULATOR**
  For pressure control to target pressure

- **INPUT PORT LOCATED BEHIND REGULATOR**
  Supply port for pressure to be regulated

- **VOLUME CONTROLLER**
  For fine adjustment of pressure

- **OUTPUT PORTS**
  For regulated pressure output

- **SYSTEM VENT**
  For venting pressure off entire internal system
PGS-01
Pressure Generating System

- **0–2000 PSI PRESSURE REGULATOR**
  For pressure control to target pressure

- **FILL PORT**
  Input port for filling internal single cylinder

- **INTERNAL CYLINDER PRESSURE GAUGE**
  Displays pressure of internal cylinder

- **VOLUME CONTROLLER**
  For fine adjustment of pressure

- **INTERNAL CYLINDER VALVE**
  Open/close valve for internal cylinder

- **OUTPUT PORTS**
  For pressure output

- **SYSTEM VENT**
  For venting regulated pressure or empty internal cylinder

- **INTERNAL CYLINDER**
  For storage of inert gas up to 2,000 PSI
0-3000 PSI PRESSURE REGULATOR
For pressure control to target pressure

FILL PORT
Input port for filling internal single cylinder

INTERNAL CYLINDER PRESSURE GAUGE
Displays pressure of internal cylinder currently being used

VOLUME CONTROLLER
For fine adjustment of pressure

INTERNAL CYLINDER VALVE
Open/close valves for selecting between the internal cylinders

OUTPUT PORTS
For pressure output

SYSTEM VENT
For venting regulated pressure or empty internal cylinders

INTERNAL CYLINDER
For storage of inert gas up to 3,000 PSI
**PGS-03-IS33**

Pressure Generating System with Pressure Calibrator

- **BUILT IN CRYSTAL DUAL PRESSURE CALIBRATOR**
  The Crystal pressure calibrator is easily removable

- **LOW PRESSURE SIDE – 0-300 PSI**
  Pressure supplied by a built in hand pump

- **HIGH PRESSURE SIDE – 0-3000 PSI**
  Pressure supplied by the two internal pressure cylinders

- **AUTO PRESSURE RELIEF**
  Installed on both sections

- **2 INTERNAL CYLINDERS**
  For extended pressure use
0-3000 PSI PRESSURE REGULATOR
For pressure control to target pressure

FILL PORT
Input port for filling internal single cylinder

CYLINDER SELECTOR VALVE
For selecting between the two internal cylinders

INTERNAL CYLINDER PRESSURE GAUGE
Displays pressure of internal cylinder currently being used

VERNIER
For fine adjustment of pressure

HIGH PRESSURE SUPPLY VALVE
Supplies pressure to pressure regulator

OUTPUT PORT
For pressure output

SYSTEM VENT & PORT VENT VALVES
For venting regulated pressure or empty cylinders
PGS-03-IS33

Low Pressure Side Components

- **VERNIER**
  For fine adjustment of pressure

- **HAND PUMP**
  For supplying pressure up to 30 PSI

- **OUTPUT PORT**
  For pressure output

- **SYSTEM VENT & PORT VENT VALVES**
  For venting pressure
PGS-04
Pressure Generating System

- **PGS-03-IS33 REPLICA**
  Only without the built in pressure calibrator

- **USE ANY PRESSURE CALIBRATOR OR GAUGE**
  Can be used with ANY pressure calibrator or gauge

- **LOW PRESSURE SIDE – 030PSI**
  Pressure supplied by a built in hand pump

- **HIGH PRESSURE SIDE – 0–3000 PSI**
  Pressure supplied by the two internal pressure cylinders

- **AUTO PRESSURE RELIEF**
  Installed on both sections

- **2 INTERNAL CYLINDERS**
  For extended pressure use
## Model Comparison

<table>
<thead>
<tr>
<th>Model / Sku Number</th>
<th>2000 Psig Maximum Output</th>
<th>3000 Psig Maximum Output</th>
<th>30 Psig Hand Pump Output</th>
<th>1 Internal Pressure Cylinder</th>
<th>2 Internal Pressure Cylinder</th>
<th>Fine/Coarse Pressure Control</th>
<th>Built-in Pressure Calibrator</th>
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All PGS and PCS models are available to own, rent, and demo.

All models include a detailed operations manual and an optional Ralston kit for easy and quick finger tight connectivity of external components.

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