**OPERATIONAL BENEFITS**

1. Easy mounting: saves on installation costs in comparison with inline regulators.
2. Compact all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.

**Sandwich pressure regulator with air pilot adjust**

**HOW TO ORDER**

**REGULATORS FOR "PLUG-IN" VALVES**

<table>
<thead>
<tr>
<th>Gage</th>
<th>Regulator A end Single pressure</th>
<th>Regulator B end Single pressure</th>
<th>Regulator A * end with by-pass end plate B end</th>
<th>Regulator B * end with by-pass end plate A end</th>
<th>Regulator * both ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage port only (plugged)</td>
<td>PR93A-DAAA</td>
<td>PR93A-DBAA</td>
<td>PR93A-DCAA</td>
<td>PR93A-DDAA</td>
<td>PR93A-DEAA</td>
</tr>
<tr>
<td>Gage with face perpendicular to manual operator</td>
<td>PR93A-DABA</td>
<td>PR93A-DBBA</td>
<td>PR93A-DCBA</td>
<td>PR93A-DDBA</td>
<td>PR93A-DEBA</td>
</tr>
<tr>
<td>Gage with face parallel to manual operator</td>
<td>PR93A-DACA</td>
<td>PR93A-DBCA</td>
<td>PR93A-DCCA</td>
<td>PR93A-DDCA</td>
<td>PR93A-DECA</td>
</tr>
</tbody>
</table>

**REGULATORS FOR "NON PLUG-IN" VALVES**

<table>
<thead>
<tr>
<th>Gage</th>
<th>Regulator A end Single pressure</th>
<th>Regulator B end Single pressure</th>
<th>Regulator A * end with by-pass end plate B end</th>
<th>Regulator B * end with by-pass end plate A end</th>
<th>Regulator * both ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage port only (plugged)</td>
<td>PR93A-EAAA</td>
<td>PR93A-EBAA</td>
<td>PR93A-ECAA</td>
<td>PR93A-EDAA</td>
<td>PR93A-EEAA</td>
</tr>
<tr>
<td>Gage with face perpendicular to manual operator</td>
<td>PR93A-EABA</td>
<td>PR93A-EBBA</td>
<td>PR93A-ECBA</td>
<td>PR93A-EDBA</td>
<td>PR93A-EEBA</td>
</tr>
<tr>
<td>Gage with face parallel to manual operator</td>
<td>PR93A-EACA</td>
<td>PR93A-EBCA</td>
<td>PR93A-ECCA</td>
<td>PR93A-EDCA</td>
<td>PR93A-EECA</td>
</tr>
</tbody>
</table>

Note: Above models may be used with either single or double solenoid valves.

* For use with dual pressure valves.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Compressed air, inert gases</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0 to 120 PSI</td>
</tr>
<tr>
<td>Regulating range</td>
<td>0 to 120 PSI</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)</td>
</tr>
<tr>
<td>Filtration</td>
<td>40 µ</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0°F to 120°F (-18°C to +50°C)</td>
</tr>
<tr>
<td>Flow</td>
<td>2.4 Cv</td>
</tr>
</tbody>
</table>

**Spare parts:**
- Regulator end plate kit: R-93004
- Regulator bypass end plate kit: R-93004-01
- Gage kit: N-92006-01 (0 to 160 PSI)
- Pressure regulator (less sandwich block): PR93A-F0AA

### DIMENSIONS

Dimensions shown are metric (mm)

![Diagram of MAC Valves](image-url)
**Sandwich pressure regulator with manual adjust knob**

**OPERATIONAL BENEFITS**
1. Easy mounting: saves on installation costs in comparison with inline regulators.
2. Compact all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.

**HOW TO ORDER**

**REGULATORS FOR “PLUG-IN” VALVES (CODED FOR KNOB ADJUSTMENT)**

<table>
<thead>
<tr>
<th>Gage</th>
<th>Regulator A end</th>
<th>Regulator B end</th>
<th>Regulator A * end with bypass end plate B end</th>
<th>Regulator B * end with bypass end plate A end</th>
<th>Regulator * both ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage port only (plugged)</td>
<td>PR93A-GAAA</td>
<td>PR93A-GBAA</td>
<td>PR93A-GCAA</td>
<td>PR93A-GDAA</td>
<td>PR93A-GEAA</td>
</tr>
<tr>
<td>Gage with face perpendicular to manual operator</td>
<td>PR93A-GABA</td>
<td>PR93A-GBBA</td>
<td>PR93A-GCBA</td>
<td>PR93A-GDBA</td>
<td>PR93A-GEBA</td>
</tr>
<tr>
<td>Gage with face parallel to manual operator</td>
<td>PR93A-GACA</td>
<td>PR93A-GBCA</td>
<td>PR93A-GCCA</td>
<td>PR93A-GDCA</td>
<td>PR93A-GECA</td>
</tr>
</tbody>
</table>

**REGULATORS FOR “NON PLUG-IN” VALVES (CODED FOR KNOB ADJUSTMENT)**

<table>
<thead>
<tr>
<th>Gage</th>
<th>Regulator A end</th>
<th>Regulator B end</th>
<th>Regulator A * end with bypass end plate B end</th>
<th>Regulator B * end with bypass end plate A end</th>
<th>Regulator * both ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage port only (plugged)</td>
<td>PR93A-HAAA</td>
<td>PR93A-HBAA</td>
<td>PR93A-HCAA</td>
<td>PR93A-HDAA</td>
<td>PR93A-HEAA</td>
</tr>
<tr>
<td>Gage with face perpendicular to manual operator</td>
<td>PR93A-HABA</td>
<td>PR93A-HBBA</td>
<td>PR93A-HCBA</td>
<td>PR93A-HDBA</td>
<td>PR93A-HEBA</td>
</tr>
<tr>
<td>Gage with face parallel to manual operator</td>
<td>PR93A-HACA</td>
<td>PR93A-HBCA</td>
<td>PR93A-HCCA</td>
<td>PR93A-HDCA</td>
<td>PR93A-HECA</td>
</tr>
</tbody>
</table>

* For use with dual pressure valves. Note: Regulating range for above models is 0 to 120 PSI. For other ranges, see technical data page.

**OPTIONS**

- Regulator less sandwich block:
  - J Knob
  - C Slotted stem
  - M Slotted stem with locknut

- Other adjustment:
  - A Slotted stem, plug-in
  - B Slotted stem, non plug-in
  - K Slotted stem with locknut, plug-in
  - L Slotted stem with locknut, non plug-in

Note: Above models may be used with either single or double solenoid valves.

Consult “Precautions” page 327 before use, installation or service of MAC Valves.
TECHNICAL DATA

Fluid: Compressed air, inert gases
Pressure range: 0 to 120 PSI
Regulating range: 0 to 120 PSI
Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)
Filtration: 40 µ
Temperature range: 0°F to 120°F (-18°C to +50°C)
Flow: 2.4 Cv

Spare parts:
• Regulator end plate kit: R-93004
• Regulator bypass end plate kit: R-93004-01
• Gage kit 0 – 160 PSI: N-92006-01
• Gage kit 0 – 100 PSI: N-92006-02
• Gage kit 60 PSI: N-92006-03

Option:
• Pressure range: PR93A-xxxA (A 0 to 120 PSI)
  B  0 to 80 PSI
  C  0 to 30 PSI
  D  0 to 120 PSI "A" end, 0 to 80 PSI "B" end
  E  0 to 120 PSI "B" end, 0 to 80 PSI "A" end
  F  0 to 120 PSI "A" end, 0 to 30 PSI "B" end
  G  0 to 120 PSI "B" end, 0 to 30 PSI "A" end
  H  0 to 80 PSI "A" end, 0 to 30 PSI "B" end
  J  0 to 80 PSI "B" end, 0 to 30 PSI "A" end

DIMENSIONS

Dimensions shown are metric (mm)

Consult “Precautions” page 327 before use, installation or service of MAC Valves.
**Pressure regulators**

**Series PR93A**

**Sandwich selector pressure regulator with manual adjust knob**

**OPERATIONAL BENEFITS**

1. Easy mounting: saves on installation costs in comparison with inline regulators.
2. Compact all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.

**HOW TO ORDER**

REGULATORS FOR "PLUG-IN" VALVES (CODED FOR KNOB ADJUSTMENT)

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<tr>
<th>Gage</th>
<th>Select to A port Regulator A end By-pass plate B end</th>
<th>Select to B port Regulator B end By-pass plate A end</th>
<th>Select to A port Reg. both ends A end low press. B end high press.</th>
<th>Select to B port Reg. both ends A end high press. B end low press.</th>
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<tbody>
<tr>
<td>Gage port only (plugged)</td>
<td>PR93A-HPAA</td>
<td>PR93A-HRAA</td>
<td>PR93A-HSAA</td>
<td>PR93A-HTAA</td>
</tr>
<tr>
<td>Gage with face perpendicular to manual operator</td>
<td>PR93A-HPBA</td>
<td>PR93A-HRBA</td>
<td>PR93A-HSBA</td>
<td>PR93A-HTBA</td>
</tr>
<tr>
<td>Gage with face parallel to manual operator</td>
<td>PR93A-HPCA</td>
<td>PR93A-HRCA</td>
<td>PR93A-HSCA</td>
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<td>PR93A-SPAA</td>
<td>PR93A-SPBA</td>
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<td>PR93A-SPBA</td>
<td>PR93A-SPBA</td>
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<td>PR93A-SPCA</td>
<td>PR93A-SPCA</td>
<td>PR93A-SPCA</td>
<td>PR93A-SPCA</td>
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</tbody>
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**Options**

**Regulator less sandwich block**

- **J** Knob
- **C** Slotted stem
- **M** Slotted stem with locknut

**Other adjustment**

- **A** Slotted stem, plug-in
- **B** Slotted stem, non plug-in
- **K** Slotted stem with locknut, plug-in
- **L** Slotted stem with locknut, non plug-in

Note: Above models may be used with either single or double solenoid valves.

Consult "Precautions" page 327 before use, installation or service of MAC Valves.
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### Option:
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  - B 0 to 80 PSI
  - C 0 to 30 PSI
  - D 0 to 120 PSI “A” end, 0 to 80 PSI “B” end
  - E 0 to 120 PSI “B” end, 0 to 80 PSI “A” end
  - F 0 to 120 PSI “A” end, 0 to 30 PSI “B” end
  - G 0 to 120 PSI “B” end, 0 to 30 PSI “A” end
  - H 0 to 80 PSI “A” end, 0 to 30 PSI “B” end
  - J 0 to 80 PSI “B” end, 0 to 30 PSI “A” end

### DIMENSIONS

Dimensions shown are metric (mm)